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ELECTRONIC MAIL

Subject:
Revised Site Characterization Report
Former 51st Street Terminal
Facility ID No. 51-10420
Incident No. 56662
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Date:
November 3, 2022
Revised June 27, 2023

Contact:
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Our ref:
30108678

Dear Ms. Flannery:

Arcadis U.S., Inc. (Arcadis) on behalf of the current property owner, Alliance 51st Street LLC (Alliance), has prepared this revised Site Characterization Report (SCR) for Incident No. 56662, associated with the former aboveground storage tanks (ASTs) located at 1630 South 51st Street in Philadelphia, Pennsylvania (Site or Property) to address the comments in the February 2, 2023 Pennsylvania Department of Environmental Protection (PADEP) disapproval letter (PADEP 2023) of the SCR submitted on November 3, 2022 (Alliance 2022b). This revised SCR has been prepared based on subsequent conference calls with PADEP regarding the completion of the SCR activities and the ongoing Act 2 investigation activities for the Site.

Alliance has decided to close out the AST Case initiated by PBF Logistics Products Terminals LLC when it removed all ASTs at the property. This revised SCR is being submitted to close the AST case; and based on the discussions with PADEP, it focuses only on those constituents of interest (COIs) and investigation activities associated with the ASTs and the petroleum products that were stored in them. As reviewed during the conference calls, the tanks – with the exception of TK-7550 and TK-7551 (PADEP IDs 050A and 051A) – stored Fuel Oil No. 2. TK-7550 and TK-7551 also stored gasoline and diesel fuel in addition to Fuel Oil No. 2. Because gasoline was stored in TK-7550 and TK-7551 as early as 1972, leaded gasoline may have been stored in those ASTs. As such, only the soil and groundwater in the vicinity of TK-7550 and TK-7551 have been evaluated for lead as part of this revised SCR. The concentrations of lead in groundwater associated with TK-7550 and TK-7551 are below the applicable Medium Specific Concentrations (MSCs). Therefore, the groundwater investigation for the ASTs is complete. The lead in the soil and groundwater in the other areas of the Site, as well as the other constituents not associated with the ASTs, will be addressed in the Act 2 case and included in the Act 2 reports. The delineation of all COIs across the entire Site was completed in March 2023.

COIs in the soil that are at concentrations above the applicable MSCs will be addressed with an Environmental Covenant (EC). The EC will also include the sitewide COIs that will be addressed as part of the Act 2 investigation, so that one EC will satisfy both programs.

The February 2, 2023 PADEP disapproval letter (PADEP 2023) of the SCR submitted on November 3, 2022 (Alliance 2022b) identified four deficiencies that needed to be addressed. These deficiencies, with a description of how each is being addressed, are summarized below.

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

   Response: Additional soil samples were collected from location PIPE-29 and boring SB-301 to delineate this benzene exceedance. The results are summarized in this revised SCR.

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

   Response: As discussed above, lead is not a COI associated with the ASTs (TK-1248, TK-4847, TK-2040, TK-2045 and TK-941) since these tanks did not store leaded gasoline. Further, monitoring well MW-9 is located upgradient of TK-7550 and TK-7551. As such, it is not necessary to evaluate the lead concentrations in groundwater from monitoring well MW-9 as part of the revised SCR. The investigation of lead in groundwater from monitoring well MW-9 will be completed as part of the Act 2 investigation, and a separate Act 2 report will be prepared for groundwater when the groundwater monitoring has been completed.

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

   Response: A well survey has been completed and is included in this revised SCR.

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

   Response: An ecological evaluation has been completed and is included in this revised SCR.

BACKGROUND

The Site occupies approximately 12.0 acres in a commercial/industrial area of Philadelphia. Currently, there are approximately 2,100 square feet of improvements: an approximately 1,000-square-foot garage/electrical building, an approximately 750-square-foot guard house, and an approximately 350-

square-foot miscellaneous structure. An oil-water separator system and former tank truck loading area also are present on the Site.

Based on a review of historical documents, the Site appears to have been used as early as 1923 for the storage of lumber by a neighboring cabinet manufacturer. Between 1923 and 1945, a 45,000-square-foot building was constructed in the northeast portion of the Site for the manufacture of cardboard containers. Between 1951 and 1975, 10 ASTs were constructed as part of the operations of the Site as a fuel oil terminal by Allied Oil Co. and later, Hess Oil & Chemical Corporation. The Site was sold in 2009 to Plains Product Terminals LLC. In 2016, PBF Logistics Products Terminals LLC (PBF Logistics) acquired the Site.

In 2021, PBF Logistics closed the ASTs with notice to PADEP. As part of the closure activities, PBF Logistics removed all liquids and sludge from the tanks and lines, and removed the ASTs and lines. After line and tank removal, PBF Logistics sampled soil under the tanks and associated piping. These activities were performed from early August to the end of September 2021. During the closure activities, PBF Logistics identified a release of an unknown quantity of petroleum on August 16, 2021 and notified PADEP of the release on August 17, 2021. The release impacted soil that was subsequently excavated by PBF Logistics. An AST Closure Report was submitted by PBF Logistics to PADEP on December 15, 2021 (PBF Logistics 2021).

Alliance purchased the site property in December 2021 from PBF Logistics. On February 9, 2022, Alliance submitted a Notice of Intent to Remediate (NIR) under the Act 2 Program to obtain a release of liability for the COIs associated with the previous operations of the ASTs and potentially other COIs (Alliance 2022a). Subsequent to the receipt of the NIR, PADEP indicated that the previous owner, PBF Logistics, was required to submit an SCR for the closure of the ASTs by February 13, 2022 in response to the August 2021 spill report (PBF Logistics 2021). Because the NIR already had been submitted, Alliance requested that the requirements for the SCR be included with the Act 2 activities. However, PADEP did not accept this approach and issued a Notice of Violation to Alliance on June 8, 2022. On November 3, 2022 Alliance submitted an SCR in response to the Notice of Violation to fulfill PADEP requirements (Alliance 2022b).

On February 2, 2023, PADEP issued a disapproval letter for the November 2022 SCR (PADEP 2023). This revised SCR has been prepared based on subsequent conference calls with PADEP regarding the completion of the SCR activities and the ongoing Act 2 investigation activities. This revised SCR includes (1) a description of the AST closure investigation activities completed by PBF Logistics, (2)the subsequent delineation activities completed by Alliance, and (3) the four deficiencies in the February 2, 2023 PADEP disapproval letter (PADEP 2023) of the SCR submitted on November 3, 2022 (Alliance 2022b).

For the purposes of summarizing and reviewing the data in this revised SCR, the ASTs have been separated into the following containment areas.

- Tank Containment Area 1
    - Includes TK-7550 and TK-7551 (PADEP IDs 050A and 051A, respectively)

  - Tanks stored gasoline (assumed leaded and unleaded based on dates), Fuel Oil No. 2 and diesel fuel.
  - Required COIs include PADEP Short List of Petroleum Products for Leaded Gasoline, Unleaded Gasoline, Diesel Fuel and Fuel Oil No. 2.

- Tank Containment Area 2
  - Includes TK-649, TK-1043, and TK-1044 (PADEP IDs 049A, 042A, and 044A, respectively)
  - Tanks stored Fuel Oil No. 2.
  - Required COIs include PADEP Short List of Petroleum Products for Fuel Oil No. 2.
- Tank Containment Area 3
  - Includes TK-941, TK-1248, TK-2040, TK-204,5 and TK-4847 (PADEP IDs 041A, 048A, 040A, 045A, and 047A, respectively)
  - Tanks stored Fuel Oil No. 2.
  - Required COIs include PADEP Short List of Petroleum Products for Fuel Oil No. 2.

A Site Location Map is included as Figure 1, and a Site Plan, illustrating the Tank Containment Areas, former AST locations, and soil sampling locations is included as Figure 2A.

AST CLOSURE ACTIVITIES

In 2021, Stantec Consulting Services, Inc. (Stantec) performed the closure of 12 ASTs for PBF Logistics at the 51st Street Terminal. The ASTs were demolished and removed from the Site, and AST closure sampling was performed in August and September 2021. The AST Closure Report was submitted to PADEP on December 15, 2021. A copy of the AST Closure Report is provided in Appendix A for reference.

Soil Sample Collection

With the exception of the tank bottom sampling conducted at one AST (former tank TK-7551), AST closure sampling was performed in accordance with the applicable PADEP AST Closure Guidance documents and the Work Plan for AST Closure Activities – Greater Than 90 Feet in Diameter, dated June 21, 2021. At former tank TK-7551, Stantec initially attempted to collect the tank bottom samples via hand auger after removal of the tank, but they encountered refusal. Stantec mobilized a mini-excavator to collect the tank bottom samples and identified a compacted concrete layer at approximately 2 to 2.5 feet below ground surface (bgs). Stantec then mobilized a full-size backhoe to attempt to collect the tank bottom samples at the prescribed depth of 5 feet bgs, but they again encountered refusal and could not collect the samples. Stantec then contacted PADEP for guidance on collecting the tank bottom samples based on the field conditions and encountered refusal. PADEP agreed that the collection of tank bottom soil samples from just above the concrete layer at the location of former tank TK-7551 was acceptable. Stantec subsequently collected the appropriate number of tank bottom samples between 2 and 2.5 feet bgs.

The soil sampling locations are illustrated on Figure 2A.

Analytical Results

Tank Containment Area 1

Forty-nine soil samples were collected from Tank Containment Area 1 and analyzed for PADEP's Short List of Petroleum Products for Leaded Gasoline, Unleaded Gasoline, Diesel Fuel and Fuel Oil No. 2. Only lead and benzene were detected at concentrations above the non-residential direct contact and soil to groundwater MSCs. Lead was detected at five locations with concentrations that exceeded the non-residential soil to groundwater MSC. The concentrations ranged from 500 milligrams per kilogram (mg/kg; PIPE-81) to 750 mg/kg (PIPE-70). All lead concentrations were below the non-residential direct contact MSCs.

Similarly, benzene was detected in only two locations at concentrations above the non-residential soil to groundwater MSC. The concentrations ranged from 0.56 mg/kg (UMK-ST-N) to 0.72 mg/kg (7551-P6). All benzene concentrations were below the non-residential direct contact MSCs.

The analytical results are summarized in Table 1, and the laboratory report is provided in Appendix C.

Tank Containment Area 2

Forty-one soil samples were collected from Tank Containment Area 2 and analyzed for PADEP's Short List of Petroleum Products for Fuel Oil No. 2. No compounds were detected at concentrations above the non-residential direct contact and soil to groundwater MSCs.

The analytical results are summarized in Table 2, and the laboratory report is provided in Appendix C.

Tank Containment Area 3

Eighty-one soil samples were collected from Tank Containment Area 3 and analyzed for PADEP's Short List of Petroleum Products for Fuel Oil No. 2. Only benzene was detected at a concentration above the non-residential soil to groundwater MSC and only at one location, PIPE-29. The concentration was 0.66 mg/kg.

The analytical results are summarized in Table 3, and the laboratory report is provided in Appendix C.

Copies of the tables and figures summarizing the results from the December 15, 2021 AST Closure Report are provided in Appendix A. Based on these results, Arcadis performed investigation activities during the due diligence review of the Property to delineate the extent of the COIs. The delineation activities included soil and groundwater sampling, as discussed below.

DELINEATION INVESTIGATION ACTIVITIES

During Alliance's due diligence review of the Property and Act 2 investigation activities after the acquisition, Arcadis performed soil and groundwater investigation activities to delineate the COIs identified in the soil during the AST closure sampling and evaluate the potential COIs to the groundwater.

Geophysical Surveys

Geophysical surveys were performed prior to each sampling event to clear utilities in the proposed boring locations. The surveys included the use of electromagnetic terrain conductivity measurement, metal detection, ground-penetrating radar, and utility location equipment. Following the completion of the geophysical surveys, the soil boring, temporary well point, and monitoring well installations were performed.

Soil Investigation

Sample Collection

Tank Containment Area 1

In October 2021, as part of the due diligence review of the Property, soil borings were advanced, and temporary well points were installed. The soil borings and temporary wells were installed by Hawk Drilling, Inc. (Hawk) of Hampton, New Jersey, a licensed Pennsylvania drilling company, using Geoprobe® direct-push drilling techniques. The borings were advanced to evaluate the extent of benzene and lead in the soil.

During the temporary well point installation activities, elevated photoionization detector (PID) detections, soil staining, and odors were observed in the soil cuttings from TW-1, located adjacent to former tank TK-7551. TW-1 was installed at former soil sampling location 7551-P6, which contained benzene at a concentration (0.72 mg/kg) above the non-residential soil to groundwater MSC during the AST closure sampling.

Due to the elevated PID detections and odors, seven soil borings (SB-101 through SB-107) were installed on October 25, 2021 within Tank Containment Area 1, around former tanks TK-7550 and TK-7551, to determine the extent of COIs in soil. Each soil boring was advanced to 5 feet bgs. Samples were collected from each boring over the 6-inch interval of soil that corresponded to the highest volatile COI screening concentration based on the use of a PID reading. The selected sample was then submitted under chain-of-custody protocol to a Pennsylvania-certified laboratory for analysis.

During the sampling, Arcadis personnel screened each boring for the presence of volatile organic compounds based on screening with a PID and visual evidence of discoloration/staining from an apparently petroleum product. Each boring contained soil that had indications of staining from a potential petroleum product. Soil borings SB-101 through SB-104 on the western side of the containment area showed some evidence of staining. Soil from these borings commonly exhibited the highest PID screening values, with soil from boring SB-103 exhibiting the highest detection (1,501 parts per million). The soil in borings to the east had lower PID-based screening concentrations.

In March 2022, 12 additional soil borings (SB-205 to SB-216) were advanced within Tank Containment Area 1 to delineate the COIs identified during the previous investigation activities. Hawk advanced the soil borings using Geoprobe® direct-push drilling techniques. Each soil boring was advanced to 5 feet bgs. During the sampling, Arcadis personnel screened each boring for the presence of volatile compounds

using a PID. Samples were collected from each boring from either the 6-inch interval of soil that corresponded to the highest volatile organic compound screening concentration, the 6-inch interval that was being delineated, or 0 to 6 inches above the water table if no volatile organic compounds were detected during the screening. The samples were submitted under chain-of-custody protocol to a Pennsylvania-certified laboratory for analysis.

In March 2023, four additional soil borings (SB-302, SB-303, SB-307, and SB-309) were advanced within Tank Containment Area 1 to complete the delineation of the COIs identified during the tank closure sampling and subsequent investigation activities. Borings SB-302 and SB-303 were advanced in the eastern portion of the containment area to delineate naphthalene. Boring SB-302 also completed the delineation of benzene in the soil. Borings SB-307 and SB-309 were advanced outside the western boundary of the containment area to delineate the extent of lead in the soil associated with Tank Containment Area 1. Hawk advanced the soil borings were advanced using Geoprobe® direct-push drilling techniques. Each soil boring was advanced to 5 feet bgs. During the sampling, Arcadis personnel screened each boring for the presence of volatile COIs using a PID. Soil was sampled from each boring over the 6-inch interval that was being delineated and were submitted under chain-of-custody protocol to a Pennsylvania-certified laboratory for analysis.

After completion of each soil sampling event, the boreholes were backfilled with the drill cuttings. The sampling locations are illustrated on Figure 2A, and the boring logs are provided in Appendix B.

Tank Containment Area 3

To delineate the extent of benzene in soil at PIPE-29, located within Tank Containment Area 3, a vertical delineation soil sample was collected at location PIPE-29 from a depth of 4.5 to 5 feet bgs, which corresponded to a depth of 0 to 6 inches above the water table. A horizontal delineation soil sample also was collected from boring SB-301 at a depth of 1.5 to 2 feet bgs, the depth of exceedance at PIPE-29. The soil was sampled from borings advanced by Hawk using Geoprobe® direct-push drilling techniques. Each soil boring was advanced to 5 feet bgs and screened for the presence of volatile COIs using a PID.

After completion of the soil sampling event, the boreholes were backfilled with the drill cuttings. The sampling locations are illustrated on Figure 2A. The boring logs are provided in Appendix B.

Analytical Results

Tank Containment Area 1

The analysis of samples from soil borings SB-101 through SB-107 from October 2021 identified benzene at one location (soil boring SB-105) at a concentration above the non-residential soil to groundwater MSC. The detected concentration was 1.8 mg/kg. No other COIs were detected at concentrations above the applicable non-residential MSCs.

The analysis of samples from soil borings SB-205 through SB-216 from March 2022 identified naphthalene at two locations (soil borings SB-213 and SB-215) and benzene at one location (soil boring SB-213) at concentrations above the non-residential MSCs. Naphthalene was detected at 38 mg/kg and

1,700 mg/kg in samples from soil borings SB-215 and SB-213, respectively. Both naphthalene concentrations were above the non-residential soil to groundwater MSC, and the concentration in the sample from soil boring SB-213 also was above the non-residential direct contact MSC. Benzene was detected in soil from soil boring SB-213 at 1.8 mg/kg, which was above the non-residential soil to groundwater MSC. No other COIs were detected above the applicable non-residential MSCs.

The analysis of soil samples from soil borings SB-302 and SB-303 from March 2023 completed the delineation of naphthalene and benzene. Naphthalene was not detected in soil from soil borings SB-302 and SB-303, and benzene was not detected in soil from soil boring SB-302.

The analysis of COIs in soil from soil borings SB-307 and SB-309 from March 2023 also completed the delineation of lead. Lead was detected at concentrations of 7.56 mg/kg and 87.4 mg/kg in soil from soil borings SB-307 and SB-309, respectively. The concentrations were below the applicable non-residential generic soil to groundwater MSC.

The sampling results are summarized in Table 4, and the laboratory report is provided in Appendix C.

Tank Containment Area 3

Benzene was not detected in soil samples from soil borings PIPE-29 (4.5 to 5 feet bgs) and SB-301 (1.5 to 2 feet bgs). The results completed the delineation of benzene within this containment area.

The sampling results are summarized in Table 5, and the laboratory report is provided in Appendix C.

Conclusions

The supplemental soil sampling in Tank Containment Area 1 delineated the extent of benzene, naphthalene, and lead in the soil to the non-residential soil MSCs. Similarly, the additional soil sampling in Tank Containment Area 3 delineated the extent of benzene in the PIPE-29 area. No additional soil sampling was necessary in Tank Containment Area 2 because the COI concentrations in the tank closure soil samples were below the applicable non-residential MSCs for the petroleum products stored in the tanks. Based on the results of the previous AST closure soil sampling and delineation soil sampling, the concentrations of benzene, naphthalene, and lead have been delineated for the tank containment areas to the non-residential direct contact and soil to groundwater MSCs. Alliance currently plans to use an EC to address any residual COIs in soil.

Groundwater Investigation

Sample Collection

Temporary Monitoring Wells

In October 2021, as part of the due diligence review of the property, five temporary monitoring wells (TW-1, TW-2, TW-3, TW-4, and TW-5) were installed and sampled. Hawk installed the temporary monitoring wells using Geoprobe® direct-push drilling techniques. The temporary monitoring wells were installed to

investigate whether the soil to groundwater MSC COI exceedances were impacting the underlying groundwater. Temporary wells TW-1 to TW-3 were installed at the locations where the highest COI concentrations in soil previously were detected for each constituent during the AST closure activities. Temporary well TW-1 was installed at previous soil sampling location 7551-P6, TW-2 was installed at location 2040-P2, and TW-3 was installed in the vicinity of locations PIPE-7 and PIPE-8. Temporary wells TW-4 and TW-5 were installed along the anticipated downgradient property boundary.

Tank Containment Area 1

Temporary monitoring wells TW-1 and TW-5 were located within Tank Containment Area 1. Temporary well TW-5 was installed to a depth of 15 feet bgs. Temporary well TW-1 was installed to a depth of 10 feet bgs due to a shallower depth to groundwater. Temporary well TW-5 was constructed with 10 feet of 1-inch pre-packed slotted screen installed between 5 feet and 15 feet bgs and 1-inch riser from 5 feet bgs to grade. Temporary well TW-1 was screened from grade to 10 feet bgs.

During the installation of the temporary wells, Arcadis personnel screened each boring for the presence of volatile COIs using a PID. The soil at temporary well TW-1 had elevated PID-based readings of up to 550 ppm. Screening the soil from the other temporary wells identified low PID readings. From 0 to 15 feet bgs, the soil commonly consisted of brown to black fine silty sands with sub-rounded gravel that was poorly sorted. Groundwater was encountered at a depth from approximately 3 feet bgs in temporary well TW-1 to 13 feet bgs in temporary well TW-3.

Groundwater was sampled from the temporary wells using a peristaltic pump and dedicated tubing. The wells were purged prior to sampling, and typical field parameters, including but not limited to pH, oxygen reduction potential (ORP), temperature, turbidity, dissolved oxygen (DO), and specific conductance, were recorded for groundwater purged from these wells. Groundwater sampled for metals analysis was field filtered with a 0.5-micron filter. During the sampling activities, the groundwater in temporary wells TW-1 and TW-5 had a yellow color, even after the samples were filtered. The groundwater samples were submitted on ice and under chain-of-custody protocol to a Pennsylvania-certified laboratory for analysis.

Following the completion of the well sampling, the temporary well screens and risers were removed, and the borings were backfilled with the drill cuttings. The groundwater sampling locations are illustrated on Figure 2B. The boring logs are provided in Appendix B. Monitoring well purge logs are provided in Appendix D.

Tank Containment Area 3

Temporary monitoring wells TW-2, TW-3, and TW-4 were installed to evaluate Tank Containment Area 3. The temporary monitoring wells were installed to a depth of 15 feet bgs and were constructed with 10 feet of 1-inch pre-packed slotted screen installed between 5 feet and 15 feet bgs and 1-inch riser from 5 feet bgs to grade.

During the installation of the temporary wells, Arcadis personnel screened each boring for the presence of volatile COIs using a PID. The temporary wells showed no signs of the presence of COIs based on low PID readings. From 0 to 15 feet bgs, the soil commonly consisted of brown to black fine silty sands with

sub-rounded gravel that was poorly sorted. Groundwater was encountered at a depth of approximately 13 feet bgs.

Groundwater was sampled from the temporary monitoring wells using a peristaltic pump and dedicated tubing. The wells were purged prior to sampling, and typical field parameters, including but not limited to pH, ORP, temperature, turbidity, DO, and specific conductance, were recorded for the temporary monitoring wells. Groundwater sampled for metals analysis was field filtered with a 0.5-micron filter. It was not possible to sample temporary well TW-4 because the well did not produce water over a 72-hour time period. The groundwater samples were submitted on ice and under chain-of-custody protocol to a Pennsylvania-certified laboratory for analysis.

Following the completion of the well sampling, the temporary well screens and risers were removed, and the borings were backfilled with the drill cuttings. The groundwater sampling locations are illustrated on Figure 2B, the boring logs are provided in Appendix B, and monitoring well purge logs are provided in Appendix D.

Existing Monitoring Wells

During the field activities, six existing monitoring wells were identified. Four monitoring wells (MW-1 through MW-4) were in good enough condition and could be used for groundwater sampling. It was not possible to sample two monitoring wells (MW-5 and MW-6) because monitoring well MW-5 contained no measurable water, and monitoring well MW-6 had been previously abandoned. Groundwater from the four functioning monitoring wells was sampled to assess the COIs in groundwater that may have originated from the overlying soils within Tank Containment Areas 1 and 3. The monitoring well locations are illustrated on Figure 2B.

Tank Containment Area 1

Monitoring wells MW-2 and MW-3 are located immediately adjacent to and downgradient of Tank Containment Area 1. Monitoring well MW-1 is located on the property boundary downgradient of Tank Containment Area 1. On October 25, 2021, groundwater was sampled from the monitoring wells using United States Environmental Protection Agency (USEPA) low-flow sampling techniques (USEPA 2017). The monitoring wells were purged at a rate of approximately 0.1 gallon per minute with a submersible centrifugal pump (ProActive Steel Monsoon Pump™ or equivalent). Water quality parameters, including included temperature (degrees Celsius), pH (standard units), conductivity (micro-Siemens per centimeter), DO (milligrams per liter), ORP (millivolts), and turbidity (nephelometric turbidity units), were measured using a Horiba U-52 water quality meter and flow-through cell every 5 minutes. After the water quality parameters stabilized to meet the conditions outlined in the USEPA low-flow guidance (USEPA 2017), the tubing was disconnected from the Horiba U-52 water quality meter, and the groundwater was sampled. Elevated pH readings were observed in groundwater from monitoring well MW-3. The samples were submitted on ice under chain-of-custody protocol to a Pennsylvania-certified laboratory for analysis.

The monitoring well purge logs are provided in Appendix D, a summary of the groundwater elevation data is provided in Table 6, and the groundwater potentiometric surface elevation contours are illustrated on

Figure 3. Based on the contours on Figure 3, groundwater flow is interpreted to be in a northeasterly direction.

Tank Containment Area 3

Monitoring well MW-4 is located on the southern property boundary downgradient of Tank Containment Area 3. Similar to monitoring wells MW-1 to MW-3, groundwater was sampled from monitoring well MW-4 on October 25, 2021 using USEPA low-flow sampling techniques (USEPA 2017). The samples were submitted on ice under chain-of-custody protocol to a Pennsylvania-certified laboratory for analysis.

The monitoring well purge logs are provided in Appendix D; a summary of the groundwater elevation data is provided in Table 6; and the groundwater potentiometric surface elevation contours are illustrated on Figure 3. Groundwater flow is interpreted to be in a northeasterly direction.

Analytical Results

Temporary Monitoring Wells

Tank Containment Area 1

In temporary monitoring well TW-1, benzene was detected at a concentration above the non-residential used aquifer groundwater MSC. Benzene was detected in the initial analysis at 65 micrograms per liter (µg/L) and in the contingent analysis at 66 µg/L. Both concentrations exceeded the non-residential used aquifer groundwater MSC of 5 µg/L. Benzene was detected in temporary monitoring well TW-5 at estimated concentrations of 0.36 µg/L and 0.32 µg/L, which were well below the non-residential used aquifer groundwater MSC. No other COIs were detected above the applicable non-residential used aquifer groundwater MSCs.

Lead concentrations varied from an estimated 0.3553 µg/L in TW-5 to 9.312 µg/L in temporary monitoring well TW-2. The lead concentration in the initial groundwater sample from temporary monitoring well TW-2 was estimated at 0.9818 µg/L. The lead concentration in the contingent groundwater sample from temporary monitoring well TW-2 was 9.312 µg/L, which is above the non-residential used aquifer groundwater MSC of 5 µg/L.

The sampling results for the temporary monitoring wells are summarized in Table 7. The laboratory reports are provided in Appendix C.

Tank Containment Area 3

The analysis of the groundwater samples from temporary monitoring wells TW-2 and TW-3 for the applicable Short List of Petroleum Products did not identify any compounds above the non-residential used aquifer groundwater MSCs. The sampling results are summarized in Table 8, and the laboratory reports are provided in Appendix C.

Existing Monitoring Wells

Tank Containment Area 1

The analysis of the groundwater samples from monitoring wells MW-1, MW-2, and MW-3 for the applicable Short List of Petroleum Products identified low concentrations of 1,2,4-trimethlybenzene, benzene, isopropylbenzene, xylenes, toluene, and ethylbenzene. All concentrations were less than the non-residential used aquifer groundwater MSCs.

The sampling results are summarized in Table 9, and the laboratory report is provided in Appendix C.

Tank Containment Area 3

The analysis of the groundwater sample from monitoring well MW-4 for the applicable Short List of Petroleum Products did not identify any compounds above the non-residential used aquifer groundwater MSCs. The sampling results are summarized in Table 9, and the laboratory reports are provided in Appendix C.

Conclusions

The groundwater sampling results identified benzene in groundwater sampled from one temporary well (TW-1) with concentrations above the non-residential used aquifer MSC. The temporary monitoring well was located within Tank Containment Area 1 adjacent to former tank TK-7551. Sampling of groundwater from the other temporary wells and downgradient monitoring wells delineated the extent of the benzene in groundwater and confirmed that benzene is not migrating offsite.

SUPPLEMENTAL GROUNDWATER INVESTIGATION ACTIVITIES

The groundwater sampling in October 2021 identified benzene in groundwater from one temporary well (TW-1) located within Tank Containment Area 1 with concentrations above the non-residential used aquifer MSC. The temporary monitoring well was located adjacent to former TK-7551. Based on these results and the AST closure and delineation investigation activities, three additional monitoring wells (MW-7 to MW-9) were installed, and quarterly groundwater monitoring was initiated as part of the Act 2 investigation activities.

Monitoring Well Installation

Tank Containment Area 1

On March 16, 2022, two additional monitoring wells (MW-7 and MW-8) were installed to further evaluate the groundwater quality associated with Tank Containment Area 1. Monitoring well MW-7 was installed in the vicinity of temporary monitoring well TW-1, adjacent to former tank TK-7551, to further assess the benzene concentrations in groundwater in this area. Monitoring well MW-8 was installed upgradient of monitoring well MW-7 along the western property boundary.

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

Following installation, the new monitoring wells (MW-7 and MW-8) and the existing monitoring wells (MW-1, MW-2, MW-3, MW-4, and MW-5) were surveyed by a Pennsylvania-licensed surveying company, DPK Consulting, located in Middlesex, New Jersey. A summary of the construction details for the monitoring wells is provided in Table 10, and the monitoring well locations are illustrated on Figure 2B.

Tank Containment Area 3

On March 16, 2022, one additional monitoring well (MW-9) was installed downgradient of Tank Containment Area 3 to further evaluate groundwater quality associated with Tank Containment Area 3. Monitoring well MW-9 was installed along the southern property boundary and installed and constructed as described above for monitoring wells MW-7 and MW-8. Monitoring well MW-9 was finished as a stick-up well. In addition, MW-9 was surveyed following installation along with the other site monitoring wells. A summary of the construction details for the monitoring wells is provided in Table 10, and the monitoring well locations are illustrated on Figure 2B.

Quarterly Groundwater Sampling

Following the installation of the new monitoring wells, quarterly groundwater monitoring was initiated. Groundwater from monitoring wells MW-1, MW-2, MW-3, MW-5, MW-7, and MW-8 was sampled to evaluate the groundwater quality associated with Tank Containment Area 1. Monitoring wells MW-1 through MW-3 are located downgradient of Tank Containment Area 1, and monitoring wells MW-5 and MW-8 are located upgradient of Tank Containment Area 1. Monitoring well MW-7 is located within Tank Containment Area 1 adjacent to former TK-7551.

Groundwater from monitoring wells MW-4 and MW-9 was sampled to evaluate groundwater quality associated with Tank Containment Area 3. The monitoring wells are located downgradient of Tank Containment Area 3 along the southern property boundary.

During each sampling event, groundwater was sampled using USEPA low-flow sampling techniques (USEPA, 2017). Prior to the start of the groundwater sampling activities, groundwater levels were gauged

to determine the groundwater flow direction. The monitoring wells then were purged at a rate of approximately 0.1 gallon per minute with a submersible pump. Water quality parameters, including temperature (degrees Celsius), pH (standard units), conductivity (micro-Siemens per centimeter), DO (milligrams per liter), ORP (millivolts), and turbidity (nephelometric turbidity units), were measured using a Horiba U-52 water quality meter and flow-through cell every 5 minutes. After the water quality parameters stabilized, as outlined in the USEPA low-flow guidance (USEPA 2017), the tubing was disconnected from the Horiba U-52 water quality meter, and the samples were collected.

The groundwater samples were submitted under chain-of-custody protocol to Alpha Analytical, a Pennsylvania-certified laboratory, for analysis. The monitoring well purge logs are provided in Appendix D, a summary of the groundwater elevation data is provided in Table 6, and the potentiometric surface elevation contours are illustrated on Figures 4 through 7. Groundwater flow is interpreted to be in a northeasterly direction.

Analytical Results

The analytical results for the monitoring events completed in April 2022, July 2022, October 2022, and January 2023 are summarized below by containment area.

Tank Containment Area 1

During the four sampling events, the only COI that was detected above the non-residential used aquifer groundwater MSC was benzene. Benzene was detected in groundwater sampled from only one monitoring well (MW-7), which is located within Tank Containment Area 1, at concentrations above the non-residential used aquifer groundwater MSC of 5 µg/L. The concentrations have ranged from 37 µg/L (July 2022) to 74 µg/L (October 2022). The benzene concentrations in groundwater sampled from downgradient monitoring wells MW-1, MW-2, and MW-3 have been below the non-residential used aquifer groundwater MSC. In groundwater sampled from monitoring well MW-1, the concentrations have ranged from 0.68 µg/L (July 2022) to 1.1 µg/L (January 2023). In groundwater sampled from monitoring well MW-2, the concentrations have ranged from 3.2 µg/L (July 2022) to 4 µg/L (January 2023). Benzene has not been detected in groundwater sampled from monitoring well MW-3. No other parameters were detected above the applicable non-residential used aquifer groundwater MSCs.

The groundwater sampling results are summarized in Table 9, and the laboratory report is provided in Appendix C.

Tank Containment Area 3

During the initial sampling event, naphthalene was detected in groundwater sampled from monitoring well MW-9 at a concentration of 150 µg/L, which exceeded the non-residential used aquifer groundwater MSC of 100 µg/L. In subsequent groundwater sampling events, the concentrations of naphthalene have been below the non-residential used aquifer groundwater MSC. The concentrations have ranged from 41 µg/L (July 2022) to 99 µg/L (October 2022). No other COIs have been detected in groundwater sampled from monitoring well MW-9 above the applicable non-residential used aquifer groundwater MSCs. In addition,

no COIs have been detected in groundwater from monitoring well MW-4 above the applicable non-residential used aquifer groundwater MSCs.

The groundwater sampling results are summarized in Table 9, and the laboratory report is provided in Appendix C.

Conclusions

The quarterly groundwater monitoring program has been initiated and is ongoing for the Act 2 investigation. Benzene concentrations in groundwater have been above the non-residential used aquifer groundwater MSC within Tank Containment Area 1. However, the concentrations of benzene in the groundwater sampled from downgradient monitoring wells are below the non-residential used aquifer groundwater MSC. In addition, naphthalene was initially detected in groundwater sampled from monitoring well MW-9, located downgradient of Tank Containment Area 3, at a concentration above the non-residential used aquifer groundwater MSC; however, in the subsequent three events, the concentrations have been below the non-residential used aquifer groundwater MSC. Based on the sampling results, Alliance currently plans to use an EC to address the residual benzene concentrations in groundwater at monitoring well MW-7.

WELL SURVEY

Water is supplied to the Site and surrounding area by the Philadelphia Water Department. Arcadis performed a 1-mile-radius well search in February 2023 (Appendix E) using the state database maintained by the Pennsylvania Groundwater Information System. According to the well search, 130 monitoring wells, 16 wells with no use provided (NP), 3 observation wells, 2 test wells, and 72 withdrawal wells were reported within 1 mile of the Site. In addition, there were 58 abandoned wells, 39 destroyed wells, and 11 unused wells reported within the 1-mile radius. Within a 0.5-mile radius of the Site, several monitoring wells, test wells, abandoned wells, unused wells, and destroyed wells were reported. In addition, three withdrawal wells were identified, but these were located on the opposite side of the Schuylkill River. No domestic potable supply wells were identified hydraulically downgradient within 0.5 miles of the site. The results of the 1-mile-radius search from the Pennsylvania Groundwater Information System are illustrated on Figure 8.

Based on the groundwater investigation results, the petroleum-related COIs associated with site ASTs are limited to the Site as delineated by the groundwater sampled from downgradient monitoring wells located near the Property boundary. Based on the monitoring well search results, migration of impacted COIs in groundwater to a potable source is not expected.

ECOLOGICAL RECEPTOR EVALUATION

Wetlands Inventory

An evaluation of wetlands in the area was conducted via the National Wetlands Inventory (NWI) wetlands mapping tool provided by the U.S. Fish & Wildlife Service (USFWS). NWI maps are used as a guide, along with other data, to indicate the potential presence of wetlands. The NWI data indicated that no

wetland or riverine features are located within the site boundary (USFWS 2023). The Schuylkill River, an NWI wetland/riverine feature classified as R1UBV, is adjacent to the Site. The Site is roughly 3.5 miles from where the Schuylkill River empties into the Delaware River. An NWI feature map is provided in Appendix F.

Pennsylvania Natural Diversity Inventory

A Pennsylvania Natural Diversity Inventory survey was generated for the Site and surrounding area in June 2022 as part of permitting for the redevelopment of the Site. The responses from the initial survey by the Pennsylvania Game Commission and USFWS indicated that there were no known impacts. The initial responses from both the Pennsylvania Department of Conservation and Natural Resources and Pennsylvania Fish and Boat Commission agencies indicated there was a potential impact and that further review was required. Following their reviews, the agencies confirmed that no adverse impacts are anticipated within the project area. The Pennsylvania Natural Diversity Inventory survey and Pennsylvania Department of Conservation and Natural Resources and Pennsylvania Fish & Boat Commission clearance letters are provided in Appendix G.

CLOSING

Based on the results of the previous AST closure soil sampling and the delineation soil sampling, the concentrations of benzene, naphthalene, and lead in soil have been delineated for the tank containment areas to the non-residential direct contact and soil to groundwater MSCs. No other applicable petroleum-related COIs were detected above the non-residential MSCs. Alliance currently plans to establish an EC for the Site to address these residual COIs in soil.

The quarterly groundwater monitoring program is ongoing for the Act 2 investigation. Groundwater sampling has identified benzene at concentrations above the non-residential used aquifer groundwater MSC within Tank Containment Area 1. However, the concentrations of benzene in groundwater samples from the downgradient monitoring wells are below the non-residential used aquifer groundwater MSC. In addition, naphthalene was initially detected in groundwater sampled from monitoring well MW-9, located downgradient of Tank Containment Area 3, at a concentration above the non-residential used aquifer groundwater MSC, but concentrations have been below the non-residential used aquifer groundwater MSC in the subsequent three events. Based on the sampling results, Alliance currently plans to establish an EC to address the residual benzene concentrations in groundwater in the area of monitoring well MW-7.

Act 2 investigation activities are ongoing, and we will keep PADEP notified of the progress. As discussed above, the delineation of sitewide soil impacts for all parameters was completed in March 2023. Alliance currently plans to submit an Act 2 soils report to address any remaining soil issues while the groundwater investigation continues.

Ms. Rebecca Flannery
Pennsylvania Department of Environmental Protection
November 3, 2022
Revised June 27, 2023

If you have any questions regarding the findings to date, please do not hesitate to contact us at 908.526.1000.

Sincerely,

Lawrence G. Brunt, PE
Principal Engineer

Mark B. Hanish, PG
Principal Geologist

Copies:
Anthony J. Reitano, Esq. – Herold Law
Eric Carlson – Alliance

REFERENCES

Alliance. 2022a. Notice of Intent to Remediate under the Act 2 Program. Submitted to PADEP re: the Alliance Former 51st Street Terminal, 1630-1646 South 51st Street, Philadelphia, Pennsylvania. February 9.

Alliance. 2022a. Site Characterization Report. Former 51st Street Terminal, Facility ID No. 51-10420, Incident No. 56662, 1630-1646 South 51st Street, Philadelphia, Pennsylvania. November 3.

PADEP. 2022. Notice of Violation. Issued in response to Notice of Intent to Remediate under the Act 2 Program. Alliance Former 51st Street Terminal, 1630-1646 South 51st Street, Philadelphia, Pennsylvania. June 8.

PADEP. 2023. Letter disapproving the Site Characterization Report submitted by Alliance on November 3, 2022 for the Alliance Former 51st Street Terminal, Facility ID No. 51-10420, Incident No. 56662, 1630-1646 South 51st Street, Philadelphia, Pennsylvania. February 2.

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

USEPA. 2017. Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells.

TABLES

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

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	7550-P1	7550-P2	7550-P3	7550-P4	7550-P5	7550-P6	7550-P7	7550-Center	7550-North
Tank Containment Area						1	1	1	1	1	1	1	1	1
Date						9/23/2021	9/23/2021	9/23/2021	9/23/2021	9/23/2021	9/23/2021	9/23/2021	9/23/2021	9/29/2021
Depth						3.0	3.0	3.0	3.0	3.0	3.0	3.0	5.0	2.5
Lab ID						410-56522-7	410-56522-6	410-56522-10	410-56522-13	410-56522-14	410-56522-9	410-56522-8	410-56522-5	410-57140-1
Ethylbenzene	880	1,000	46	70	mg/kg	0.00521	ND (0.00056)	ND (0.00050)	ND (0.032)	ND (0.00069)	ND (0.00077)	ND (0.00060)	ND (0.0073)	ND (0.00034)
1,2-Dichloroethane	85	98	0.1	0.5	mg/kg	ND (0.0011)	ND (0.00084)	ND (0.00075)	ND (0.048)	ND (0.0010)	ND (0.0012)	ND (0.00090)	ND (0.0073)	ND (0.00051)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	0.23	0.00581	ND (0.00082)	0.0631	0.016	0.00381	0.00411	0.00231	0.000851
Toluene	10,000	10,000	44	100	mg/kg	0.012	0.00131	0.000771	0.0591	0.00171	0.00171	0.00221	ND (0.0073)	ND (0.00051)
Xylenes, Total	7,900	9,100	990	1,000	mg/kg	0.099	0.00421	ND (0.0017)	0.1801	0.018	ND (0.0027)	0.00371	15	ND (0.0012)
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.00092)	ND (0.00070)	ND (0.00062)	ND (0.040)	ND (0.00086)	ND (0.00096)	ND (0.00075)	ND (0.0073)	ND (0.00042)
Benzene	280	330	0.13	0.5	mg/kg	0.00291	0.00111	0.000741	ND (0.040)	0.00251	0.000981	0.00191	ND (0.0073)	ND (0.00042)
Naphthalene	66	77	25	10	mg/kg	0.054	ND (0.0028)	ND (0.0025)	0.2601	0.00801	0.00621	ND (0.0030)	ND (0.0073)	ND (0.0017)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	0.35	0.00481	ND (0.00062)	0.0871	0.009	0.00431	0.00391	0.00181	0.00101
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	0.00511	ND (0.00056)	ND (0.00050)	ND (0.032)	ND (0.00069)	ND (0.00077)	ND (0.00060)	ND (0.0073)	ND (0.00034)
1,2,-Dibromoethane	3.7	4.2	0.001	0.005	mg/kg	0.000891	0.00056	ND (0.00050)	ND (0.032)	ND (0.00069)	ND (0.00077)	ND (0.00060)	ND (0.0073)	ND (0.00034)
Lead	1,000	190,000	450	1	mg/kg	**690**	170	48	150	120	87	85	88	1.6

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	UNK-ST-W	UNK-ST-E	Pipe 68	Pipe 69	Pipe 70	Dup-4	Pipe 71	Pipe 72	Pipe 74
Tank Containment Area						1	1	1	1	1	1	1	1	1
Date						9/23/2021	9/23/2021	8/9/2021	8/9/2021	8/9/2021	8/9/2021	8/9/2021	8/9/2021	8/6/2021
Depth						3.0	3.0	2.0	2.0	2.0		2.0	2.0	2.0
Lab ID						410-56522-11	410-56522-12	410-50672-2	410-50672-1	410-50503-10	410-50503-11	410-50503-8	410-50503-9	410-50503-4
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.00067)	0.00111	ND (0.00059)	ND (0.062)	0.0801	0.1001	0.3501	ND (0.029)	0.0611
1,2-Dichloroethane	85	98	0.1	0.5	mg/kg	ND (0.0010)	ND (0.00070)	ND (0.00088)	ND (0.093)	ND (0.062)	ND (0.056)	ND (0.059)	ND (0.044)	ND (0.045)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	0.00321	0.0069	0.00551	0.5901	1.10	1.30	0.970	0.0881	0.0661
Toluene	10,000	10,000	44	100	mg/kg	0.00211	0.00571	0.00291	0.2101	0.3201	0.4501	0.1701	0.2301	0.2801
Xylenes, Total	7,900	9,100	990	1,000	mg/kg	0.00301	0.0111	0.00641	0.3501	0.5901	0.7701	1.20	0.3301	0.2801
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.00084)	ND (0.00058)	ND (0.00073)	ND (0.077)	ND (0.052)	ND (0.047)	ND (0.049)	ND (0.037)	ND (0.037)
Benzene	280	330	0.13	0.5	mg/kg	0.00151	0.00411	0.00171	ND (0.077)	ND (0.052)	0.0681	ND (0.049)	0.0491	0.0551
Naphthalene	66	77	25	10	mg/kg	ND (0.0034)	0.009	ND (0.0029)	ND (0.310)	ND (0.210)	ND (0.190)	ND (0.049)	ND (0.150)	0.430
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	0.00231	0.00491	0.00541	0.6501	1.50	2.10	1.90	0.1801	0.0921
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00067)	ND (0.00047)	ND (0.00059)	ND (0.062)	ND (0.041)	0.0411	0.580	ND (0.029)	0.670
1,2,-Dibromoethane	3.7	4.2	0.001	0.005	mg/kg	ND (0.00067)	ND (0.00047)	ND (0.00059)	ND (0.062)	ND (0.041)	ND (0.037)	ND (0.039)	ND (0.029)	ND (0.030)
Lead	1,000	190,000	450	1	mg/kg	120	49	240	89	**750**	210	130	160	160

Notes:
Samples were collected by Stantec Consulting Services, Inc. on behalf of PBF Logistics Products Terminals LLC.
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic Soil to Groundwater MSCs Criteria or Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria)
Bolded and highlighted concentrations are exceedances of a corresponding MSC.
Numbers in parentheses represent the laboratory Method Detection Limit

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
ND = Not detected

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

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	7550-South	7550-East	7551-P1	7551-P2	7551-P3	7551-P4	7551-P5	7551-P6	7551-P7
Tank Containment Area						1	1	1	1	1	1	1	1	1
Date						9/29/2021	9/29/2021	8/6/2021	8/6/2021	8/6/2021	8/6/2021	8/6/2021	8/6/2021	8/6/2021
Depth						2.3	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lab ID						410-57140-2	410-57140-3	410-50281-4	410-50281-6	410-50281-9	410-50503-2	410-50281-2	410-50281-18	410-50281-16
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.00044)	ND (0.00034)	ND (0.00060)	ND (0.00054)	ND (0.00050)	ND (0.00037)	ND (0.00044)	4.10	0.0421
1,2-Dichloroethane	85	98	0.1	0.5	mg/kg	ND (0.00066)	ND (0.00052)	ND (0.00090)	ND (0.00082)	ND (0.00075)	ND (0.00055)	ND (0.00066)	ND (0.055)	ND (0.041)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.00055)	ND (0.00043)	0.00331	ND (0.00068)	0.000711	ND (0.00046)	ND (0.00055)	15	0.1801
Toluene	10,000	10,000	44	100	mg/kg	ND (0.00066)	ND (0.00052)	0.00191	ND (0.00082)	0.000841	ND (0.00055)	ND (0.00066)	8.40	0.2201
Xylenes, Total	7,900	9,100	990	1,000	mg/kg	ND (0.0015)	ND (0.0012)	0.00311	ND (0.0019)	ND (0.0018	ND (0.0013)	ND (0.0015)	31	0.3001
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.00055)	ND (0.00043)	ND (0.00075)	ND (0.00068)	ND (0.00063)	ND (0.00046)	ND (0.00055)	ND (0.046)	ND (0.034)
Benzene	280	330	0.13	0.5	mg/kg	ND (0.00055)	ND (0.00043)	0.00111	ND (0.00068)	0.000851	ND (0.00046)	ND (0.00055)	**0.72**	ND (0.034)
Naphthalene	66	77	25	10	mg/kg	ND (0.0022)	ND (0.0017)	ND (0.003)	ND (0.0027)	ND (0.0025	ND (0.0018)	ND (0.0022)	1.10	ND (0.140)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	ND (0.00055)	ND (0.00043)	0.00581	ND (0.00068)	0.000771	ND (0.00046)	ND (0.00055)	51	0.420
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00044)	ND (0.00034)	ND (0.00060)	ND (0.00054)	ND (0.0005)	ND (0.00037)	ND (0.00044)	2.0	ND (0.027)
1,2,-Dibromoethane	3.7	4.2	0.001	0.005	mg/kg	ND (0.00044)	ND (0.00034)	ND (0.00060)	ND (0.00054)	ND (0.0005)	ND (0.00037)	ND (0.00044)	ND (0.037)	ND (0.027)
Lead	1,000	190,000	450	1	mg/kg	5.6	3.2	42	37	44	29	25	21	18

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	Pipe 74	Pipe 75	Pipe 76	Pipe 77	Pipe 78	Pipe 79	Pipe 80	DUP-3	Pipe 81
Tank Containment Area						1	1	1	1	1	1	1	1	1
Date						8/10/2021	8/6/2021	8/6/2021	8/6/2021	8/6/2021	8/6/2021	8/6/2021	8/6/2021	8/6/2021
Depth						2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0
Lab ID						410-50672-16	410-50281-3	410-50281-8	410-50281-7	410-50281-14	410-50281-15	410-50281-21	410-50281-1	410-50281-19
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.00065)	0.0441	ND (0.00038)	1.40	0.1401	1.70	0.00381	0.00481	0.00141
1,2-Dichloroethane	85	98	0.1	0.5	mg/kg	ND (0.00098)	ND (0.038)	ND (0.00057)	ND (0.044)	ND (0.065)	ND (0.030)	ND (0.00071)	ND (0.00073)	0.00131
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.00082)	0.1001	ND (0.00048)	8.10	1.10	0.0391	0.00141	0.00151	ND (0.0056)
Toluene	10,000	10,000	44	100	mg/kg	0.00141	0.1801	ND (0.00057)	0.1001	0.1101	ND (0.030)	0.011	0.012	0.031
Xylenes, Total	7,900	9,100	990	1,000	mg/kg	ND (0.0023)	0.2401	ND (.0013)	3.50	0.4701	0.1101	0.012	0.014	0.00731
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.00082)	ND (0.032)	0.00111	ND (0.036)	ND (0.055)	ND (0.025)	ND (0.00059)	ND (0.00061)	ND (0.0056)
Benzene	280	330	0.13	0.5	mg/kg	0.00111	0.0391	ND (0.00048)	ND (0.036)	ND (0.055)	0.0261	0.00381	0.00431	0.012
Naphthalene	66	77	25	10	mg/kg	ND (0.0033)	ND (0.130)	ND (0.0019)	2.00	0.2901	0.820	ND (0.0024)	0.00361	ND (0.0022)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	ND (0.00082)	0.0651	ND (0.00048)	19.0	2.20	27	0.00571	0.0073	0.00111
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00065)	ND (0.025)	ND (0.00038)	1.80	0.1801	1.0	ND (0.00047)	0.000541	ND (0.00044)
1,2,-Dibromoethane	3.7	4.2	0.001	0.005	mg/kg	ND (0.00065)	ND (0.025)	ND (0.00038)	ND (0.029)	ND (0.044)	ND (0.020)	ND (0.00047)	ND (0.0049)	ND (0.00044)
Lead	1,000	190,000	450	1	mg/kg	120	190	270	210	94	14	30	26	**500**

Notes:
Samples were collected by Stantec Consulting Services, Inc. on behalf of PBF Logistics Products Terminals LLC.
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic Soil to Groundwater MSC
Bolded and highlighted concentrations are exceedances of a corresponding MSC.
Numbers in parentheses represent the laboratory Method Detection Limit

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
ND = Not detected

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

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	7551-Center	7551-North	7551-East	7551-South	DUP-9	UNK-ST-S	UNK-ST-N
Tank Containment Area						1	1	1	1	1	1	1
Date						9/23/2021	9/23/2021	9/23/2021	9/23/2021	9/23/2021	8/6/2021	8/6/2021
Depth						5.0	5.0	5.0	5.0		3.0	3.0
Lab ID						410-56522-15	410-57140-4	410-57140-5	410-57140-7	410-56522-16	410-50503-6	410-50503-7
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.00072)	ND (0.00073)	ND (0.046)	ND (0.00043)	ND (0.00066)	0.000851	0.3101
1,2-Dichloroethane	85	98	0.1	0.5	mg/kg	ND (0.0011)	ND (0.0011)	ND (0.070)	ND (0.00065)	ND (0.00098)	ND (0.00094)	ND (0.051)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.00090)	0.00171	0.0811	ND (0.00054)	ND (0.00082)	0.00661	1.10
Toluene	10,000	10,000	44	100	mg/kg	ND (0.0011)	0.00231	ND (0.070)	ND (0.00065)	0.00111	0.00281	0.740
Xylenes, Total	7,900	9,100	990	1,000	mg/kg	ND (0.0025)	ND (0.0026)	ND (0.160)	ND (0.0015)	ND (0.0023)	0.00721	2.40
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	0.029	0.00651	0.2401	ND (0.00054)	0.023	0.00181	ND (0.043)
Benzene	280	330	0.13	0.5	mg/kg	ND (0.00090)	ND (0.00091)	ND (0.058)	ND (0.00054)	0.00121	0.00181	**0.560**
Naphthalene	66	77	25	10	mg/kg	ND (0.0036)	ND (0.0037)	ND (0.230)	ND (0.0022)	ND (0.0033)	0.00331	3.40
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	ND (0.00090)	ND (0.00091)	0.1701	ND (0.00054)	ND (0.00082)	0.012	2.80
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00072)	ND (0.00073)	ND (0.046)	ND (0.00043)	ND (0.00066)	ND (0.00063	0.1201
1,2,-Dibromoethane	3.7	4.2	0.001	0.005	mg/kg	ND (0.00072)	ND (0.00073)	ND (0.046)	ND (0.00043)	ND (0.00066)	ND (0.00063)	ND (0.034)
Lead	1,000	190,000	450	1	mg/kg	47	13	36	32	42	39	65

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	Pipe 82	Pipe 83	Pipe 84	Pipe 85	Pipe 86	Pipe 87
Tank Containment Area						1	1	1	1	1	1
Date						8/6/2021	8/6/2021	8/6/2021	8/6/2021	8/6/2021	8/6/2021
Depth						2.0	2.0	2.0	2.0	2.0	2.0
Lab ID						410-50281-17	410-50281-20	410-50503-5	410-50503-1	410-50503-3	410-50281-5
Ethylbenzene	880	1,000	46	70	mg/kg	0.0011	ND (0.00043)	0.000431	ND (0.083)	ND (0.032)	0.1001
1,2-Dichloroethane	85	98	0.1	0.5	mg/kg	ND (0.00087)	ND (0.00065)	ND (0.00056)	ND (0.130)	ND (0.049)	ND (0.04)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	0.000731	ND (0.00054)	0.000781	ND (0.0100)	ND (0.041)	ND (0.033)
Toluene	10,000	10,000	44	100	mg/kg	0.00681	0.0055	0.00251	ND (0.130)	0.0531	0.0791
Xylenes, Total	7,900	9,100	990	1,000	mg/kg	0.00591	0.00281	0.00231	ND (0.290)	ND (0.110)	0.1201
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.00073)	ND (0.00054)	ND (0.00047)	ND (0.100)	ND (0.041)	ND (0.033)
Benzene	280	330	0.13	0.5	mg/kg	0.00621	0.00381	0.0086	ND (0.100)	ND (0.041)	ND (0.033)
Naphthalene	66	77	25	10	mg/kg	ND (0.0029)	ND (0.0022)	0.00321	ND (0.420)	ND (0.160)	ND (0.130)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	0.00121	0.000581	0.000771	ND (0.100)	ND (0.041)	0.1001
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00058)	ND (0.00043)	ND (0.00037)	ND (0.083)	0.0481	ND (0.026)
1,2,-Dibromoethane	3.7	4.2	0.001	0.005	mg/kg	ND (0.00058)	ND (0.00043)	ND (0.00037)	ND (0.083)	ND (0.032)	ND (0.026)
Lead	1,000	190,000	450	1	mg/kg	200	76	51	180	**540**	**720**

Notes:
Samples were collected by Stantec Consulting Services, Inc. on behalf of PBF Logistics Products Terminals LLC.
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic Soil to Groundwater MSC
Bolded and highlighted concentrations are exceedances of a corresponding MSC.
Numbers in parentheses represent the laboratory Method Detection Limit

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
ND = Not detected

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

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	649-P1	649-P2	649-P3	649-P4	649-P5	649-Center	1043-P1	1043-P2	1043-P3 / DUP-2		1043-P4
Tank Containment Area						2	2	2	2	2	2	2	2	2	2	2
Date						8/11/2021	8/12/2021	8/11/2021	8/12/2021	8/13/2021	9/16/2021	8/5/2021	8/5/2021	8/5/2021	8/5/2021	8/5/2021
Depth						3.0	3.0	3.0	3.0	3.0	5.0	3.0	3.0	3.0		3.0
Lab ID						410-51060-9	410-51060-10	410-51060-8	410-51060-11	410-51318-5	410-55731-2	410-50281-30	410-50151-9	410-50151-6	410-50151-7	410-50281-29
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.00082)	ND (0.00064)	ND (0.00066)	ND (0.00061)	ND (0.037)	ND (0.043)	ND (0.00066)	ND (0.00058)	ND (0.00062)	ND (0.00062)	ND (0.00070)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.0010)	ND (0.00080)	ND (0.00083)	0.00111	ND (0.046)	ND (0.150)	ND (0.00082)	ND (0.00073)	ND (0.00078)	ND (0.00077)	ND (0.00087)
Toluene	10,000	10,000	44	100	mg/kg	0.00821	0.00311	ND (0.00099)	0.019	ND (0.055)	ND (0.064)	ND (0.00098)	0.000941	ND (0.00093)	ND (0.00093)	ND (0.001)
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.0010)	ND (0.00080)	ND (0.00083)	ND (0.00076)	ND (0.046)	ND (0.054)	ND (0.00082)	ND (0.00073)	ND (0.00078)	ND (0.00077)	ND (0.00087)
Benzene	280	330	0.13	0.5	mg/kg	0.00751	0.00301	ND (0.00083)	0.013	ND (0.046)	ND (0.054)	0.00161	0.00191	ND (0.00078)	ND (0.00077)	0.00261
Naphthalene	66	77	25	10	mg/kg	ND (0.0041)	ND (0.0032)	ND (0.0033)	ND (0.0030)	ND (0.180)	ND (0.210)	ND (0.0033)	ND (0.0029)	ND (0.0031)	ND (0.0031)	ND (0.0035)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	0.00111	ND (0.00080)	ND (0.00083)	0.00181	ND (0.046)	ND (0.054)	ND (0.00082)	ND (0.00073)	ND (0.00078)	ND (0.00077)	ND (0.00087)
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00082)	ND (0.00064)	ND (0.00066)	ND (0.00061)	ND (0.037)	ND (0.043)	ND (0.00066)	ND (0.00058)	ND (0.00062)	ND (0.00062)	ND (0.00070)

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	Pipe 47	Pipe 48	Pipe 49	Pipe 50	Pipe 51	Pipe 52	Pipe 53	Pipe 54	Pipe 55	Pipe 56	Pipe 57
Tank Containment Area						2	2	2	2	2	2	2	2	2	2	2
Date						8/5/2021	8/5/2021	8/5/2021	8/5/2021	8/5/2021	8/5/2021	8/5/2021	8/9/2021	8/5/2021	8/9/2021	8/9/2021
Depth						2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lab ID						410-50281-25	410-50281-27	410-50281-23	410-50281-22	410-50281-31	410-50281-32	410-50281-11	410-50672-7	410-50281-13	410-50672-6	410-50672-3
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.041)	0.000651	ND (0.00056)	ND (0.00061)	ND (0.00077)	ND (0.00060)	ND (0.00071)	ND (0.00059)	ND (0.048)	ND (0.00071)	ND (0.00091)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.051)	ND (0.00079)	ND (0.00070)	ND (0.00077)	ND (0.00097)	ND (0.00075)	ND (0.00089)	ND (0.00073)	ND (0.060)	ND (0.00089)	ND (0.0011)
Toluene	10,000	10,000	44	100	mg/kg	ND (0.061)	0.00231	ND (0.00084)	ND (0.00092)	ND (0.0012)	ND (0.00090)	ND (0.0011)	ND (0.00088)	ND (0.072)	ND (0.0011)	ND (0.0014)
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.051)	ND (0.00079)	ND (0.00070)	ND (0.00077)	ND (0.00097)	ND (0.00075)	ND (0.00089)	ND (0.00073)	ND (0.060)	ND (0.00089)	ND (0.0011)
Benzene	280	330	0.13	0.5	mg/kg	ND (0.051)	0.000931	0.00111	ND (0.00077)	0.00151	ND (0.00075)	ND (0.00089)	ND (0.00073)	ND (0.060)	ND (0.00089)	ND (0.0011)
Naphthalene	66	77	25	10	mg/kg	ND (0.200)	ND (0.0032)	ND (0.0028)	ND (0.0031)	ND (0.0039)	ND (0.0030)	ND (0.036)	ND (0.0029)	ND (0.240)	ND (0.0035)	ND (0.0045)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	ND (0.051)	0.000871	ND (0.00070)	ND (0.00077)	ND (0.00097)	ND (0.00075)	ND (0.00089)	ND (0.00073)	ND (0.060)	ND (0.00089)	ND (0.0011)
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.041)	ND (0.00064)	ND (0.00056)	ND (0.00061)	ND (0.00077)	ND (0.00060)	ND (0.00071)	ND (0.00059)	ND (0.048)	ND (0.00071)	ND (0.00091)

Notes:
Samples were collected by Stantec Consulting Services, Inc. on behalf of PBF Logistics Products Terminals LLC.
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic Soil to Groundwater MSCs Criteria or Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria)
Bolded and highlighted concentrations are exceedances of a corresponding MSC.
Numbers in parentheses represent the laboratory Method Detection Limit

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
ND = Not detected

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

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	1043-P5	1043-Center	1044-P1	1044-P2	1044-P3	1044-P4	1044-P5	1044-Center	Pipe 45	Pipe 46
Tank Containment Area						2	2	2	2	2	2	2	2	2	2
Date						8/5/2021	9/16/2021	8/12/2021	8/13/2021	8/12/2021	8/5/2021	8/11/2021	9/16/2021	8/5/2021	8/5/2021
Depth						3.0	5.0	3.0	3.0	3.0	3.0	3.0	5.0	2.0	2.0
Lab ID						410-50281-28	410-55731-3	410-51318-3	410-51318-6	410-51318-4	410-50281-12	410-51060-7	410-55731-1	410-50281-24	410-50281-26
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.00076)	ND (0.038)	ND (0.036)	ND (0.00057)	ND (0.00060)	ND (0.00054)	ND (0.00080)	ND (0.039)	ND (0.037)	ND (0.037)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.00095)	ND (0.047)	ND (0.045)	ND (0.00071)	ND (0.00075)	ND (0.00067)	ND (0.0010)	ND (0.049)	ND (0.047)	ND (0.046)
Toluene	10,000	10,000	44	100	mg/kg	ND (0.0011)	ND (0.057)	ND (0.053)	0.00151	ND (0.00090)	ND (0.00080)	ND (0.0012)	ND (0.059)	ND (0.056)	ND (0.055)
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.00095)	ND (0.047)	ND (0.045)	ND (0.00071)	ND (0.00075)	ND (0.00067)	ND (0.0010)	ND (0.049)	ND (0.047)	ND (0.046)
Benzene	280	330	0.13	0.5	mg/kg	0.00131	ND (0.047)	ND (0.045)	0.00361	ND (0.00075)	0.00131	ND (0.0010)	ND (0.049)	ND (0.047)	ND (0.046)
Naphthalene	66	77	25	10	mg/kg	ND (0.0038)	ND (0.190)	ND (0.180)	ND (0.0028)	ND (0.0030)	ND (0.0027)	ND (0.0040)	0.55	ND (0.190)	ND (0.180)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	ND (0.00095)	ND (0.047)	ND 90.045)	ND (0.00071)	ND (0.00075)	ND (0.00067)	ND (0.0010)	ND (0.049)	0.0751	ND (0.046)
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00076)	ND (0.038)	ND (0.036)	ND (0.00057)	ND (0.00060)	ND (0.00054)	ND (0.00080)	ND (0.039)	ND (0.037)	ND (0.037)

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	Pipe 58	Pipe 59	Pipe 60	Pipe 61	Pipe 62	Pipe 63	Pipe 64	Pipe 65	Pipe 66	Pipe 67
Tank Containment Area						2	2	2	2	2	2	2	2	2	2
Date						8/9/2021	8/9/2021	8/5/2021	8/5/2021	8/12/2021	8/12/2021	8/12/2021	8/12/2021	8/12/2021	8/9/2021
Depth						2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lab ID						410-50672-4	410-50672-5	410-50151-31	410-50151-8	410-51318-2	410-51318-1	410-51060-12	410-51060-14	410-51060-13	410-50672-8
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.00083)	ND (0.00076)	ND (0.00055)	ND (0.00047)	ND (0.046)	ND (0.00080)	ND (0.00077)	ND (0.00064)	ND (0.00070)	ND (0.00063)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.0010)	ND (0.00095)	ND (0.00069)	ND (0.00059)	ND (0.058)	ND (0.0010)	ND (0.00096)	ND (0.00080)	ND (0.00088)	ND (0.00079)
Toluene	10,000	10,000	44	100	mg/kg	ND (0.0012)	ND (0.0011)	0.00391	ND (0.00071)	ND (0.070)	ND (0.0012)	0.00191	ND (0.00096)	0.00451	0.00191
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.0010)	ND (0.00095)	ND (0.00069)	ND (0.00059)	ND (0.058)	ND (0.0010)	ND (0.00096)	ND (0.00080)	ND (0.00088)	ND (0.00079)
Benzene	280	330	0.13	0.5	mg/kg	ND (0.0010)	ND (0.00095)	0.00201	0.000971	ND (0.058)	ND (0.0010)	0.00221	0.000841	0.00321	0.00241
Naphthalene	66	77	25	10	mg/kg	ND (0.0041)	ND (0.0038)	0.00501	ND (0.0024)	ND (0.230)	ND (0.0040)	ND (0.0039)	ND (0.0032)	ND (0.0035)	ND (0.0031)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	ND (0.0010)	ND (0.00095)	ND (0.00069)	ND (0.00059)	ND (0.058)	ND (0.0010)	ND (0.00096)	ND (0.00080)	ND (0.00088)	ND (0.00079)
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00083)	ND (0.00076)	ND (0.00055)	ND (0.00047)	ND (0.046)	ND (0.00080)	ND (0.00077)	ND (0.00064)	ND (0.00070)	ND (0.00063)

Notes:
Samples were collected by Stantec Consulting Services, Inc. on behalf of PBF Logistics Products Terminals LLC.
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic Soil tc
Bolded and highlighted concentrations are exceedances of a corresponding MSC.
Numbers in parentheses represent the laboratory Method Detection Limit

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
ND = Not detected

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

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	941-P1	941-P2 / DUP-2		941-P3	941-P4	941-P5	941-Center	1248-P1	1248-P2	DUP-1	1248-P3
Tank Containment Area						3	3	3	3	3	3	3	3	3	3	3
Date						8/10/2021	8/10/2021	8/10/2021	8/10/2021	8/10/2021	8/10/2021	9/23/2021	8/4/2021	8/4/2021	8/4/2021	8/4/2021
Depth						3.0	2.0		3.0	3.0	3.0	5.0	3.0	3.0		3.0
Lab ID						410-50879-4	410-50672-11	410-50672-9	410-50879-1	410-50879-2	410-50879-3	410-56522-4	410-50151-18	410-50151-15	410-50151-16	410-50151-14
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.00031)	ND (0.00093)	ND (0.00077)	0.000811	ND (0.045)	ND (0.00076)	ND (0.00090)	ND (0.00046)	ND (0.00044)	ND (0.00047)	ND (0.00046)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.00038)	0.00321	0.00141	0.00221	ND (0.056)	0.00131	ND (0.0011)	ND (0.00058)	ND (0.00055)	ND (0.00059)	ND (0.00057)
Toluene	10,000	10,000	44	100	mg/kg	ND (0.00046)	0.040	0.018	0.037	ND (0.067)	0.030	ND (0.0013)	ND (0.00069)	ND (0.00066)	ND (0.00071)	ND (0.00069)
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.00038)	ND (0.0012)	ND (0.00096)	ND (0.00094)	ND (0.056)	ND (0.00095)	ND (0.0011)	ND (0.00058)	ND (0.00055)	ND (0.00059)	ND (0.00057)
Benzene	280	330	0.13	0.5	mg/kg	ND (0.00038)	0.028	0.017	0.046	ND (0.056)	0.038	ND (0.0011)	ND (0.00058)	ND (0.00055)	ND (0.00059)	ND (0.00057)
Naphthalene	66	77	25	10	mg/kg	ND (0.0015)	ND (0.0047)	ND (0.0038)	ND (0.0038)	ND (0.220)	ND (0.0038)	ND (0.0045)	ND (0.0023)	ND (0.0022)	ND (0.0024)	ND (0.0023)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	ND (0.00038)	0.00581	0.00221	0.00191	ND (0.056)	0.00141	ND (0.0011)	ND (0.00058)	ND (0.00055)	ND (0.00059)	ND (0.00057)
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00031)	ND (0.00093)	ND (0.00077)	ND (0.00075)	ND (0.045)	ND (0.00076)	ND (0.00090)	ND (0.00046)	ND (0.00044)	ND (0.00047)	ND (0.00046)

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	Pipe 6	Pipe 7	Pipe 8	Pipe 9	Pipe 10	Pipe 11	Pipe 12	Pipe 13	Pipe 14	Pipe 15	Pipe 16
Tank Containment Area						3	3	3	3	3	3	3	3	3	3	3
Date						8/4/2021	8/4/2021	8/4/2021	8/4/2021	8/4/2021	8/4/2021	8/4/2021	8/4/2021	8/4/2021	8/5/2021	8/4/2021
Depth						2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lab ID						410-50151-24	410-50151-22	410-50151-23	410-50151-26	410-50151-25	410-50151-10	410-50151-27	410-50151-28	410-50151-12	410-50151-2	410-50151-30
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.00047)	20	44	5.60	4.60	ND (0.00044)	0.3201	2.30	ND (0.00051)	ND (0.00043)	ND (0.00046)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.00059)	3.10	9.40	0.0841	0.0691	ND (0.00055)	1.10	ND (0.031)	0.00171	ND (0.00053)	ND (0.00057)
Toluene	10,000	10,000	44	100	mg/kg	ND (0.00071)	0.0991	0.0971	ND (0.035)	0.0431	ND (0.00067)	ND (0.044)	ND (0.037)	ND (0.00077)	ND (0.00064)	ND (0.00069)
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.00059)	ND (0.034)	ND (0.034)	ND (0.029)	ND (0.032)	ND (0.00055)	ND (0.036)	ND (0.031)	ND (0.00064)	ND (0.00053)	ND (0.00057)
Benzene	280	330	0.13	0.5	mg/kg	ND (0.00059)	0.0581	0.0371	ND (0.029)	ND (0.032)	ND (0.00055)	ND (0.036)	ND (0.031)	ND (0.00064)	ND (0.00053)	ND (0.00057)
Naphthalene	66	77	25	10	mg/kg	ND (0.0024)	11	11	2.50	0.2301	ND (0.0022)	1.20	2.90	ND (0.0026)	ND (0.0021)	ND (0.0023)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	ND (0.00059)	150	150	0.2601	0.810	ND (0.00055)	2.70	0.0901	0.00251	ND (0.00053)	ND (0.00057)
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00047)	7.3	6.3	2.10	4.30	ND (0.00044)	0.2601	3.60	0.000591	ND (0.00043)	ND (0.00046)

Notes:
Samples were collected by Stantec Consulting Services, Inc. on behalf of PBF Logistics Products Terminals LLC.
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic Soil to Groundwater MSCs Criteria or Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria)
Bolded and highlighted concentrations are exceedances of a corresponding MSC.
Numbers in parentheses represent the laboratory Method Detection Limit

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
ND = Not detected

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

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	1248-P4	1248-P5	1248-Center	DUP-8	2040-P1	2040-P2	2040-P3	2040-P4	2040-P5	2040-Center	2045-P1
Tank Containment Area						3	3	3	3	3	3	3	3	3	3	3
Date						8/4/2021	8/4/2021	9/16/2021	9/16/2021	8/11/2021	8/11/2011	8/11/2011	8/11/2011	8/11/2011	9/23/2021	8/10/2021
Depth						3.0	3.0	5.0	5.0	3.0	3.0	3.0	3.0	3.0	5.0	3.0
Lab ID						410-50151-13	410-50151-11	410-55731-4	410-55731-5	410-50879-23	410-50879-16	410-50879-17	410-50879-18	410-50879-19	410-56522-2	410-50879-8
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.00049)	ND (0.00023)	ND (0.030)	ND (0.031)	ND (0.00068)	ND (0.00057)	ND (0.00042)	ND (0.00041)	ND (0.00076)	ND (0.00075)	0.000731
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.00062)	ND (0.00029)	ND (0.037)	ND (0.039)	ND (0.00086)	ND (0.00071)	ND (0.00052)	ND (0.00051)	ND (0.00094)	ND (0.00094)	ND (0.00075)
Toluene	10,000	10,000	44	100	mg/kg	ND (0.00074)	ND (0.00035)	ND (0.045)	ND (0.047)	ND (0.0010)	0.000951	ND (0.00062)	ND (0.00061)	0.00511	ND (0.0011)	0.00121
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.00062)	ND (0.00029)	ND (0.037)	ND (0.039)	ND (0.00086)	ND (0.00071)	ND (0.00052)	ND (0.00051)	ND (0.00094)	ND (0.00094)	ND (0.00075)
Benzene	280	330	0.13	0.5	mg/kg	ND (0.00062)	ND (0.00029)	ND (0.037)	ND (0.039)	ND (0.00086)	0.00131	ND (0.00052)	ND (0.00051)	0.00451	ND (0.00094)	0.011
Naphthalene	66	77	25	10	mg/kg	ND (0.0025)	ND (0.120)	ND (0.150)	ND (0.160)	ND (0.0034)	ND (0.0029)	ND (0.0021)	ND (0.0020)	ND (0.0038)	ND (0.0038)	ND (0.0030)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	ND (0.0062)	ND (0.029)	ND (0.037)	ND (0.039)	ND (0.00086)	ND (0.00071)	ND (0.00052)	ND (0.00051)	ND (0.00094)	ND (0.00094)	ND (0.00075)
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00049)	ND (0.023)	ND (0.030)	ND (0.031)	ND (0.00068)	ND (0.00057)	ND (0.00042)	ND (0.00041)	ND (0.00076)	ND (0.00075)	ND (000060)

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	Pipe 17	Pipe 18	Pipe 19	Pipe 20	Pipe 21	Pipe 22	Pipe 23	Pipe 24	Pipe 25	Pipe 26	Pipe 27
Tank Containment Area						3	3	3	3	3	3	3	3	3	3	3
Date						8/4/2021	8/10/2021	8/10/2021	8/10/2021	8/10/2021	8/10/2021	8/10/2021	8/10/2021	8/10/2021	8/11/2021	8/11/2021
Depth						2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lab ID						410-50151-29	410-50672-12	410-50672-10	410-50672-17	410-50672-18	410-50672-19	410-50672-13	410-50672-14	410-50672-15	410-50879-21	410-51060-1
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.021)	ND (0.00081)	ND (0.00071)	ND (0.00075)	ND (0.00071)	ND (0.039)	ND (0.00079)	ND (0.00068)	ND (0.00080)	ND (0.00063)	ND (0.061)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.027)	ND (0.0010)	0.00401	ND (0.00093)	ND (0.00089)	0.0511	ND (0.00099)	0.00191	0.00161	ND (0.00079)	ND (0.077)
Toluene	10,000	10,000	44	100	mg/kg	ND (0.032)	0.00131	0.031	0.00401	ND (0.0011)	0.0611	0.025	0.020	0.140	ND (0.0095)	ND (0.092)
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.027)	ND (0.0010)	ND (0.00089)	ND (0.00093)	ND (0.00089)	ND (0.048)	ND (0.00099)	ND (0.00085)	0.00221	ND (0.00079)	ND (0.077)
Benzene	280	330	0.13	0.5	mg/kg	ND (0.027)	0.00281	0.027	0.00371	ND (0.00089)	ND (0.048)	0.014	0.00831	0.032	ND (0.00079)	ND (0.077)
Naphthalene	66	77	25	10	mg/kg	ND (0.110)	ND (0.0040)	ND (0.0036)	ND (0.0037)	ND (0.0036)	ND (0.190)	ND (0.0039)	ND (0.0034)	ND (0.0040)	ND (0.0032)	ND (0.310)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	0.0271	ND (0.0010)	0.00531	ND (0.00093)	ND (0.00089)	0.0991	0.00141	0.00331	0.00371	ND (0.00079)	ND (0.077)
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.021)	ND (0.00081)	ND (0.00071)	ND (0.00075)	ND (0.00071)	ND (0.039)	ND (0.00079)	ND (0.00068)	ND (0.00080)	ND (0.00063)	ND (0.061)

Notes:
Samples were collected by Stantec Consulting Services, Inc. on behalf of PBF Logistics Products Terminals LLC.
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic Soil to Grou
Bolded and highlighted concentrations are exceedances of a corresponding MSC.
Numbers in parentheses represent the laboratory Method Detection Limit

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
ND = Not detected

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

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	2045-P2	2045-P3	2045-P4	2045-P5	2045-Center	4847-P1	4847-P2	4847-P3	4847-P4	4847-P5	4847-P6
Tank Containment Area						3	3	3	3	3	3	3	3	3	3	3
Date						8/13/2021	8/10/2021	8/13/2021	8/13/2021	9/23/2021	8/5/2021	8/5/2021	8/5/2021	8/11/2021	9/23/2021	8/5/2021
Depth						3.0	3.0	3.0	3.0	5.0	3.0	3.0	3.0	3.0	3.0	3.0
Lab ID						410-51318-7	410-50879-7	410-51318-8	410-51318-9	410-56522-3	410-50151-4	410-50151-3	410-50151-5	410-50879-22	410-56522-1	410-50151-1
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.00056)	ND (0.00082)	0.0661	0.67	ND (0.00065)	ND (0.00045)	ND (0.00041)	ND (0.00039)	ND (0.00041)	ND (0.00067)	ND (0.00052)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.00070)	ND (0.0010)	0.2301	15	ND (0.00082)	ND (0.00057)	ND (0.00051)	ND (0.00049)	ND (0.00052)	ND (0.00084)	ND (0.00064)
Toluene	10,000	10,000	44	100	mg/kg	0.00331	0.00201	ND (0.082)	ND (0.071)	ND (0.00098)	ND (0.00068)	ND (0.00061)	ND (0.00059)	ND (0.00062)	ND (0.0010)	ND (0.00077)
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.00070)	ND (0.0010)	ND (0.069)	ND (0.059)	ND (0.00082)	ND (0.00057)	ND (0.00051)	ND (0.00049)	ND (0.00052)	ND (0.00084)	ND (0.00064)
Benzene	280	330	0.13	0.5	mg/kg	0.00141	0.00751	ND (0.069)	ND (0.059)	ND (0.00082)	ND (0.00057)	ND (0.00051)	ND (0.00049)	ND (0.00052)	ND (0.00084)	ND (0.00064)
Naphthalene	66	77	25	10	mg/kg	ND (0.0028)	ND (0.0041)	ND (0.270)	13	ND (0.0033)	ND (0.0023)	ND (0.0020)	ND (0.0020)	ND (0.0021)	ND (0.0034)	ND (0.0026)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	0.00121	ND (0.0010)	0.5201	1.5	ND (0.00082)	ND (0.00057)	ND (0.00051)	ND (0.00049)	ND (0.00052)	ND (0.00084)	ND (0.00064)
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00056)	ND (0.00082)	ND (0.055)	ND (0.047)	ND (0.00065)	ND (0.00045)	ND (0.00041)	ND (0.0039)	ND (0.00041)	ND (0.00067)	ND (0.00052)

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	Pipe 28	Pipe 29	DUP-7	Pipe 30	Pipe 31	Pipe-32	Pipe 33	Pipe 34	Pipe 35	Pipe 36	Pipe 37
Tank Containment Area						3	3	3	3	3	3	3	3	3	3	3
Date						8/11/2021	8/11/2021	8/11/2021	8/11/2021	8/11/2011	8/10/2021	8/10/2021	8/10/2021	8/10/2021	8/10/2021	8/10/2021
Depth						2.0	2.0		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lab ID						410-50879-24	410-51060-2	410-51060-3	410-51060-4	410-50879-20	410-50879-5	410-50879-6	410-50879-9	410-50879-10	410-50879-11	410-50879-12
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.00074)	1.0	1.6	ND (0.055)	ND (0.00079)	ND (0.00077)	ND (0.00080)	0.1001	ND (0.00088)	ND (0.00081)	ND (0.00088)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.00093)	18	34	0.2101	ND (0.00099)	0.000981	ND (0.0010)	0.6101	0.00361	ND (0.0010)	ND (0.0011)
Toluene	10,000	10,000	44	100	mg/kg	0.00281	4.1	0.1801	0.0881	ND (0.0012)	0.00301	0.00661	ND (0.120)	0.00481	ND (0.0012)	ND (0.0013)
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.00093)	ND (0.059)	ND (0.067)	ND (0.069)	ND (0.00099)	ND (0.00096)	ND (0.0010)	ND (0.100)	ND (0.0011)	ND (0.0010)	ND (0.0011)
Benzene	280	330	0.13	0.5	mg/kg	0.00141	**0.66**	ND (0.067)	ND (0.069)	ND (0.00099)	0.00511	0.00911	ND (0.100)	0.00741	0.00181	ND (0.0011)
Naphthalene	66	77	25	10	mg/kg	ND (0.0037)	4.8	3.1	ND (0.280)	ND (0.0040)	ND (0.0038)	ND (0.0040)	ND (0.410)	ND (0.0044)	ND (0.0041)	ND (0.0044)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	ND (0.00093)	10	100	0.3301	ND (0.00099)	0.00121	ND (0.0010)	1.0	0.00581	ND (0.0010)	ND (0.0011)
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.00074)	0.2401	2.4	ND (0.055)	ND (0.00079)	ND (0.00077)	ND (0.00080)	ND (0.083)	ND (0.00088)	ND (0.00081)	ND (0.00088)

Notes:
Samples were collected by Stantec Consulting Services, Inc. on behalf of PBF Logistics Products Terminals LLC.
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic Soil to Grou
Bolded and highlighted concentrations are exceedances of a corresponding MSC.
Numbers in parentheses represent the laboratory Method Detection Limit

Acronyms and Abbreviations:
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Table 3
Tank Containment Area 3
Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	4847-Center	4847-East	4847-West	Pipe 1	Pipe 2	Pipe 3	Pipe 4	Pipe 5
Tank Containment Area						3	3	3	3	3	3	3	3
Date						9/16/2021	9/16/2021	9/16/2021	8/4/2021	8/4/2021	8/4/2021	8/11/2021	8/4/2021
Depth						5.0	5.0	5.0	2.0	2.0	2.0	2.0	2.0
Lab ID						410-55731-7	410-55731-6	410-55731-8	410-50151-17	410-50151-19	410-50151-20	410-51060-5	410-50151-21
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.027)	ND (0.00040)	ND (0.00051)	ND (0.00044)	ND (0.00018)	ND (0.00046)	ND (0.00043)	ND (0.026)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.033)	ND (0.00050)	ND (0.00064)	ND (0.00055)	ND (0.00023)	ND (0.00058)	ND (0.00054)	ND (0.033)
Toluene	10,000	10,000	44	100	mg/kg	ND (0.040)	ND (0.00059)	ND (0.00076)	ND (0.00066)	ND (0.00028)	ND (0.00069)	ND (0.00065)	ND (0.039)
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.033)	ND (0.00050)	ND (0.00064)	ND (0.00055)	ND (0.00023)	ND (0.00058)	ND (0.00054)	ND (0.033)
Benzene	280	330	0.13	0.5	mg/kg	ND (0.033)	ND (0.00050)	ND (0.00064)	ND (0.00055)	ND (0.00023)	ND (0.00058)	ND (0.00054)	ND (0.033)
Naphthalene	66	77	25	10	mg/kg	ND (0.130)	ND (0.0020)	ND (0.0025)	ND (0.0022)	ND (0.00092)	ND (0.0023)	ND (0.0022)	ND (0.130)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	ND (0.033)	ND (0.00050)	ND (0.00064)	ND (0.00055)	ND (0.00023)	ND (0.00058)	ND (0.00054)	ND (0.033)
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.027)	ND (0.00040)	ND (0.00051)	ND (0.00044)	ND (0.00018)	ND (0.00046)	ND (0.00043)	ND (0.026)

Sample ID	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	Units	Pipe 38	Pipe 39	DUP-06	Pipe 40	Pipe 41	Pipe 42	Pipe 43	Pipe 44
Tank Containment Area						3	3	3	3	3	3	3	3
Date						8/10/2021	8/10/2021	8/10/2021	8/10/2021	8/13/2021	8/13/2021	8/13/2021	8/11/2021
Depth						2.0	2.0		2.0	2.0	2.0	2.0	2.0
Lab ID						410-50879-13	410-50879-14	410-50879-26	410-50879-15	410-51318-12	410-51318-11	410-51318-10	410-51060-6
Ethylbenzene	880	1,000	46	70	mg/kg	ND (0.064)	ND (0.00088)	ND (0.048)	0.0631	ND (0.00065)	0.041	ND (0.00071)	ND (0.061)
1,3,5-Trimethylbenzene	4,700	5,400	93	53	mg/kg	ND (0.080)	ND (0.011)	ND (0.059)	ND (0.071)	ND (0.00081)	0.000961	0.00761	0.1401
Toluene	10,000	10,000	44	100	mg/kg	ND (0.096)	ND (0.0013)	ND (0.071)	0.1601	ND (0.00097)	0.00121	ND (0.0011)	ND (0.092)
Methyl tertiary butyl ether	8,500	9,800	0.28	2	mg/kg	ND (0.080)	ND (0.0011)	ND (0.059)	ND (0.071)	ND (0.00081)	ND (0.00091)	ND (0.00089)	ND (0.077)
Benzene	280	330	0.13	0.5	mg/kg	ND (0.080)	ND (0.0011)	ND (0.059)	ND (0.071)	ND (0.00081)	ND (0.00091)	ND (0.00089)	ND (0.077)
Naphthalene	66	77	25	10	mg/kg	ND (0.320)	ND (0.0044)	ND (0.240)	ND (0.280)	ND (0.0032)	ND (0.0036)	ND (0.0035)	ND (0.310)
1,2,4-Trimethylbenzene	4,700	5,400	300	53	mg/kg	ND (0.080)	ND (0.0011)	ND (0.059)	ND (0.071)	ND (0.00081)	0.00141	0.015	0.2201
Isopropylbenzene	10,000	10,000	2500	350	mg/kg	ND (0.064)	ND (0.00086)	ND (0.048)	ND (0.057)	ND (0.00065)	0.00141	ND (0.00071)	ND (0.061)

Notes:
Samples were collected by Stantec Consulting Services, Inc. on behalf of PBF Logistics Products Terminals LLC.
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic Soil to Grou
Bolded and highlighted concentrations are exceedances of a corresponding MSC.
Numbers in parentheses represent the laboratory Method Detection Limit

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
ND = Not detected

Table 4
Tank Containment Area 1
Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	SB-101 (1.5-2)				SB-102 (2.5-3)				SB-103 (4.5-5)				SB-104 (4.5-5)				SB-105 (4.5-5)			
TANK CONTAINMENT AREA					1				1				1				1				1			
LAB ID:					L2158500-01				L2158500-02				L2158500-03				L2158500-04				L2158500-05			
COLLECTION DATE:					10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021			
SAMPLE DEPTH:					1.5-2				2.5-3				4.5-5				4.5-5				4.5-5			
SAMPLE MATRIX:					SOIL				SOIL				SOIL				SOIL				SOIL			
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY EPA 5035																								
1,2,4-Trimethylbenzene	4700	5400	300	53	30		0.23	0.038	0.0035		0.0023	0.00038	130	E	0.52	0.087	7.3		0.59	0.099	38		0.29	0.049
1,2-Dibromoethane	3.7	4.2	0.0012	0.005	*0.033*	U	0.056	0.033	0.00034	U	0.00057	0.00034	*0.077*	U	0.13	0.077	*0.087*	U	0.15	0.087	*0.043*	U	0.073	0.043
1,2-Dichloroethane	85	98	0.1	0.5	0.029	U	0.11	0.029	0.0003	U	0.0011	0.0003	0.067	U	0.26	0.067	0.076	U	0.3	0.076	0.038	U	0.15	0.038
1,3,5-Trimethylbenzene	4700	5400	93	53	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Benzene	280	330	0.13	0.5	0.16		0.056	0.019	0.00026	J	0.00057	0.00019	0.043	U	0.13	0.043	0.049	U	0.15	0.049	1.8		0.073	0.024
Ethylbenzene	880	1000	46	70	0.84		0.11	0.016	0.00037	J	0.0011	0.00016	12		0.26	0.037	0.15	J	0.3	0.042	8.3		0.15	0.021
Isopropylbenzene	10000	10000	2500	350	0.76		0.11	0.012	0.00015	J	0.0011	0.00012	12		0.26	0.028	0.33		0.3	0.032	4.4		0.15	0.016
Methyl tert butyl ether	8500	9800	0.28	2	0.023	U	0.23	0.023	0.00023	U	0.0023	0.00023	0.052	U	0.52	0.052	0.06	U	0.59	0.06	0.03	U	0.29	0.03
Naphthalene	66	77	25	10	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Toluene	10000	10000	44	100	0.78		0.11	0.061	0.00096	J	0.0011	0.00062	0.22	J	0.26	0.14	0.16	U	0.3	0.16	5.5		0.15	0.08
Xylenes, Total	7900	9100	990	1000	4.6		0.11	0.033	0.0023	J	0.0011	0.00033	12		0.26	0.076	0.87	J	0.3	0.086	24		0.15	0.043
VOLATILE ORGANICS BY EPA 5035 HIGH																								
1,2,4-Trimethylbenzene	4700	5400	300	53	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
1,2-Dibromoethane	3.7	4.2	0.0012	0.005	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
1,2-Dichloroethane	85	98	0.1	0.5	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
1,3,5-Trimethylbenzene	4700	5400	93	53	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Benzene	280	330	0.13	0.5	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Ethylbenzene	880	1000	46	70	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Isopropylbenzene	10000	10000	2500	350	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Methyl tert butyl ether	8500	9800	0.28	2	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Naphthalene	66	77	25	10	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Toluene	10000	10000	44	100	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Xylenes, Total	7900	9100	990	1000	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
TOTAL METALS																								
Lead, Total	1000	190000	450	0.5	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-

Notes:
Samples were collected by Arcadis on behalf of Alliance 51st Street LLC
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic Soil to Groundwater MSCs Criteria or Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria)
Bolded and highlighted concentrations are exceedances of a corresponding MSC.

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
Q - Qualifier
Conc - Concentration
RL - Reporting Limit
MDL - Minimum Detection Limit
U - Compound was undetected at the listed laboratory method detection limit.
J - The compound was detected; however, the concentration is below the laboratory method detection limit. Accordingly, this concentration is estimated.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Table 4
Tank Containment Area 1
Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	SB-106 (4.5-5)				SB-107 (4.5-5)				SB-205 (3.5-4)				SB-206 (2.5-3)			
TANK CONTAINMENT AREA					1				1				1				1			
LAB ID:					L2158500-06				L2158500-07				L2213931-06				L2213931-07			
COLLECTION DATE:					10/25/2021				10/25/2021				3/16/2022				3/17/2022			
SAMPLE DEPTH:					4.5-5				4.5-5				3.5-4				2.5-3			
SAMPLE MATRIX:					SOIL				SOIL				SOIL				SOIL			
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY EPA 5035																				
1,2,4-Trimethylbenzene	4700	5400	300	53	0.017		0.0034	0.00058	0.00076	J	0.0042	0.00071	2.7		0.67	0.11	0.022		0.0041	0.00068
1,2-Dibromoethane	3.7	4.2	0.0012	0.005	0.0005	U	0.00086	0.0005	0.00062	U	0.0011	0.00062	*0.098*	U	0.17	0.098	0.0006	U	0.001	0.0006
1,2-Dichloroethane	85	98	0.1	0.5	0.00044	U	0.0017	0.00044	0.00054	U	0.0021	0.00054	0.086	U	0.33	0.086	0.00052	U	0.002	0.00052
1,3,5-Trimethylbenzene	4700	5400	93	53	-		-	-	-		-	-	1.2		0.67	0.064	0.017		0.0041	0.00039
Benzene	280	330	0.13	0.5	0.0094		0.00086	0.00029	0.00035	U	0.0011	0.00035	0.091	J	0.17	0.055	0.0031		0.001	0.00034
Ethylbenzene	880	1000	46	70	0.0054		0.0017	0.00024	0.0003	U	0.0021	0.0003	0.32	J	0.33	0.047	0.0054		0.002	0.00029
Isopropylbenzene	10000	10000	2500	350	0.0026		0.0017	0.00019	0.00023	U	0.0021	0.00023	0.21	J	0.33	0.036	0.00067	J	0.002	0.00022
Methyl tert butyl ether	8500	9800	0.28	2	0.00049	J	0.0034	0.00035	0.00043	U	0.0042	0.00043	0.067	U	0.67	0.067	0.00041	U	0.0041	0.00041
Naphthalene	66	77	25	10	-		-	-	-		-	-	0.39	J	1.3	0.22	0.0051	J	0.0082	0.0013
Toluene	10000	10000	44	100	0.017		0.0017	0.00094	0.0012	U	0.0021	0.0012	0.62		0.33	0.18	0.013		0.002	0.0011
Xylenes, Total	7900	9100	990	1000	0.047		0.0017	0.0005	0.00062	U	0.0021	0.00062	1.7	J	0.33	0.097	0.032		0.002	0.00059
VOLATILE ORGANICS BY EPA 5035 HIGH																				
1,2,4-Trimethylbenzene	4700	5400	300	53	-		-	-	-		-	-	-		-	-	-		-	-
1,2-Dibromoethane	3.7	4.2	0.0012	0.005	-		-	-	-		-	-	-		-	-	-		-	-
1,2-Dichloroethane	85	98	0.1	0.5	-		-	-	-		-	-	-		-	-	-		-	-
1,3,5-Trimethylbenzene	4700	5400	93	53	-		-	-	-		-	-	-		-	-	-		-	-
Benzene	280	330	0.13	0.5	-		-	-	-		-	-	-		-	-	-		-	-
Ethylbenzene	880	1000	46	70	-		-	-	-		-	-	-		-	-	-		-	-
Isopropylbenzene	10000	10000	2500	350	-		-	-	-		-	-	-		-	-	-		-	-
Methyl tert butyl ether	8500	9800	0.28	2	-		-	-	-		-	-	-		-	-	-		-	-
Naphthalene	66	77	25	10	-		-	-	-		-	-	-		-	-	-		-	-
Toluene	10000	10000	44	100	-		-	-	-		-	-	-		-	-	-		-	-
Xylenes, Total	7900	9100	990	1000	-		-	-	-		-	-	-		-	-	-		-	-
TOTAL METALS																				
Lead, Total	1000	190000	450	0.5	-		-	-	-		-	-	-		-	-	-		-	-

Notes:
Samples were collected by Arcadis on behalf of Alliance 51st Street LLC
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic
Bolded and highlighted concentrations are exceedances of a corresponding MSC.

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
Q - Qualifier
Conc - Concentration
RL - Reporting Limit
MDL - Minimum Detection Limit
U - Compound was undetected at the listed laboratory method detection limit.
J - The compound was detected; however, the concentration is below the laboratory method detection limit. Accordingly, this concentrat
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Table 4
Tank Containment Area 1
Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	SB-207 (4-4.5)				SB-208 (4-4.5)				SB-209 (3.5-4)				SB-210 (4-4.5)			
TANK CONTAINMENT AREA					1				1				1				1			
LAB ID:					L2213931-08				L2213931-09				L2213931-10				L2213931-11			
COLLECTION DATE:					3/17/2022				3/17/2022				3/17/2022				3/17/2022			
SAMPLE DEPTH:					4-4.5				4-4.5				3.5-4				4-4.5			
SAMPLE MATRIX:					SOIL				SOIL				SOIL				SOIL			
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY EPA 5035																				
1,2,4-Trimethylbenzene	4700	5400	300	53	0.047		0.0031	0.00052	0.00043	U	0.0026	0.00043	0.0022	J	0.0038	0.00064	0.00031	U	0.0019	0.00031
1,2-Dibromoethane	3.7	4.2	0.0012	0.005	0.00045	U	0.00077	0.00045	0.00038	U	0.00064	0.00038	0.00056	U	0.00096	0.00056	0.00027	U	0.00047	0.00027
1,2-Dichloroethane	85	98	0.1	0.5	0.0004	U	0.0015	0.0004	0.00033	U	0.0013	0.00033	0.00054	J	0.0019	0.0005	0.00024	U	0.00093	0.00024
1,3,5-Trimethylbenzene	4700	5400	93	53	0.035		0.0031	0.0003	0.00025	U	0.0026	0.00025	0.0085		0.0038	0.00037	0.00018	U	0.0019	0.00018
Benzene	280	330	0.13	0.5	0.021		0.00077	0.00026	0.00021	U	0.00064	0.00021	0.0014		0.00096	0.00032	0.00015	U	0.00047	0.00015
Ethylbenzene	880	1000	46	70	0.013		0.0015	0.00022	0.00018	U	0.0013	0.00018	0.00048	J	0.0019	0.00027	0.00013	U	0.00093	0.00013
Isopropylbenzene	10000	10000	2500	350	0.0078		0.0015	0.00017	0.00014	U	0.0013	0.00014	0.00022	J	0.0019	0.00021	0.0001	U	0.00093	0.0001
Methyl tert butyl ether	8500	9800	0.28	2	0.00031	U	0.0031	0.00031	0.00069	J	0.0026	0.00026	0.00039	U	0.0038	0.00039	0.0006	J	0.0019	0.00019
Naphthalene	66	77	25	10	0.13		0.0062	0.001	0.00084	U	0.0052	0.00084	0.0017	J	0.0077	0.0012	0.00061	U	0.0037	0.00061
Toluene	10000	10000	44	100	0.024		0.0015	0.00084	0.00095	J	0.0013	0.0007	0.0025		0.0019	0.001	0.00051	U	0.00093	0.00051
Xylenes, Total	7900	9100	990	1000	0.055		0.0015	0.00045	0.00038	U	0.0013	0.00038	0.0027	J	0.0019	0.00056	0.00027	U	0.00093	0.00027
VOLATILE ORGANICS BY EPA 5035 HIGH																				
1,2,4-Trimethylbenzene	4700	5400	300	53	0.47		0.21	0.035	-		-	-	-		-	-	-		-	-
1,2-Dibromoethane	3.7	4.2	0.0012	0.005	*0.031*	U	0.053	0.031	-		-	-	-		-	-	-		-	-
1,2-Dichloroethane	85	98	0.1	0.5	0.027	U	0.11	0.027	-		-	-	-		-	-	-		-	-
1,3,5-Trimethylbenzene	4700	5400	93	53	0.45		0.21	0.02	-		-	-	-		-	-	-		-	-
Benzene	280	330	0.13	0.5	0.19		0.053	0.018	-		-	-	-		-	-	-		-	-
Ethylbenzene	880	1000	46	70	0.34		0.11	0.015	-		-	-	-		-	-	-		-	-
Isopropylbenzene	10000	10000	2500	350	0.12		0.11	0.012	-		-	-	-		-	-	-		-	-
Methyl tert butyl ether	8500	9800	0.28	2	0.029	J	0.21	0.021	-		-	-	-		-	-	-		-	-
Naphthalene	66	77	25	10	0.15	J	0.42	0.069	-		-	-	-		-	-	-		-	-
Toluene	10000	10000	44	100	0.53		0.11	0.058	-		-	-	-		-	-	-		-	-
Xylenes, Total	7900	9100	990	1000	1.5		0.11	0.031	-		-	-	-		-	-	-		-	-
TOTAL METALS																				
Lead, Total	1000	190000	450	0.5	-		-	-	-		-	-	-		-	-	-		-	-

Notes:
Samples were collected by Arcadis on behalf of Alliance 51st Street LLC
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic
Bolded and highlighted concentrations are exceedances of a corresponding MSC.

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
Q - Qualifier
Conc - Concentration
RL - Reporting Limit
MDL - Minimum Detection Limit
U - Compound was undetected at the listed laboratory method detection limit.
J - The compound was detected; however, the concentration is below the laboratory method detection limit. Accordingly, this concentrat
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Table 4
Tank Containment Area 1
Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	SB-211 (3.5-4)				SB-212 (4.5-5)				SB-213 (4-4.5)				SB-214 (4-4.5)			
TANK CONTAINMENT AREA					1				1				1				1			
LAB ID:					L2213931-12				L2213931-13				L2213931-14				L2213931-15			
COLLECTION DATE:					3/17/2022				3/17/2022				3/17/2022				3/17/2022			
SAMPLE DEPTH:					3.5-4				4.5-5				4-4.5				4-4.5			
SAMPLE MATRIX:					SOIL				SOIL				SOIL				SOIL			
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY EPA 5035																				
1,2,4-Trimethylbenzene	4700	5400	300	53	0.0004	U	0.0024	0.0004	0.0029		0.0028	0.00047	20		1.2	0.19	0.00046	J	0.0021	0.00035
1,2-Dibromoethane	3.7	4.2	0.0012	0.005	0.00035	U	0.00059	0.00035	0.00041	U	0.0007	0.00041	*0.17*	U	0.29	0.17	0.00031	U	0.00053	0.00031
1,2-Dichloroethane	85	98	0.1	0.5	0.0003	U	0.0012	0.0003	0.00036	U	0.0014	0.00036	*0.15*	U	0.58	0.15	0.00027	U	0.001	0.00027
1,3,5-Trimethylbenzene	4700	5400	93	53	0.00023	U	0.0024	0.00023	0.0024	J	0.0028	0.00027	8.5		1.2	0.11	0.00021	J	0.0021	0.0002
Benzene	280	330	0.13	0.5	0.0002	U	0.00059	0.0002	0.0011		0.0007	0.00023	1.8		0.29	0.096	0.0003	J	0.00053	0.00018
Ethylbenzene	880	1000	46	70	0.00017	U	0.0012	0.00017	0.00046	J	0.0014	0.0002	4.7		0.58	0.082	0.00015	U	0.001	0.00015
Isopropylbenzene	10000	10000	2500	350	0.00013	U	0.0012	0.00013	0.00019	J	0.0014	0.00015	1.3		0.58	0.063	0.00012	U	0.001	0.00012
Methyl tert butyl ether	8500	9800	0.28	2	0.00024	U	0.0024	0.00024	0.0014	J	0.0028	0.00028	0.12	U	1.2	0.12	0.00021	U	0.0021	0.00021
Naphthalene	66	77	25	10	0.0012	J	0.0048	0.00077	0.12		0.0056	0.00092	1700	E	2.3	0.38	0.052		0.0042	0.00069
Toluene	10000	10000	44	100	0.00064	U	0.0012	0.00064	0.0023		0.0014	0.00076	4.6		0.58	0.31	0.00057	U	0.001	0.00057
Xylenes, Total	7900	9100	990	1000	0.00034	U	0.0012	0.00034	0.0052		0.0014	0.00041	18		0.58	0.17	0.00031	U	0.001	0.00031
VOLATILE ORGANICS BY EPA 5035 HIGH																				
1,2,4-Trimethylbenzene	4700	5400	300	53	-		-	-	-		-	-	-		-	-	-		-	-
1,2-Dibromoethane	3.7	4.2	0.0012	0.005	-		-	-	-		-	-	-		-	-	-		-	-
1,2-Dichloroethane	85	98	0.1	0.5	-		-	-	-		-	-	-		-	-	-		-	-
1,3,5-Trimethylbenzene	4700	5400	93	53	-		-	-	-		-	-	-		-	-	-		-	-
Benzene	280	330	0.13	0.5	-		-	-	-		-	-	-		-	-	-		-	-
Ethylbenzene	880	1000	46	70	-		-	-	-		-	-	-		-	-	-		-	-
Isopropylbenzene	10000	10000	2500	350	-		-	-	-		-	-	-		-	-	-		-	-
Methyl tert butyl ether	8500	9800	0.28	2	-		-	-	-		-	-	-		-	-	-		-	-
Naphthalene	66	77	25	10	-		-	-	-		-	-	-		-	-	-		-	-
Toluene	10000	10000	44	100	-		-	-	-		-	-	-		-	-	-		-	-
Xylenes, Total	7900	9100	990	1000	-		-	-	-		-	-	-		-	-	-		-	-
TOTAL METALS																				
Lead, Total	1000	190000	450	0.5	-		-	-	-		-	-	-		-	-	-		-	-

Notes:

Samples were collected by Arcadis on behalf of Alliance 51st Street LLC

Concentrations reported in milligrams per kilogram (mg/kg)

Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic

Bolded and highlighted concentrations are exceedances of a corresponding MSC.

Acronyms and Abbreviations:

' = foot/feet

ID = identification

MSC = Medium Specific Concentration

Q - Qualifier

Conc - Concentration

RL - Reporting Limit

MDL - Minimum Detection Limit

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

J - The compound was detected; however, the concentration is below the laboratory method detection limit. Accordingly, this concentrat

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Table 4
Tank Containment Area 1
Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	SB-215 (4.5-5)				SB-215 (4.5-5)				SB-215 (4.5-5)				SB-216 (3.5-4)			
TANK CONTAINMENT AREA					1				1				1				1			
LAB ID:					L2213931-16				L2213931-16 R1				L2213931-16 R2				L2213931-17			
COLLECTION DATE:					3/17/2022				3/17/2022				3/17/2022				3/17/2022			
SAMPLE DEPTH:					4.5-5				4.5-5				4.5-5				3.5-4			
SAMPLE MATRIX:					SOIL				SOIL				SOIL				SOIL			
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY EPA 5035																				
1,2,4-Trimethylbenzene	4700	5400	300	53	0.48		0.0034	0.00056	0.46		0.0032	0.00054	-		-	-	0.2		0.0028	0.00047
1,2-Dibromoethane	3.7	4.2	0.0012	0.005	0.00049	U	0.00084	0.00049	0.00047	U	0.0008	0.00047	-		-	-	0.00041	U	0.0007	0.00041
1,2-Dichloroethane	85	98	0.1	0.5	0.00044	J	0.0017	0.00043	0.00043	J	0.0016	0.00041	-		-	-	0.00036	U	0.0014	0.00036
1,3,5-Trimethylbenzene	4700	5400	93	53	0.53	E	0.0034	0.00032	0.51	E	0.0032	0.00031	-		-	-	0.43	E	0.0028	0.00027
Benzene	280	330	0.13	0.5	0.015		0.00084	0.00028	0.014		0.0008	0.00027	-		-	-	0.0054		0.0007	0.00023
Ethylbenzene	880	1000	46	70	0.039		0.0017	0.00024	0.038		0.0016	0.00023	-		-	-	0.0058		0.0014	0.0002
Isopropylbenzene	10000	10000	2500	350	0.02		0.0017	0.00018	0.024		0.0016	0.00018	-		-	-	0.0044		0.0014	0.00015
Methyl tert butyl ether	8500	9800	0.28	2	0.00043	J	0.0034	0.00034	0.00065	J	0.0032	0.00032	-		-	-	0.00028	U	0.0028	0.00028
Naphthalene	66	77	25	10	1.9	E	0.0067	0.0011	2	E	0.0064	0.001	-		-	-	0.024		0.0056	0.00091
Toluene	10000	10000	44	100	0.19		0.0017	0.00091	0.16		0.0016	0.00087	-		-	-	0.024		0.0014	0.00076
Xylenes, Total	7900	9100	990	1000	0.6		0.0017	0.00049	0.53		0.0016	0.00047	-		-	-	0.38		0.0014	0.00041
VOLATILE ORGANICS BY EPA 5035 HIGH																				
1,2,4-Trimethylbenzene	4700	5400	300	53	3.3		0.2	0.033	-		-	-	-		-	-	1.8		0.19	0.032
1,2-Dibromoethane	3.7	4.2	0.0012	0.005	*0.029*	U	0.05	0.029	-		-	-	-		-	-	*0.028*	U	0.048	0.028
1,2-Dichloroethane	85	98	0.1	0.5	0.026	U	0.1	0.026	-		-	-	-		-	-	0.057	J	0.096	0.025
1,3,5-Trimethylbenzene	4700	5400	93	53	3.6		0.2	0.019	-		-	-	-		-	-	3.6		0.19	0.019
Benzene	280	330	0.13	0.5	0.12		0.05	0.016	-		-	-	-		-	-	0.27		0.048	0.016
Ethylbenzene	880	1000	46	70	0.31		0.1	0.014	-		-	-	-		-	-	0.21		0.096	0.014
Isopropylbenzene	10000	10000	2500	350	0.14		0.1	0.011	-		-	-	-		-	-	0.05	J	0.096	0.01
Methyl tert butyl ether	8500	9800	0.28	2	0.02	U	0.2	0.02	-		-	-	-		-	-	0.019	U	0.19	0.019
Naphthalene	66	77	25	10	38	E	0.4	0.065	-		-	-	-		-	-	0.94		0.39	0.063
Toluene	10000	10000	44	100	0.98		0.1	0.054	-		-	-	-		-	-	1.2		0.096	0.052
Xylenes, Total	7900	9100	990	1000	3.9		0.1	0.029	-		-	-	-		-	-	4.7		0.096	0.028
TOTAL METALS																				
Lead, Total	1000	190000	450	0.5	-		-	-	-		-	-	-		-	-	-		-	-

Notes:
Samples were collected by Arcadis on behalf of Alliance 51st Street LLC
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic
Bolded and highlighted concentrations are exceedances of a corresponding MSC.

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
Q - Qualifier
Conc - Concentration
RL - Reporting Limit
MDL - Minimum Detection Limit
U - Compound was undetected at the listed laboratory method detection limit.
J - The compound was detected; however, the concentration is below the laboratory method detection limit. Accordingly, this concentrat
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Table 4
Tank Containment Area 1
Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	SB-302 (4.5-5)				SB-303 (4-4.5)				SB-307 (5.5-6)				SB-309 (4.5-5)			
TANK CONTAINMENT AREA					1				1				1				1			
LAB ID:					L2310798-04				L2310798-05				L2314083-10				L2314083-12			
COLLECTION DATE:					3/1/2023				3/1/2023				3/17/2023				3/17/2023			
SAMPLE DEPTH:					4.5-5				4-4.5				5.5-6				4.5-5			
SAMPLE MATRIX:					SOIL				SOIL				SOIL				SOIL			
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY EPA 5035																				
1,2,4-Trimethylbenzene	4700	5400	300	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	3.7	4.2	0.0012	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	85	98	0.1	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	4700	5400	93	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	280	330	0.13	0.5	0.00018	U	0.00055	0.00018	-		-	-	-		-	-	-		-	-
Ethylbenzene	880	1000	46	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	10000	10000	2500	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether	8500	9800	0.28	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	66	77	25	10	0.00072	U	0.0044	0.00072	0.00069	U	0.0043	0.00069	-	-	-	-	-	-	-	-
Toluene	10000	10000	44	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	7900	9100	990	1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VOLATILE ORGANICS BY EPA 5035 HIGH																				
1,2,4-Trimethylbenzene	4700	5400	300	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	3.7	4.2	0.0012	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	85	98	0.1	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	4700	5400	93	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	280	330	0.13	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	880	1000	46	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	10000	10000	2500	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether	8500	9800	0.28	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	66	77	25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	10000	10000	44	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	7900	9100	990	1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL METALS																				
Lead, Total	1000	190000	450	0.5	-		-	-	-		-	-	7.56		2.21	0.119	87.4		2.16	0.116

Notes:

Samples were collected by Arcadis on behalf of Alliance 51st Street LLC

Concentrations reported in milligrams per kilogram (mg/kg)

Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic

Bolded and highlighted concentrations are exceedances of a corresponding MSC.

Acronyms and Abbreviations:

' = foot/feet

ID = identification

MSC = Medium Specific Concentration

Q - Qualifier

Conc - Concentration

RL - Reporting Limit

MDL - Minimum Detection Limit

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

J - The compound was detected; however, the concentration is below the laboratory method detection limit. Accordingly, this concentrat

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Table 5
Tank Containment Area 3
Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') MSCs Criteria	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') MSCs Criteria	Pennsylvania Non-Residential Generic Soil to Groundwater MSCs Criteria	Pennsylvania Non-Residential 100X GW Soil to Groundwater MSCs Criteria	PIPE 29 4.5-5				SB-301 (1.5-2)			
TANK CONTAINMENT AREA					3				3			
LAB ID:					L2310798-01				L2310798-02			
COLLECTION DATE:					3/1/2023				3/1/2023			
SAMPLE DEPTH:					4.5-5				1.5-2			
SAMPLE MATRIX:					SOIL				SOIL			
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY EPA 5035												
1,2,4-Trimethylbenzene	4700	5400	300	53	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	4700	5400	93	53	-	-	-	-	-	-	-	-
Benzene	280	330	0.13	0.5	0.00032	U	0.00096	0.00032	0.00035	U	0.001	0.00035
Ethylbenzene	880	1000	46	70	-	-	-	-	-	-	-	-
Isopropylbenzene	10000	10000	2500	350	-	-	-	-	-	-	-	-
Methyl tert butyl ether	8500	9800	0.28	2	-	-	-	-	-	-	-	-
Naphthalene	66	77	25	10	-		-	-	-		-	-
Toluene	10000	10000	44	100	-	-	-	-	-	-	-	-

Notes:
Samples were collected by Arcadis on behalf of Alliance 51st Street LLC
Concentrations reported in milligrams per kilogram (mg/kg)
Applicable Non-Residential Soil to Groundwater MSCs (Greater of Non-Residential Generic Soil to Groundwater MSCs Criteria or Pennsylvania
Bolded and highlighted concentrations are exceedances of a corresponding MSC. Non-Residential 100X GW Soil to Groundwater MSCs Criteria)

Acronyms and Abbreviations:
' = foot/feet
ID = identification
MSC = Medium Specific Concentration
Q - Qualifier
Conc - Concentration
RL - Reporting Limit
MDL - Minimum Detection Limit
U - Compound was undetected at the listed laboratory method detection limit.
J - The compound was detected; however, the concentration is below the laboratory method detection limit. Accordingly, this concentration is estimated.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Table 6
Summary of Groundwater Elevation Data
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

Well ID	Top of Casing Elevation, feet msl	10/25/2021		4/1/2022		7/11/2022	
		Depth to Water, feet below TOC	Groundwater Elevation, feet msl	Depth to Water, feet below TOC	Groundwater Elevation, feet msl	Depth to Water, feet below TOC	Groundwater Elevation, feet msl
MW-1	14.19	10.40	3.79	10.14	4.05	10.37	3.82
MW-2	16.44	7.23	9.21	6.88	9.56	7.08	9.36
MW-3	19.33	6.74	12.59	4.46	14.87	5.93	13.40
MW-4	28.76	11.62	17.14	12.92	15.84	10.45	18.31
MW-5	29.02	11.84	17.18	12.09	16.93	11.94	17.08
MW-7	19.17	NI	NI	4.96	14.21	5.15	14.02
MW-8	23.09	NI	NI	4.14	18.95	4.29	18.80
MW-9	31.36	NI	NI	9.93	21.43	10.73	20.63

Notes:

Acronyms and Abbreviations:
ID = identification
feet msl = foot/feet below mean sea level
NI = not installed
TOC = top of casing

Table 7
Tank Containment Area 1
Summary of Temporary Monitoring Well Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSCs Criteria	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs Criteria	TW-1				TW-1				TW-5				TW-5			
LAB ID:			L2158069-01				L2158070-01				L2158069-04				L2158070-04			
COLLECTION DATE:			10/22/2021				10/22/2021				10/22/2021				10/22/2021			
TANK CONTAINMENT AREA			1				1				1				1			
SAMPLE MATRIX:			WATER				WATER				WATER				WATER			
ANALYTE	(µg/l)	(µg/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																		
1,2,4-Trimethylbenzene	53000	530	320		50	3.8	390	E	2.5	0.19	1.5	J	2.5	0.19	1.3	J	2.5	0.19
1,2-Dibromoethane	5	0.05	-		-	-	*2*	U	2	0.19	-		-	-	*2*	U	2	0.19
1,2-Dichloroethane	50	5	-		-	-	1.5		0.5	0.13	-		-	-	0.21	J	0.5	0.13
1,3,5-Trimethylbenzene	530	530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	500	5	65		10	3.2	66		0.5	0.16	0.36	J	0.5	0.16	0.32	J	0.5	0.16
Ethylbenzene	70000	700	-		-	-	79		0.5	0.17	-		-	-	0.2	J	0.5	0.17
Isopropylbenzene	50000	3500	-		-	-	35		0.5	0.19	-		-	-	0.5	U	0.5	0.19
Methyl tertiary butyl ether	200	20	-		-	-	0.72	J	1	0.17	-		-	-	1	U	1	0.17
Naphthalene	10000	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	100000	1000	-		-	-	95		0.75	0.2	-		-	-	1.2		0.75	0.2
Xylenes, Total	180000	10000	-		-	-	240		1	0.33	-		-	-	1.2	J	1	0.33
DISSOLVED METALS																		
Lead, Dissolved	5000	5	-		-	-	-		-	-	-		-	-	0.3553	J	1	0.343

Notes:
Samples were collected by Arcadis on behalf of Alliance 51st Street LLC
Italicized results are reporting limits that exceed the corresponding MSC.
Bolded and highlighted concentrations are exceedances of a corresponding MSC.

Acronyms and Abbreviations:
(µg/l)g/l = micrograms per liter
Conc = concentration
GC/MS = gas chromatography/mass spectrometry
ID = identification
MDL = Minimum Detection Limit
MSC = Medium Specific Concentration
Q = Qualifier
RL = Reporting Limit
SIM = Selected Ion Monitoring

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

Table 8
Tank Containment Area 3
Summary of Temporary Monitoring Well Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSCs Criteria	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs Criteria	TW-2				TW-2				TW-3				TW-3			
LAB ID:			L2158069-02				L2158070-02				L2158069-03				L2158070-03			
COLLECTION DATE:			10/22/2021				10/22/2021				10/22/2021				10/22/2021			
TANK CONTAINMENT AREA			3				3				3				3			
SAMPLE MATRIX:			WATER				WATER				WATER				WATER			
ANALYTE	(µg/l)	(µg/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																		
1,2,4-Trimethylbenzene	53000	530	-		-	-	0.96	J	2.5	0.19	1.1	J	2.5	0.19	1.4	J	2.5	0.19
1,3,5-Trimethylbenzene	530	530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	500	5	-		-	-	0.3	J	0.5	0.16	-		-	-	0.24	J	0.5	0.16
Ethylbenzene	70000	700	-		-	-	0.21	J	0.5	0.17	-		-	-	22		0.5	0.17
Isopropylbenzene	50000	3500	-		-	-	5.8		0.5	0.19	-		-	-	4.3		0.5	0.19
Methyl tertiary butyl ether	200	20	-		-	-	1	U	1	0.17	-		-	-	0.45	J	1	0.17
Naphthalene	10000	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	100000	1000	-		-	-	0.86		0.75	0.2	-		-	-	0.42	J	0.75	0.2

Notes:
Samples were collected by Arcadis on behalf of Alliance 51st Street LLC
Italicized results are reporting limits that exceed the corresponding MSC.
Bolded and Highlighted concentrations are exceedances of a corresponding MSC.

Acronyms and Abbreviations:
(µg/l)g/l = micrograms per liter
Conc = concentration
GC/MS = gas chromatography/mass spectrometry
ID = identification
MDL = Minimum Detection Limit
MSC = Medium Specific Concentration
NS = No PADEP Groundwater MSC established for this compound
PADEP = Pennsylvania Department of Environmental Protection
RL = Reporting Limit
SIM = selected ion monitoring

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

Table 9
Tank Containment Area 1
Summary of Groundwater Monitoring Results - Permanent Wells
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSCs Criteria	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs Criteria	MW-1				MW-1				MW-1				MW-1				MW-1				MW-2			
LAB ID:			L2158499-02				L2216990-01				L2236752-01				L2260298-01				L2304271-01				L2158499-01			
COLLECTION DATE:			10/25/2021				4/1/2022				7/11/2022				10/27/2022				1/25/2023				10/25/2021			
TANK CONTAINMENT AREA			1				1				1				1				1				1			
SAMPLE MATRIX:			WATER				WATER				WATER				WATER				WATER				WATER			
ANALYTE	(µg/l)	(µg/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																										
1,2,4-Trimethylbenzene	53000	530	0.3	J	2.5	0.19	2.5	U	2.5	0.19	0.52	J	2.5	0.19	5	U	5	0.38	0.35	J	2.5	0.19	3		2.5	0.19
1,2-Dibromoethane	5	0.05	*2*	U	2	0.19	*2*	U	2	0.19	*2*	U	2	0.19	*4*	U	4	0.39	*2*	U	2	0.19	*2*	U	2	0.19
1,2-Dichloroethane	50	5	0.5	U	0.5	0.13	0.5	U	0.5	0.13	0.5	U	0.5	0.13	1	U	1	0.26	0.5	U	0.5	0.13	0.5	U	0.5	0.13
1,3,5-Trimethylbenzene	530	530	-		-	-	2.5	U	2.5	0.22	2.5	U	2.5	0.22	5	U	5	0.43	2.5	U	2.5	0.22	-		-	-
Benzene	500	5	0.91		0.5	0.16	0.98		0.5	0.16	0.68		0.5	0.16	1		1	0.32	1.1		0.5	0.16	3.1		0.5	0.16
Ethylbenzene	70000	700	0.5	U	0.5	0.17	0.5	U	0.5	0.17	0.5	U	0.5	0.17	0.35	J	1	0.33	0.5	U	0.5	0.17	0.45	J	0.5	0.17
Isopropylbenzene	50000	3500	1.1		0.5	0.19	2.2		0.5	0.19	1.8		0.5	0.19	1.9		1	0.37	2		0.5	0.19	0.38	J	0.5	0.19
Methyl tertiary butyl ether	200	20	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17	2	U	2	0.33	1	U	1	0.17	2.1		1	0.17
Naphthalene	10000	100	-		-	-	1	U	1	0.22	1.1		1	0.22	2	U	2	0.43	1	U	1	0.22	-		-	-
Toluene	100000	1000	0.71	J	0.75	0.2	0.78		0.75	0.2	0.6	J	0.75	0.2	1.1	J	1.5	0.41	0.89		0.75	0.2	1.4		0.75	0.2
Xylenes, Total	180000	10000	2.2	J	1	0.33	2.6	J	1	0.33	2.2	J	1	0.33	3.8	J	2	0.66	3.7	J	1	0.33	6.4		1	0.33
DISSOLVED METALS																										
Lead, Dissolved	5000	5	-		-	-	1	U	1	0.343	1	U	1	0.343	1.267		1	0.343	1	U	1	0.343	-		-	-

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSCs Criteria	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs Criteria	MW-5				MW-5				MW-3				MW-5				MW-5				MW-5			
LAB ID:			L2260298-05				L2304271-05				L2304271-03				L2216990-05				L2236752-05				L2260298-05			
COLLECTION DATE:			10/27/2022				1/25/2023				1/25/2023				4/1/2022				7/11/2022				10/27/2022			
TANK CONTAINMENT AREA			1				1				1				1				1				1			
SAMPLE MATRIX:			WATER				WATER				WATER				WATER				WATER				WATER			
ANALYTE	(µg/l)	(µg/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																										
1,2,4-Trimethylbenzene	53000	530	2.5	U	2.5	0.19	2.5	U	2.5	0.19	2.5	U	2.5	0.19	2.5	U	2.5	0.19	2.5	U	2.5	0.19	2.5	U	2.5	0.19
1,2-Dibromoethane	5	0.05	*2*	U	2	0.19	*2*	U	2	0.19	*2*	U	2	0.19	*2*	U	2	0.19	*2*	U	2	0.19	*2*	U	2	0.19
1,2-Dichloroethane	50	5	0.5	U	0.5	0.13	0.5	U	0.5	0.13	0.5	U	0.5	0.13	0.5	U	0.5	0.13	0.5	U	0.5	0.13	0.5	U	0.5	0.13
1,3,5-Trimethylbenzene	530	530	2.5	U	2.5	0.22	2.5	U	2.5	0.22	2.5	U	2.5	0.22	2.5	U	2.5	0.22	2.5	U	2.5	0.22	2.5	U	2.5	0.22
Benzene	500	5	0.5	U	0.5	0.16	0.5	U	0.5	0.16	0.5	U	0.5	0.16	0.5	U	0.5	0.16	0.5	U	0.5	0.16	0.5	U	0.5	0.16
Ethylbenzene	70000	700	0.5	U	0.5	0.17	0.5	U	0.5	0.17	0.5	U	0.5	0.17	0.5	U	0.5	0.17	0.5	U	0.5	0.17	0.5	U	0.5	0.17
Isopropylbenzene	50000	3500	0.5	U	0.5	0.19	0.5	U	0.5	0.19	0.5	U	0.5	0.19	0.5	U	0.5	0.19	0.5	U	0.5	0.19	0.5	U	0.5	0.19
Methyl tertiary butyl ether	200	20	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17
Naphthalene	10000	100	1	U	1	0.22	1	U	1	0.22	1	U	1	0.22	1	U	1	0.22	1	U	1	0.22	1	U	1	0.22
Toluene	100000	1000	0.75	U	0.75	0.2	0.75	U	0.75	0.2	0.75	U	0.75	0.2	0.75	U	0.75	0.2	0.75	U	0.75	0.2	0.75	U	0.75	0.2
Xylenes, Total	180000	10000	1	U	1	0.33	1	U	1	0.33	1	U	1	0.33	1	U	1	0.33	1	U	1	0.33	1	U	1	0.33
DISSOLVED METALS																										
Lead, Dissolved	5000	5	1	U	1	0.34	1	U	1	0.343	1	U	1	0.343	1	U	1	0.343	1	U	1	0.343	1	U	1	0.34

Notes:
Samples were collected by Arcadis on behalf of Alliance 51st Street LLC
Italicized results are reporting limits that exceed the corresponding MSC
Bolded and highlighted concentrations are exceedances of the corresponding MSC.

Acronyms and Abbreviations:
µg/l - micrograms per liter
Conc = concentration
GC/MS = gas chromatography/mass spectrometry
ID = identification
MDL = Minimum Detection Limit
MSC - Medium Specific Concentration
Q = Qualifier
RL = Reporting Limit
ug/l - micrograms per liter

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

Table 9
Tank Containment Area 1
Summary of Groundwater Monitoring Results - Permanent Wells
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSCs Criteria	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs Criteria	MW-2				MW-2				MW-2				MW-2				MW-3				MW-3			
LAB ID:			L2216990-02				L2236752-02				L2260298-02				L2304271-02				L2158499-03				L2216990-03			
COLLECTION DATE:			4/1/2022				7/11/2022				10/27/2022				1/25/2023				10/25/2021				4/1/2022			
TANK CONTAINMENT AREA			1				1				1				1				1				1			
SAMPLE MATRIX:			WATER				WATER				WATER				WATER				WATER				WATER			
ANALYTE	(µg/l)	(µg/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																										
1,2,4-Trimethylbenzene	53000	530	3.3		2.5	0.19	3.1		2.5	0.19	4		2.5	0.19	3.9		2.5	0.19	2.5	U	2.5	0.19	2.5	U	2.5	0.19
1,2-Dibromoethane	5	0.05	2	U	2	0.19	2	U	2	0.19	2	U	2	0.19	2	U	2	0.19	2	U	2	0.19	2	U	2	0.19
1,2-Dichloroethane	50	5	0.5	U	0.5	0.13	0.5	U	0.5	0.13	0.5	U	0.5	0.13	0.5	U	0.5	0.13	0.5	U	0.5	0.13	0.5	U	0.5	0.13
1,3,5-Trimethylbenzene	530	530	4		2.5	0.22	3.7		2.5	0.22	5.2		2.5	0.22	5.2		2.5	0.22	-		-	-	2.5	U	2.5	0.22
Benzene	500	5	3.3		0.5	0.16	3.2		0.5	0.16	3.8		0.5	0.16	4		0.5	0.16	0.36	J	0.5	0.16	0.5	U	0.5	0.16
Ethylbenzene	70000	700	0.37	J	0.5	0.17	0.41	J	0.5	0.17	0.5		0.5	0.17	0.57		0.5	0.17	0.5	U	0.5	0.17	0.5	U	0.5	0.17
Isopropylbenzene	50000	3500	0.38	J	0.5	0.19	0.38	J	0.5	0.19	0.42	J	0.5	0.19	0.48	J	0.5	0.19	0.5	U	0.5	0.19	0.5	U	0.5	0.19
Methyl tertiary butyl ether	200	20	2.4		1	0.17	2.1		1	0.17	2.6		1	0.17	2.9		1	0.17	1	U	1	0.17	1	U	1	0.17
Naphthalene	10000	100	6.6		1	0.22	6.8		1	0.22	1	U	1	0.22	6		1	0.22	-		-	-	1	U	1	0.22
Toluene	100000	1000	1.6		0.75	0.2	1.6		0.75	0.2	1.9		0.75	0.2	1.9		0.75	0.2	0.75	U	0.75	0.2	0.75	U	0.75	0.2
Xylenes, Total	180000	10000	6		1	0.33	6.6		1	0.33	8.1		1	0.33	8.5		1	0.33	1	U	1	0.33	1	U	1	0.33
DISSOLVED METALS																										
Lead, Dissolved	5000	5	1	U	1	0.343	1	U	1	0.343	1.907		1	0.343	1	U	1	0.343	-		-	-	1	U	1	0.343

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSCs Criteria	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs Criteria	MW-5				MW-7				MW-7				MW-7				MW-7				MW-8			
LAB ID:			L2304271-05				L2216990-06				L2236752-06				L2260298-06				L2304271-06				L2216990-07			
COLLECTION DATE:			1/25/2023				4/1/2022				7/11/2022				10/27/2022				1/25/2023				4/1/2022			
TANK CONTAINMENT AREA			1				1				1				1				1				1			
SAMPLE MATRIX:			WATER				WATER				WATER				WATER				WATER				WATER			
ANALYTE	(µg/l)	(µg/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																										
1,2,4-Trimethylbenzene	53000	530	2.5	U	2.5	0.19	33		2.5	0.19	9.8	J	12	0.96	15		2.5	0.19	4.9		2.5	0.19	2.5	U	2.5	0.19
1,2-Dibromoethane	5	0.05	*2*	U	2	0.19	*2*	U	2	0.19	*10*	U	10	0.96	2	U	2	0.19	*2*	U	2	0.19	2	U	2	0.19
1,2-Dichloroethane	50	5	0.5	U	0.5	0.13	0.66		0.5	0.13	2.5	U	2.5	0.66	0.79		0.5	0.13	0.51		0.5	0.13	0.5	U	0.5	0.13
1,3,5-Trimethylbenzene	530	530	2.5	U	2.5	0.22	13		2.5	0.22	3.8	J	12	1.1	5.9		2.5	0.22	2.7		2.5	0.22	2.5	U	2.5	0.22
Benzene	500	5	0.5	U	0.5	0.16	53		0.5	0.16	37		2.5	0.8	74		0.5	0.16	44		0.5	0.16	0.5	U	0.5	0.16
Ethylbenzene	70000	700	0.5	U	0.5	0.17	7		0.5	0.17	2.4	J	2.5	0.84	6.3		0.5	0.17	1.9		0.5	0.17	0.5	U	0.5	0.17
Isopropylbenzene	50000	3500	0.5	U	0.5	0.19	2.3		0.5	0.19	0.94	J	2.5	0.94	2		0.5	0.19	0.78		0.5	0.19	3		0.5	0.19
Methyl tertiary butyl ether	200	20	1	U	1	0.17	0.83	J	1	0.17	5	U	5	0.83	1		1	0.17	0.86	J	1	0.17	1	U	1	0.17
Naphthalene	10000	100	1	U	1	0.22	7.5		1	0.22	4.2	J	5	1.1	5.8		1	0.22	1.3		1	0.22	0.36	J	1	0.22
Toluene	100000	1000	0.75	U	0.75	0.2	7		0.75	0.2	3.3	J	3.8	1	12		0.75	0.2	3.8		0.75	0.2	0.75	U	0.75	0.2
Xylenes, Total	180000	10000	1	U	1	0.33	12		1	0.33	2.8	J	5	1.7	20		1	0.33	4.6		1	0.33	1	U	1	0.33
DISSOLVED METALS																										
Lead, Dissolved	5000	5	1	U	1	0.343	1.786		1	0.343	0.56	J	1	0.343	1.429		1	0.343	1.015		1	0.34	1	U	1	0.343

Notes:
Samples were collected by Arcadis on behalf of Alliance 51st Street LLC
Italicized results are reporting limits that exceed the corresponding MSC
Bolded and highlighted concentrations are exceedances c

Acronyms and Abbreviations:
µg/l - micrograms per liter
Conc = concentration
GC/MS = gas chromatography/mass spectrometry
ID = identification
MDL = Minimum Detection Limit
MSC - Medium Specific Concentration
Q = Qualifier
RL = Reporting Limit
ug/l - micrograms per liter

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

Table 9
Tank Containment Area 1
Summary of Groundwater Monitoring Results - Permanent Wells
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSCs Criteria	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs Criteria	MW-3				MW-3				MW-3				MW-5				MW-5			
LAB ID:			L2236752-03				L2260298-03				L2304271-03				L2216990-05				L2236752-05			
COLLECTION DATE:			7/11/2022				10/27/2022				1/25/2023				4/1/2022				7/11/2022			
TANK CONTAINMENT AREA			1				1				1				1				1			
SAMPLE MATRIX:			WATER				WATER				WATER				WATER				WATER			
ANALYTE	(µg/l)	(µg/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																						
1,2,4-Trimethylbenzene	53000	530	0.34	J	2.5	0.19	2.5	U	2.5	0.19	2.5	U	2.5	0.19	2.5	U	2.5	0.19	2.5	U	2.5	0.19
1,2-Dibromoethane	5	0.05	2	U	2	0.19	2	U	2	0.19	2	U	2	0.19	2	U	2	0.19	2	U	2	0.19
1,2-Dichloroethane	50	5	0.5	U	0.5	0.13	0.5	U	0.5	0.13	0.5	U	0.5	0.13	0.5	U	0.5	0.13	0.5	U	0.5	0.13
1,3,5-Trimethylbenzene	530	530	2.5	U	2.5	0.22	2.5	U	2.5	0.22	2.5	U	2.5	0.22	2.5	U	2.5	0.22	2.5	U	2.5	0.22
Benzene	500	5	0.5	U	0.5	0.16	0.5	U	0.5	0.16	0.5	U	0.5	0.16	0.5	U	0.5	0.16	0.5	U	0.5	0.16
Ethylbenzene	70000	700	0.5	U	0.5	0.17	0.5	U	0.5	0.17	0.5	U	0.5	0.17	0.5	U	0.5	0.17	0.5	U	0.5	0.17
Isopropylbenzene	50000	3500	0.5	U	0.5	0.19	0.5	U	0.5	0.19	0.5	U	0.5	0.19	0.5	U	0.5	0.19	0.5	U	0.5	0.19
Methyl tertiary butyl ether	200	20	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17
Naphthalene	10000	100	1	U	1	0.22	1	U	1	0.22	1	U	1	0.22	1	U	1	0.22	1	U	1	0.22
Toluene	100000	1000	0.75	U	0.75	0.2	0.75	U	0.75	0.2	0.75	U	0.75	0.2	0.75	U	0.75	0.2	0.75	U	0.75	0.2
Xylenes, Total	180000	10000	1	U	1	0.33	1	U	1	0.33	1	U	1	0.33	1	U	1	0.33	1	U	1	0.33
DISSOLVED METALS																						
Lead, Dissolved	5000	5	1	U	1	0.343	1	U	1	0.343	1	U	1	0.343	1	U	1	0.343	1	U	1	0.343

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSCs Criteria	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs Criteria	MW-8				MW-8				MW-8			
LAB ID:			L2236752-07				L2260298-07				L2304271-07			
COLLECTION DATE:			7/11/2022				10/27/2022				1/25/2023			
TANK CONTAINMENT AREA			1				1				1			
SAMPLE MATRIX:			WATER				WATER				WATER			
ANALYTE	(µg/l)	(µg/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS														
1,2,4-Trimethylbenzene	53000	530	0.73	J	5	0.38	0.54	J	2.5	0.19	2.5	U	2.5	0.19
1,2-Dibromoethane	5	0.05	*4*	U	4	0.39	*2*	U	2	0.19	*2*	U	2	0.19
1,2-Dichloroethane	50	5	1	U	1	0.26	0.5	U	0.5	0.13	0.5	U	0.5	0.13
1,3,5-Trimethylbenzene	530	530	5	U	5	0.43	0.23	J	2.5	0.22	2.5	U	2.5	0.22
Benzene	500	5	1	U	1	0.32	0.5	U	0.5	0.16	0.5	U	0.5	0.16
Ethylbenzene	70000	700	1	U	1	0.33	0.22	J	0.5	0.17	0.5	U	0.5	0.17
Isopropylbenzene	50000	3500	30		1	0.37	21		0.5	0.19	8.3		0.5	0.19
Methyl tertiary butyl ether	200	20	2	U	2	0.33	1	U	1	0.17	1	U	1	0.17
Naphthalene	10000	100	1.3	J	2	0.43	0.76	J	1	0.22	1	U	1	0.22
Toluene	100000	1000	1.5	U	1.5	0.41	0.21	J	0.75	0.2	0.75	U	0.75	0.2
Xylenes, Total	180000	10000	2	U	2	0.66	1	U	1	0.33	1	U	1	0.33
DISSOLVED METALS														
Lead, Dissolved	5000	5	1	U	1	0.343	1	U	1	0.343	1	U	1	0.343

Notes:
Samples were collected by Arcadis on behalf of Alliance 51st Street LLC
Italicized results are reporting limits that exceed the corresponding MSC
Bolded and highlighted concentrations are exceedances c

Acronyms and Abbreviations:
µg/l - micrograms per liter
Conc = concentration
GC/MS = gas chromatography/mass spectrometry
ID = identification
MDL = Minimum Detection Limit
MSC - Medium Specific Concentration
Q = Qualifier
RL = Reporting Limit
ug/l - micrograms per liter

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

Table 10
Tank Containment Area 3
Summary of Groundwater Monitoring Results - Permanent Wells
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSCs Criteria	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs Criteria	MW-004				MW-4				MW-4				MW-4				MW-4				MW-9			
LAB ID:			L2158499-04				L2216990-04				L2236752-04				L2260298-04				L2304271-04				L2216990-08			
COLLECTION DATE:			10/25/2021				4/1/2022				7/11/2022				10/27/2022				1/25/2023				4/1/2022			
TANK CONTAINMENT AREA			3				3				3				3				3				3			
SAMPLE MATRIX:			WATER				WATER				WATER				WATER				WATER				WATER			
ANALYTE	(µg/l)	(µg/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																										
1,2,4-Trimethylbenzene	53000	530	2.5	U	2.5	0.19	2.5	U	2.5	0.19	0.37	J	2.5	0.19	2.5	U	2.5	0.19	1	J	2.5	0.19	180		2.5	0.19
1,3,5-Trimethylbenzene	530	530	-		-	-	2.5	U	2.5	0.22	2.5	U	2.5	0.22	2.5	U	2.5	0.22	0.46	J	2.5	0.22	60		2.5	0.22
Benzene	500	5	0.5	U	0.5	0.16	0.5	U	0.5	0.16	0.5	U	0.5	0.16	0.5	U	0.5	0.16	0.5	U	0.5	0.16	1.3		0.5	0.16
Ethylbenzene	70000	700	0.5	U	0.5	0.17	0.5	U	0.5	0.17	0.5	U	0.5	0.17	0.5	U	0.5	0.17	0.5	U	0.5	0.17	17		0.5	0.17
Isopropylbenzene	50000	3500	0.5	U	0.5	0.19	0.5	U	0.5	0.19	0.5	U	0.5	0.19	0.5	U	0.5	0.19	0.5	U	0.5	0.19	8.8		0.5	0.19
Methyl tertiary butyl ether	200	20	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17
Naphthalene	10000	100	-		-	-	1	U	1	0.22	0.3	J	1	0.22	1	U	1	0.22	1		1	0.22	150		1	0.22
Toluene	100000	1000	0.75	U	0.75	0.2	0.75	U	0.75	0.2	0.75	U	0.75	0.2	0.75	U	0.75	0.2	0.75	U	0.75	0.2	14		0.75	0.2

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSCs Criteria	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs Criteria	MW-9				MW-9				MW-9			
LAB ID:			L2236752-08				L2260298-08				L2304271-08			
COLLECTION DATE:			7/11/2022				10/27/2022				1/25/2023			
TANK CONTAINMENT AREA			3				3				3			
SAMPLE MATRIX:			WATER				WATER				WATER			
ANALYTE	(µg/l)	(µg/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS														
1,2,4-Trimethylbenzene	53000	530	100		2.5	0.19	140		2.5	0.19	160		2.5	0.19
1,3,5-Trimethylbenzene	530	530	34		2.5	0.22	52		2.5	0.22	62		2.5	0.22
Benzene	500	5	1.3		0.5	0.16	1.4		0.5	0.16	2.2		0.5	0.16
Ethylbenzene	70000	700	11		0.5	0.17	15		0.5	0.17	20		0.5	0.17
Isopropylbenzene	50000	3500	4.9		0.5	0.19	7.2		0.5	0.19	9		0.5	0.19
Methyl tertiary butyl ether	200	20	1	U	1	0.17	1	U	1	0.17	1	U	1	0.17
Naphthalene	10000	100	41		1	0.22	99		1	0.22	95		1	0.22
Toluene	100000	1000	14		0.75	0.2	15		0.75	0.2	20		0.75	0.2

Notes:
Samples were collected by Arcadis on behalf of Alliance 51st Street LLC
Italicized results are reporting limits that exceed the corresponding standard.
Bolded and highlighted concentrations are exceedances of the corresponding MSC.

Acronyms and Abbreviations:
µg/l - micrograms per liter
CONC = concentration
MDL = Minimum Detection Limit
ID = identification
GC/MS - Gas Chromatography / Mass Spectrometry
MSC - Medium Specific Concentration
NS - No PADEP Groundwater MSC established for this compound
Q = Qualifier
RL = Reporting Limit
SIM = selected ion monitoring

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

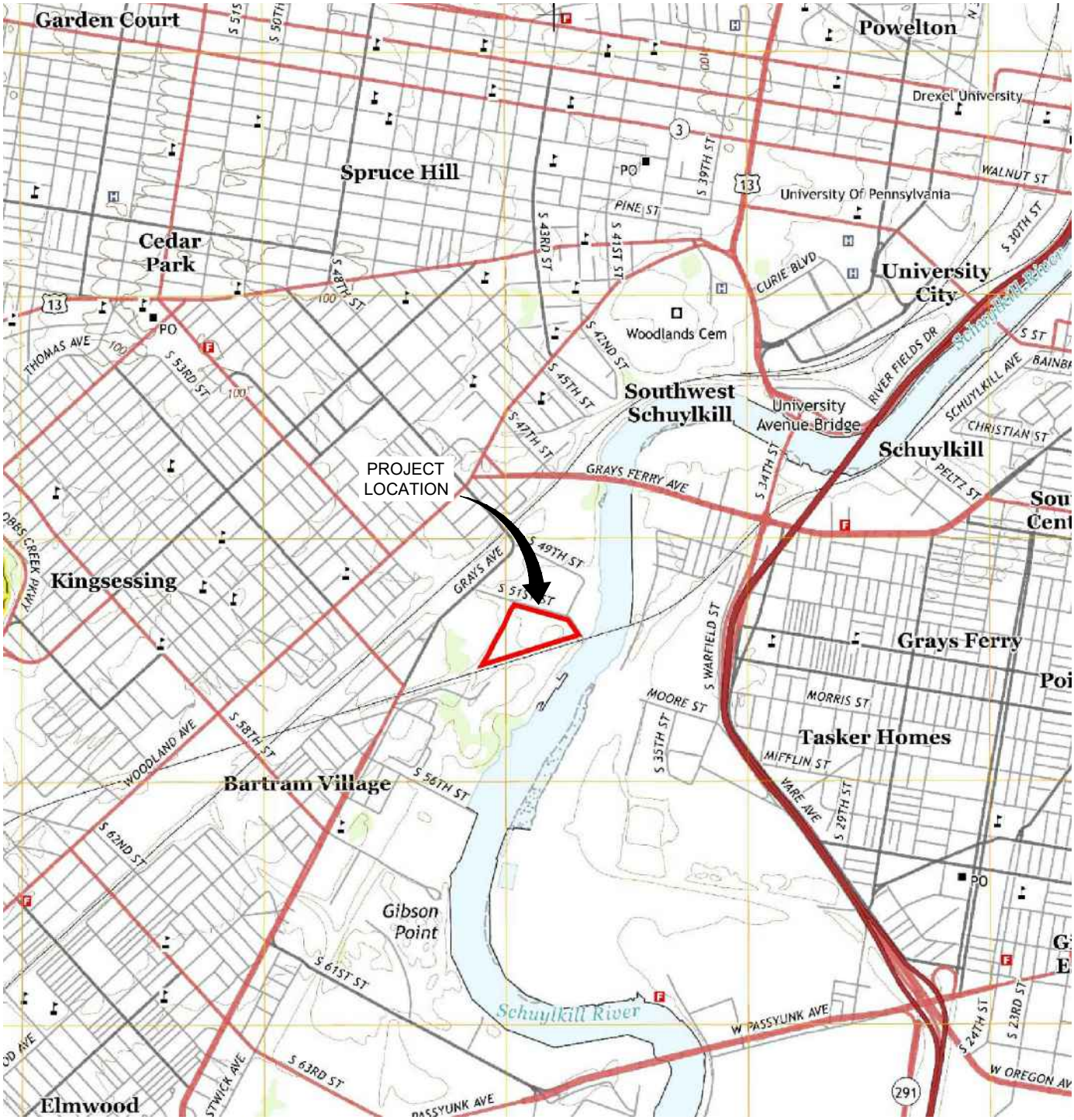
Table 11
Monitoring Well Construction Details
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

Well ID	Date Installed	Top of Casing Elevation, ft msl	Well Diameter, inches	Depth to Top of Screen, ft bgs	Total Depth, ft bgs	Screen Length, ft
MW-1	No Info	14.19	2	4*	20	16
MW-2	No Info	16.44	2	4*	25	21
MW-3	No Info	19.33	2	2*	26	24
MW-4	No Info	28.76	2	5*	20	15
MW-5	No Info	29.02	2	3.5*	20	16.5
MW-7	3/16/2022	19.17	2	3	15	12
MW-8	3/16/2022	23.09	2	3	22	19
MW-9	3/16/2022	31.36	2	3	20	17

Notes:
* Depth to screen estimated using downhole camera.
For MW-1 through MW-5, total depth and screen lengths are estimated using available information from field; no well construction logs available.

Acronyms and Abbreviations:
ft bgs = foot/feet below ground surface
ft msl = foot/feet above mean sea level
ID = identification

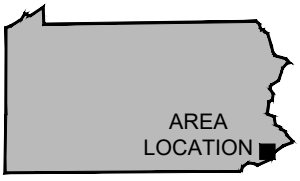
FIGURES



TOPO SOURCE: EDR, HISTORICAL TOPO MAP, TP, PHILADELPHIA, 2013, 7.5-MINUTE

0 2000' 4000'

GRAPHIC SCALE



PENNSYLVANIA

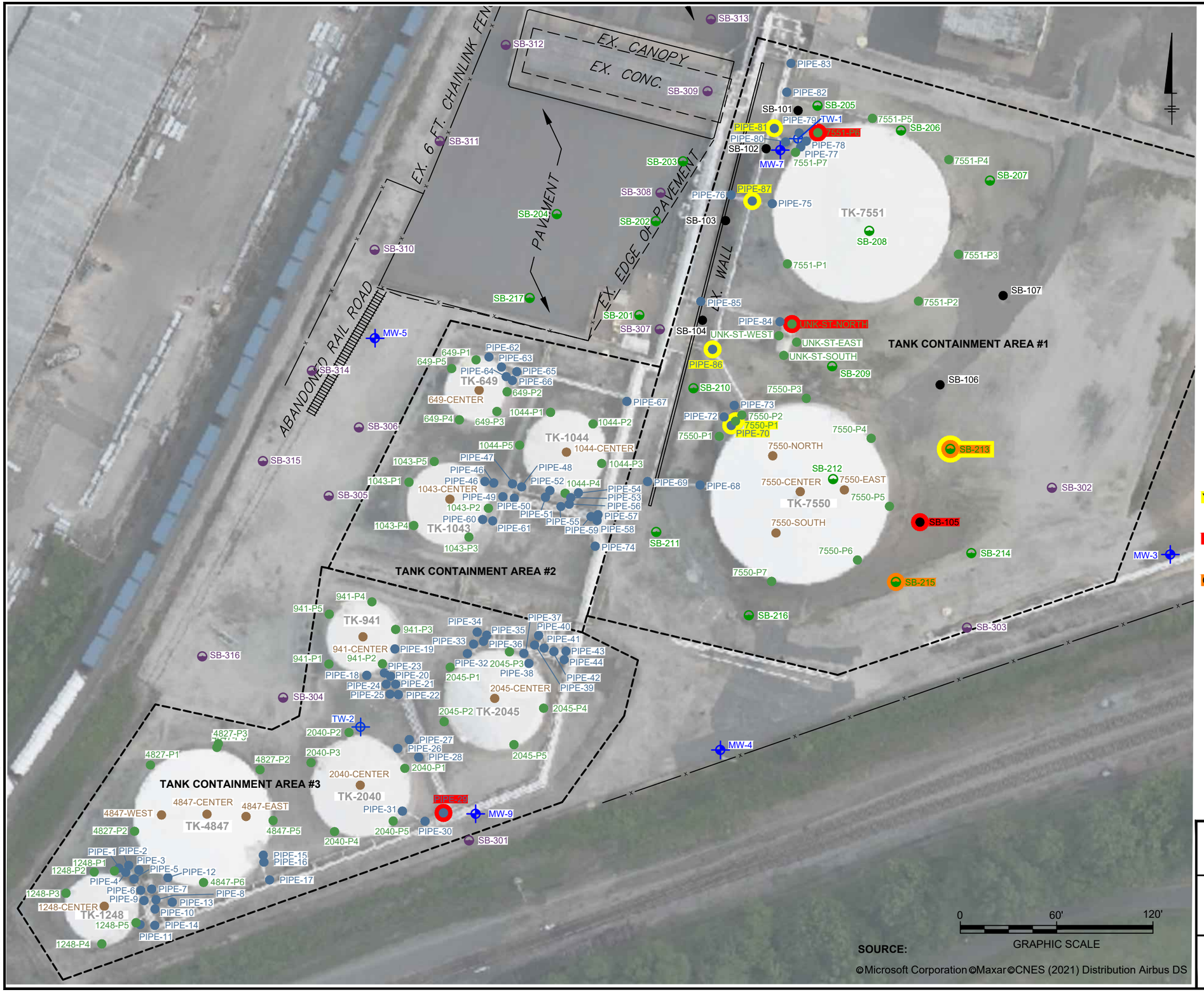
ALLIANCE HP INVESTMENTS, LLC
1646 S. 51ST STREET
PHILADELPHIA, PENNSYLVANIA

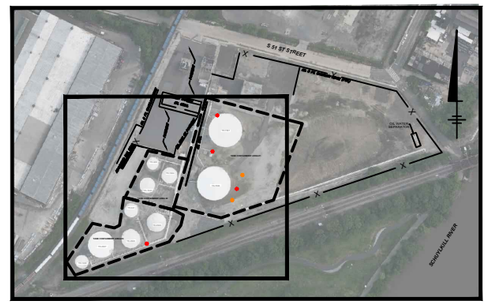
SITE LOCATION MAP

ARCADIS

FIGURE
1

CITY: CITY DIV/GROUP: ENV_CAD DB: CAD
C:\Users\barobita\OneDrive - ARCADIS\BIM 360 Docs\AUS-ALLIANCE HSP VENTURES-1646 S 51ST-PHILADELPHIA PENNSYLVANIA\202101-IN PROGRESS\01-DWG\GEN F01-F02 LOC AND SITE.dwg LAYOUT: 1 SAVED: 11/2/2021 10:49 AM PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 11/2/2021 10:49 AM BY: ROBITAILLE, BEVERLY





LEGEND:

- TK-941 — FORMER TANK AND TANK IDENTIFICATION
- TANK CONTAINMENT AREA
- MONITORING WELL
- TEMPORARY WELL
- SOIL BORING (ARCADIS)
- SOIL BORING (ARCADIS MARCH 2022)
- SOIL BORING (ARCADIS 2023)
- SAMPLING LOCATION - PIPE - STANTEC
- SAMPLING LOCATION - TANK PERIMETER - STANTEC
- SAMPLING LOCATION - TANK BOTTOM - STANTEC
- YELLOW — LOCATION EXCEEDS SOIL MEDIUM SPECIFIC CONCENTRATIONS (MSCs) FOR LEAD
- RED — LOCATION EXCEEDS SOIL MEDIUM SPECIFIC CONCENTRATIONS (MSCs) FOR BENZENE
- ORANGE — LOCATION EXCEEDS SOIL MEDIUM SPECIFIC CONCENTRATIONS (MSCs) FOR NAPHTHALENE

NOTES:

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

2. STANTEC SAMPLING LOCATIONS HAVE BEEN DIGITIZED FROM: PROPOSED AST CLOSURE ASSESSMENT SOIL SAMPLE LOCATIONS, FIGURES 2 THROUGH 6, PREPARED BY STANTEC. SCALE IS APPROXIMATE.

3. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.

ALLIANCE HSP VENTURES
1646 S 51 ST STREET
PHILADELPHIA, PENNSYLVANIA

SITE PLAN WITH SOIL SAMPLING LOCATIONS AND EXCEEDANCES

ARCADIS

FIGURE
2A

C:\Users\PPHalliw\ACCDocs\Arcadis\AUS-ALLIANCE HSP VENTURES-1646 S 51ST-PHILADELPHIA Pennsylvania\Project Files\2023\01-In Progress\01-DWG\GEN-2023-F02-SCR-SAMPLE LOCALS ALL SB-ALT CODING.dwg LAYOUT: 2 SAVED: 5/23/2023 9:14 AM ACADVER: 24.2S (LMS TECH)
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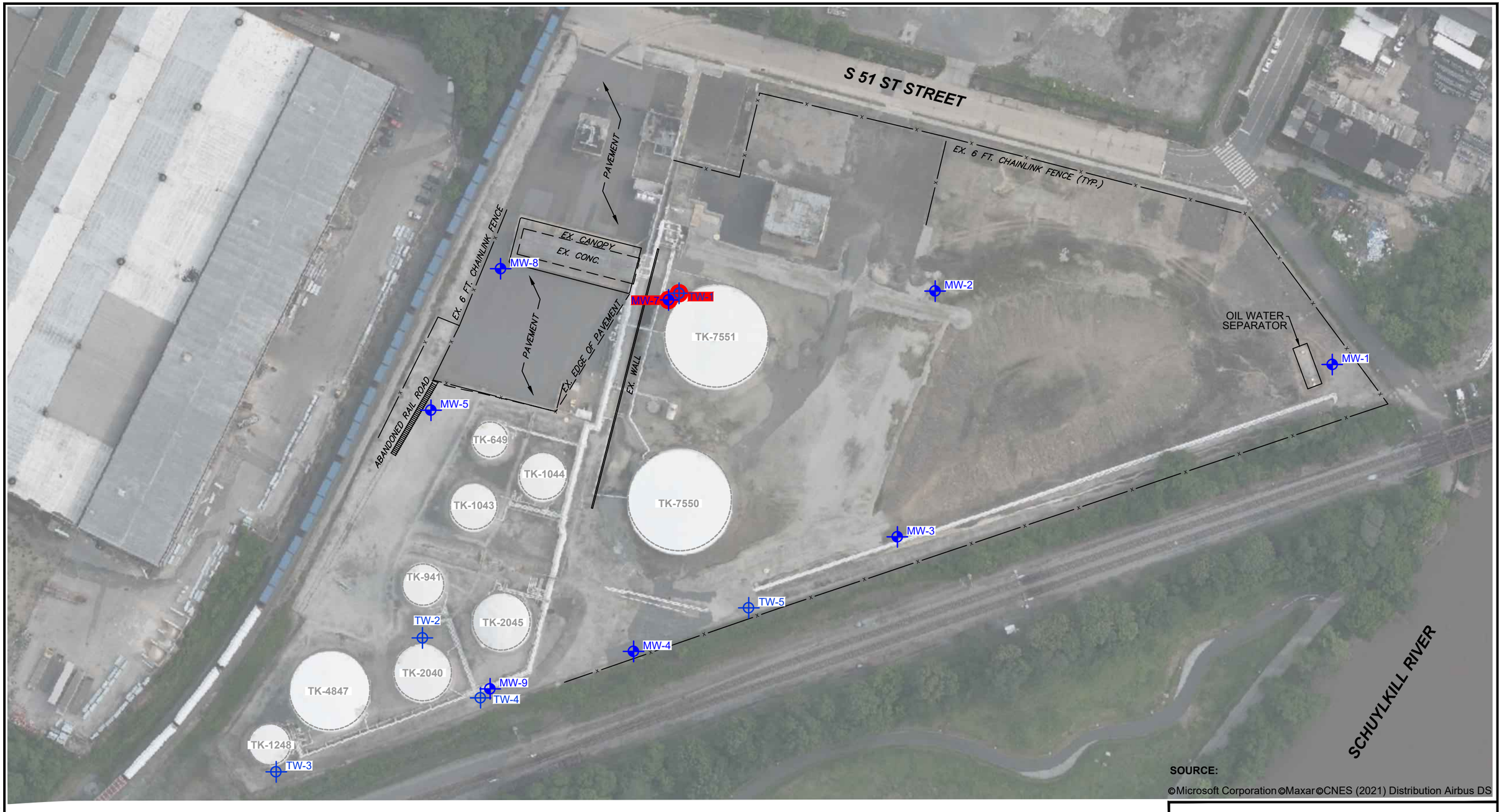

SOURCE:

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LEGEND:

- MONITORING WELL
- TEMPORARY WELL
- RED — LOCATION EXCEEDS GROUNDWATER MEDIUM SPECIFIC CONCENTRATIONS (MSCs) FOR BENZENE
- TK-941 — FORMER TANK AND TANK IDENTIFICATION

NOTES:

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

2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.

0 100' 200'

GRAPHIC SCALE

ALLIANCE HSP VENTURES
1646 S 51 ST STREET
PHILADELPHIA, PENNSYLVANIA

SITE PLAN WITH GROUNDWATER SAMPLING LOCATIONS AND EXCEEDANCES

ARCADIS

FIGURE
2B

C:\Users\PPHalliw\ACCDocs\Arcadis\AUS-ALLIANCE HSP VENTURES-1646 S 51ST-PHILADELPHIA Pennsylvania\Project Files\2023\01-In Progress\01-DWG\GEN-2023-F03-SCR-SITE PLAN W SAMPLE LOCALS.dwg LAYOUT: 3 SAVED: 5/23/2023 8:58 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
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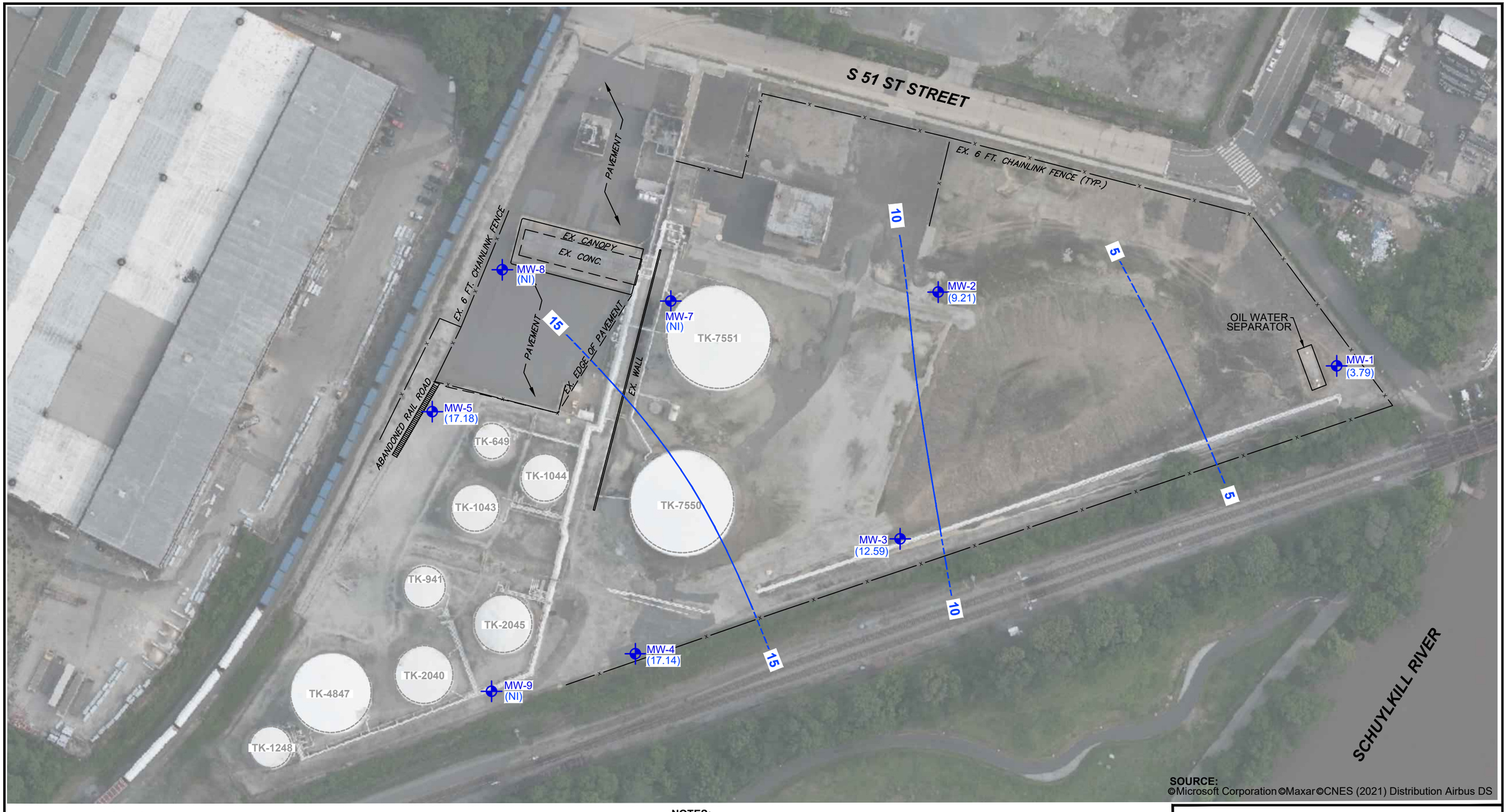


LEGEND:

- MONITORING WELL
- (17.14) GROUNDWATER ELEVATION
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- (NI) WELL NOT INSTALLED AT TIME OF SAMPLING EVENT
- CHAIN LINK FENCE
- TK-941 FORMER TANK AND TANK IDENTIFICATION

NOTES:

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

2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.

0 100' 200'

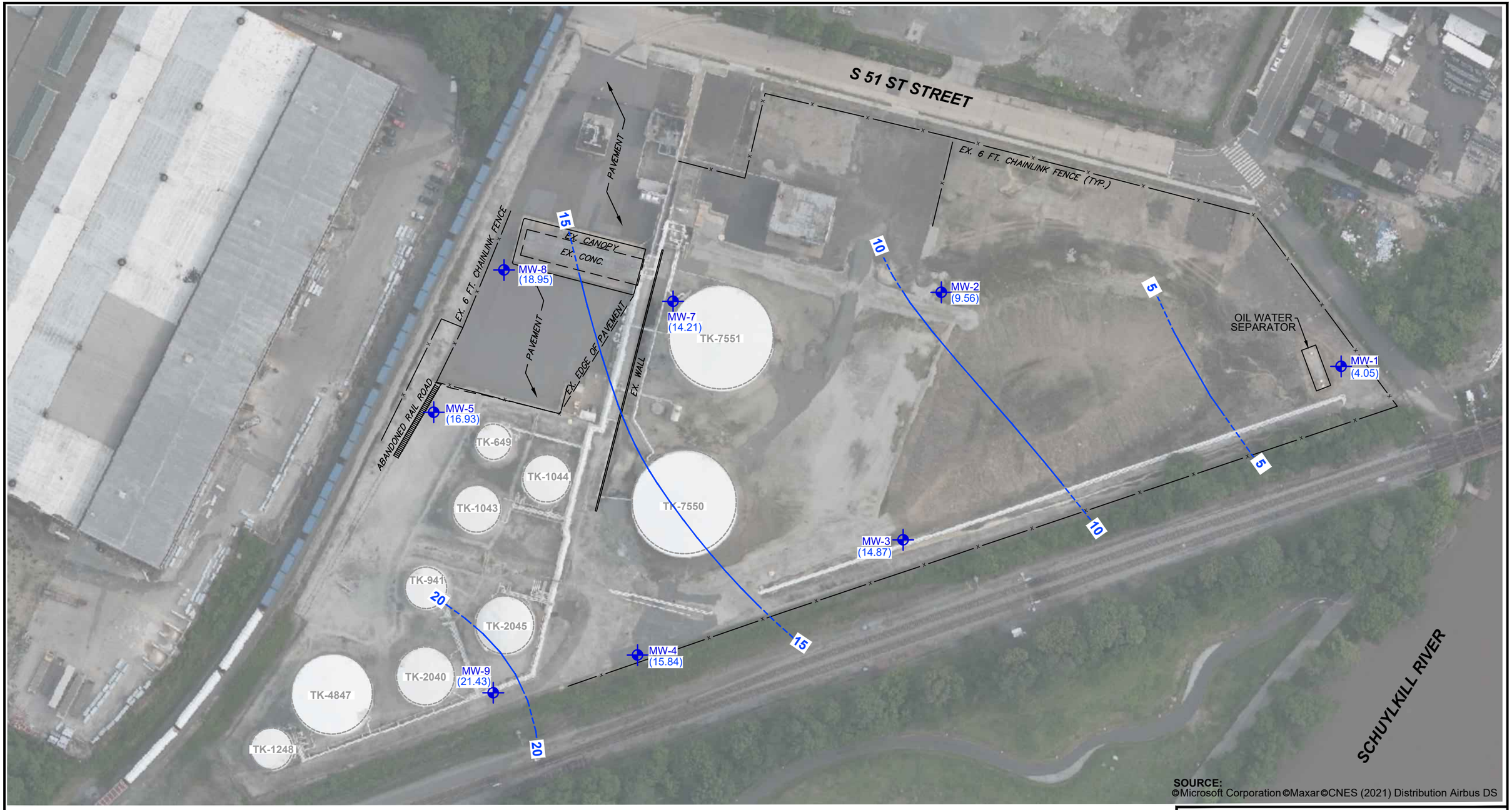
GRAPHIC SCALE

ALLIANCE HSP VENTURES
1646 S 51 ST STREET
PHILADELPHIA, PENNSYLVANIA

GROUNDWATER ELEVATION AND CONTOUR MAP OCTOBER 2021

ARCADIS

FIGURE 3



LEGEND:

- MONITORING WELL
- (21.43) GROUNDWATER ELEVATION
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- CHAIN-LINK FENCE
- TK-941 FORMER TANK AND TANK IDENTIFICATION

NOTES:

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

2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.

0 100' 200'

GRAPHIC SCALE

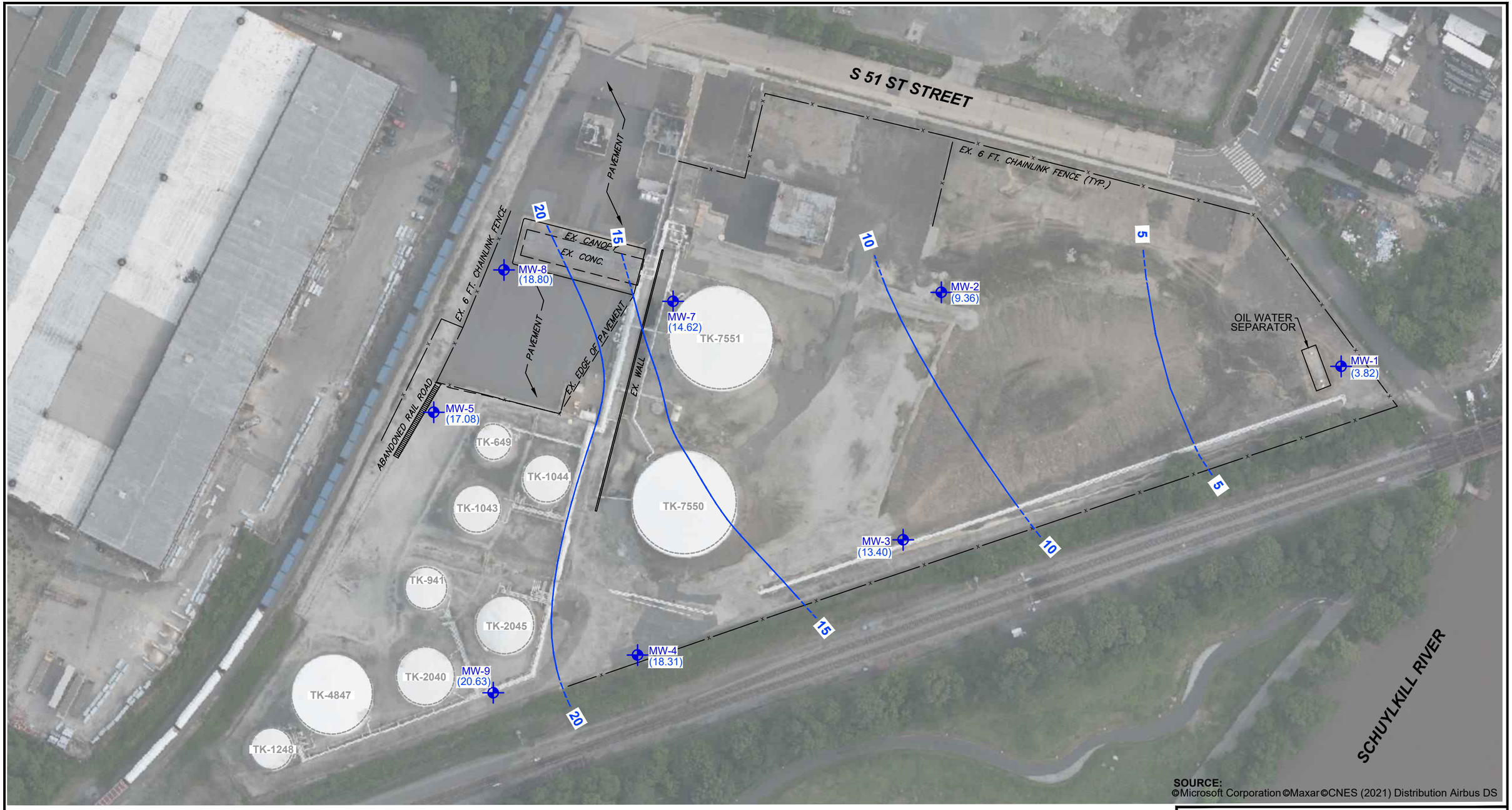
ALLIANCE HSP VENTURES
1646 S 51 ST STREET
PHILADELPHIA, PENNSYLVANIA

GROUNDWATER ELEVATION AND CONTOUR MAP APRIL 2022

ARCADIS

4

C:\Users\PPHalliw\ACCDocs\Arcadis\AUS-ALLIANCE HSP VENTURES-1646 S 51ST-PHILADELPHIA Pennsylvania\Project Files\2022\01-In Progress\01-DWG\GEN-2022-F04-GWC-APRIL 2022.dwg LAYOUT: 4 SAVED: 10/20/2022 2:52 PM ACADVER: 24.0S (LMS TECH) PAGESETUP: --- PLOTTED: 10/20/2022 2:52 PM BY: HALLIWELL, TRISH



LEGEND:

- MONITORING WELL
- (20.63) GROUNDWATER ELEVATION
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- CHAIN-LINK FENCE
- TK-941 FORMER TANK AND TANK IDENTIFICATION

NOTES:

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

0 100' 200'

GRAPHIC SCALE

ALLIANCE HSP VENTURES
1646 S 51 ST STREET
PHILADELPHIA, PENNSYLVANIA

GROUNDWATER ELEVATION AND CONTOUR MAP JULY 2022

ARCADIS

FIGURE 5

C:\Users\PPHalliw\ACCDocs\Arcadis\AUS-ALLIANCE HSP VENTURES- 1646 S 51ST-PHILADELPHIA Pennsylvania\Project Files\2022\01-In Progress\01-DWG\GEN-2022-F0X-GWC-JULY 2022.dwg LAYOUT: X SAVED: 10/25/2022 11:26 AM ACADVER: 24.0S (LMS TECH) PAGESETUP: ---- PLOTTED: 10/25/2022 11:26 AM BY: HALLIWELL, TRISH

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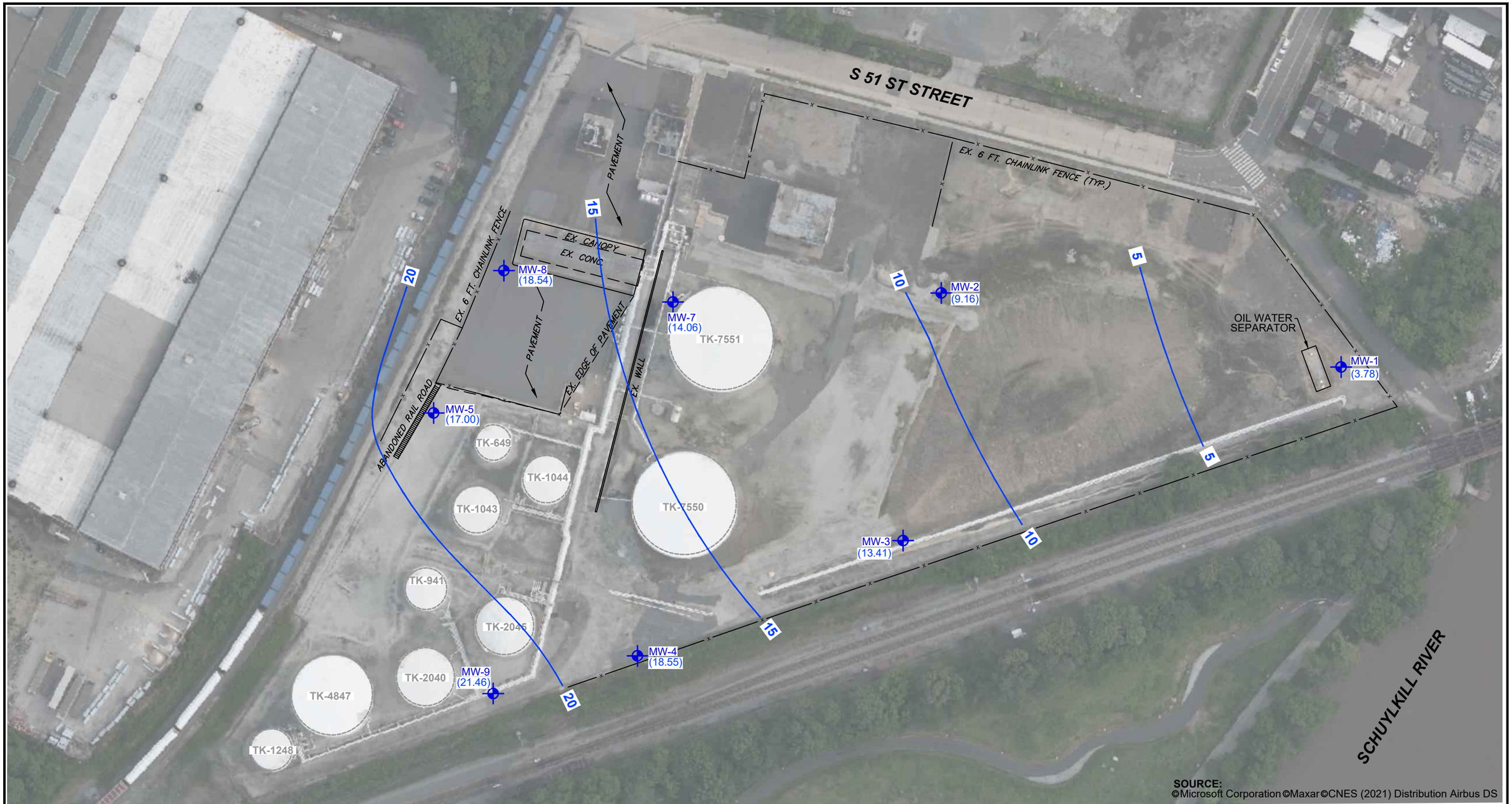

SOURCE:
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LEGEND:

- MONITORING WELL
- (21.46) GROUNDWATER ELEVATION
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- CHAIN LINK FENCE
- TK-941 FORMER TANK AND TANK IDENTIFICATION

NOTES:

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

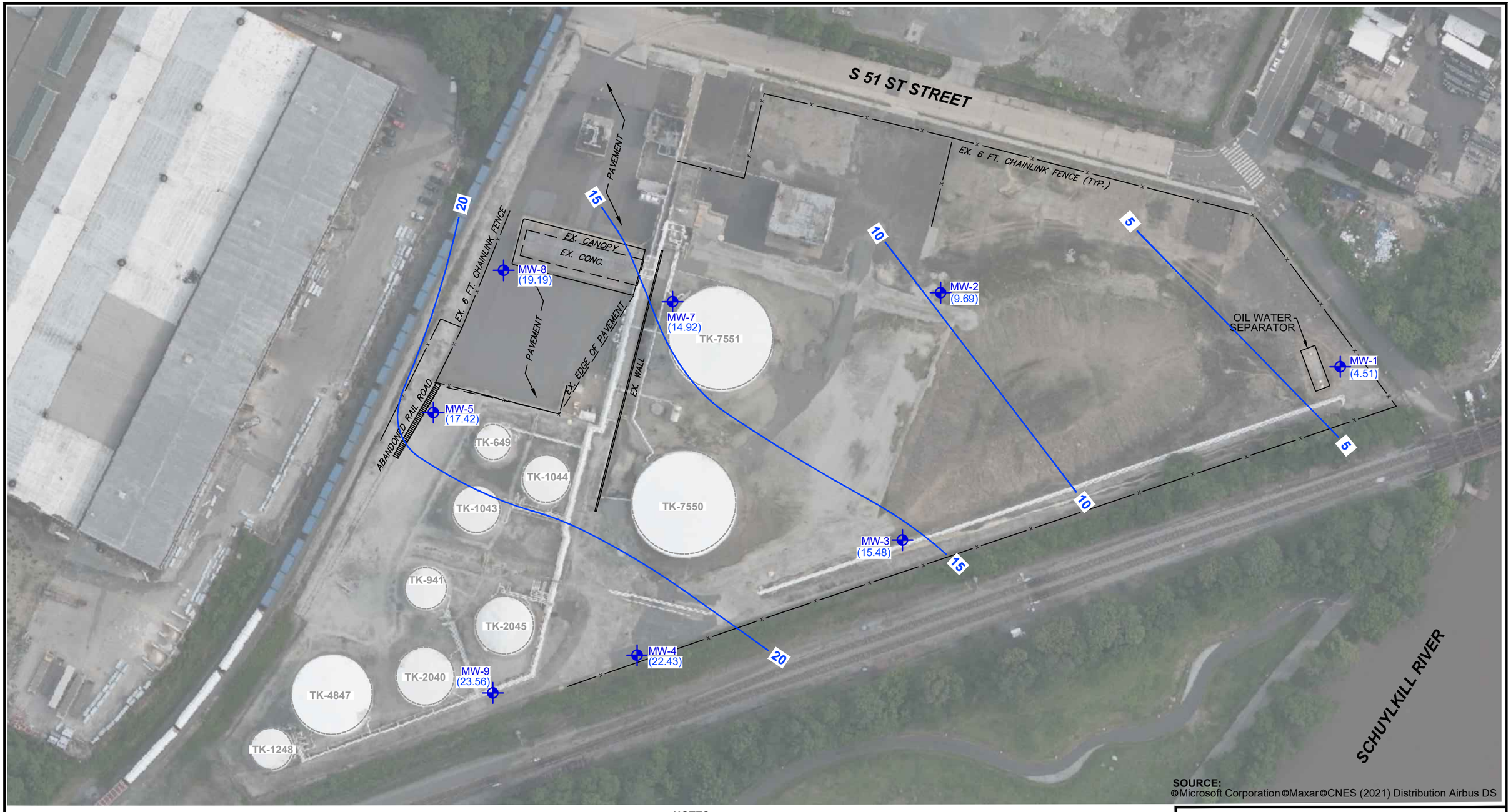
0 100' 200'
GRAPHIC SCALE

ALLIANCE HSP VENTURES
1646 S 51 ST STREET
PHILADELPHIA, PENNSYLVANIA

GROUNDWATER ELEVATION AND CONTOUR MAP OCTOBER 2022

ARCADIS

FIGURE 6



LEGEND:

- MONITORING WELL
- (22.43) GROUNDWATER ELEVATION
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- CHAIN LINK FENCE
- TK-941 FORMER TANK AND TANK IDENTIFICATION

NOTES:

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

2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.

0 100' 200'

GRAPHIC SCALE

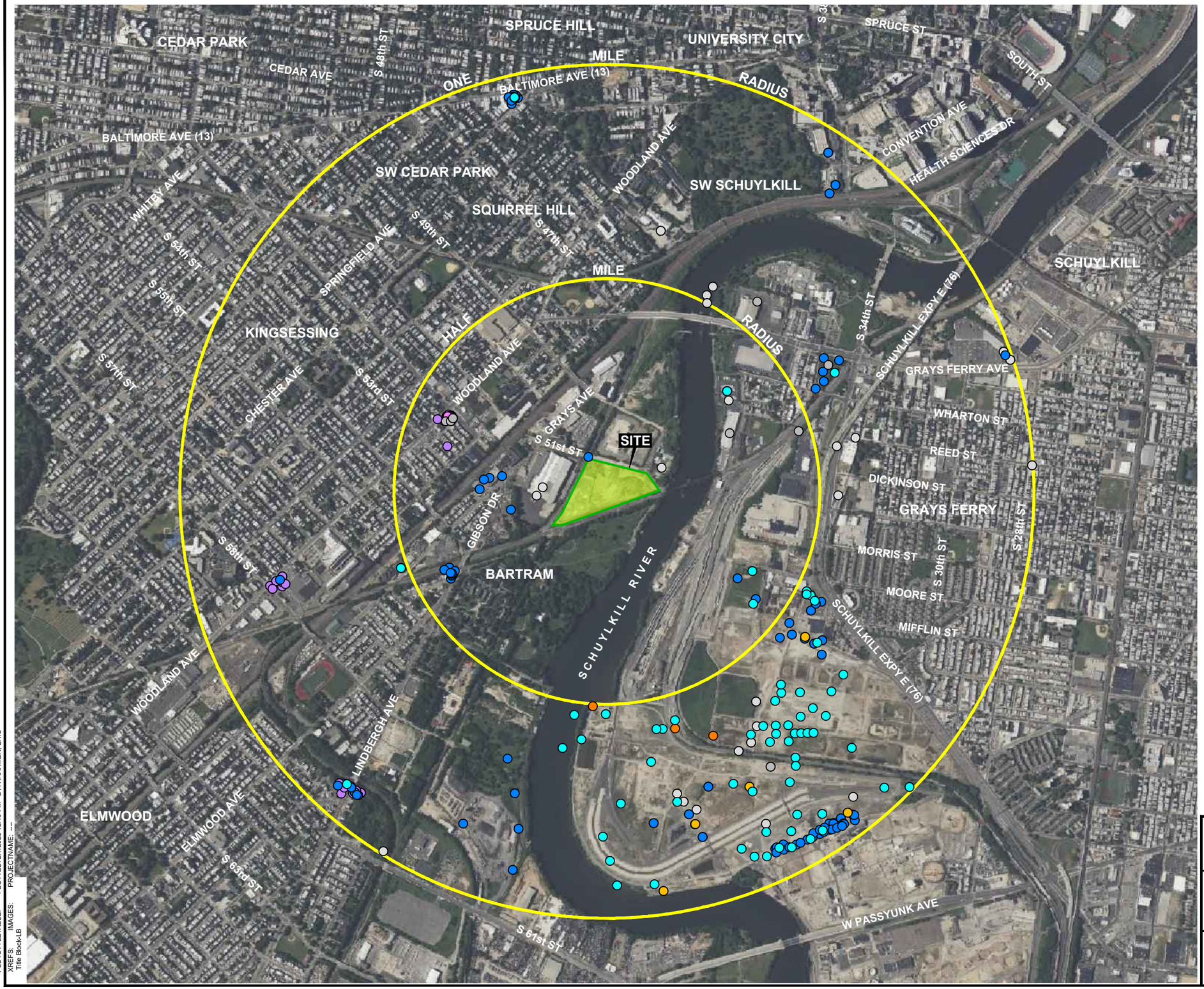
ALLIANCE HSP VENTURES
1646 S 51 ST STREET
PHILADELPHIA, PENNSYLVANIA

GROUNDWATER ELEVATION AND CONTOUR MAP JANUARY 2023

ARCADIS

FIGURE 7

C:\Users\PPHalliw\ACCDocs\Arcadis\AUS-ALLIANCE HSP VENTURES-1646 S 51ST-PHILADELPHIA Pennsylvania\Project Files\2023\01-In Progress\01-DWG\GEN-2023-FOX-GWC-JANUARY 2023.dwg LAYOUT: X SAVED: 2/15/2023 11:18 AM ACADVER: 24.0S (LMS TECH) PAGESETUP: ---- PLOTTED: 2/15/2023 11:18 AM BY: HALLIWELL, TRISH



LEGEND:

WELL USE:

- ABANDONED (58)
- DESTROYED (39)
- MONITORING (130)
- NO USE PROVIDED (16)
- OBSERVATION (3)
- TEST (2)
- UNUSED (11)
- WITHDRAWAL (72)
- 1-MILE AND 1/2-MILE RADII

NOTE:

1. AERIAL PHOTOGRAPH FROM 2020 MICROSOFT CORPORATION © DIGITAL GLOBE © CNES (2020) DISTRIBUTION AIRBUS DS BING.
2. THE WELL LOCATIONS ARE BASED ON THE LATITUDE AND LONGITUDE COORDINATES PROVIDED BY THE PENNSYLVANIA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES PENNSYLVANIA (PADCNR) GROUNDWATER INFORMATION SYSTEM (PaGWIS) PROGRAM. THE LOCATIONS ARE CONSIDERED APPROXIMATE.
3. SOME WELL LOCATIONS WITH DIFFERENT IDs ARE LOCATED AT THE SAME LATITUDE AND LONGITUDE COORDINATES IN ACCORDANCE WITH PaGWIS SURVEY RESULTS.

0 1,200' 2,400'

GRAPHIC SCALE

ALLIANCE HSP VENTURES
1630 SOUTH 51st STREET
PHILADELPHIA, PENNSYLVANIA

PaGWIS WELL SEARCH RESULTS

ARCADIS

FIGURE 8

C:\Users\ekrahmer\ACCDocs\Arcadis\AUS-ALLIANCE HSP VENTURES-1646 S 51ST-PHILADELPHIA PennsylvaniaProject Files\2023\01-In Progress\01-DWG\ALLIANCE_1630 S 51st_PHILADELPHIA_PA_PaGWIS.dwg LAYOUT: 1 SAVED: 2/7/2023 12:14 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 2/7/2023 12:16 PM BY: KRAHMER, ERIC
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Title Block-LB

APPENDIX A

DECEMBER 15, 2021 AST CLOUSRE REPORT

Stantec Consulting Services, Inc.
1060 Andrew Drive, Suite 140, West Chester PA 19380

December 15, 2021

Rebecca Flannery
Pennsylvania Department of Environmental Protection
Southeast Regional Office
2 East Main Street
Norristown, PA 19401

Reference: Aboveground Storage Tank Closure Documentation
51st Street Terminal
Facility ID: 51-10420

Dear Ms. Flannery:

Stantec Consulting Services, Inc. (Stantec), on behalf of PBF Logistics Products Terminals LLC (PLPT), is submitting the Aboveground Storage Tank (AST) closure documentation associated with closure of twelve ASTs at the PBF 51st Street Terminal located at 1630 South 51st Street, Philadelphia, Pennsylvania.

The AST closure sampling was performed in accordance with the applicable Pennsylvania Department of Environmental Protection (PADEP) Aboveground Storage Tank (AST) Closure Guidance documents and the *Work Plan for AST Closure Activities – Greater Than 90 Feet in Diameter* dated June 21, 2021, with the exception of tank bottom sampling conducted at AST 7551. Stantec initially attempted to collect the tank bottom samples via hand auger after removal of the tank. Upon refusal, Stantec mobilized a mini-excavator to collect the tank bottom samples and observed a compacted concrete layer at approximately two to two and a half feet below ground surface (bgs). Stantec then mobilized a full size back-hoe to attempt to collect the tank bottom samples at the prescribed depth of five feet bgs, again encountering refusal.

Stantec contacted the PADEP for guidance on collecting the tank bottom samples based on the field conditions. The PADEP agreed that collection of the tank bottom soil samples from just above the concrete layer at the location of AST 7551 was acceptable. Stantec proceeded by collecting the appropriate number of tank bottom samples between two and two and a half feet bgs.

Should you have any questions regarding the closure documentation enclosed, please contact me. My contact information is included below.

Reference: **Aboveground Storage Tank Closure Documentation**
PBF 51st Street Terminal

Regards,

STANTEC CONSULTING SERVICES, INC.

Mark Schaeffer, P.G.
Geologist
Phone: (610) 840-2552
Fax: (610) 840-2501
Mark.schaeffer@stantec.com

c. Todd Bretz, PBF Logistics
David Piercey, JD2
Stantec Project File

Table 1

PADEP Tank Identification Numbers	Site Tank Identification Numbers
040A	2040
041A	941
042A	1043
044A	1044
045A	2045
047A	4847
048A	1248
049A	649
050A	7550
051A	7551
052A	Additive
055A	3791

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

51-10420
Facility I.D.

51st Street Terminal
Facility Name

City of Philadelphia — Municipality
Philadelphia — County

11/30/2021
Date Prepared

John Grisi
Name of Person Submitting Report
(Please Print)

PBF Energy
Company Name
(If Applicable)

Terminal Manager
Title

Closure Method (Check all that apply):

- ☒ AST Removal
- ☐ AST Closure-In-Place
- ☐ AST Change-In-Service

Site Assessment Results (Check all that apply):

- ☐ No Obvious Contamination - Sample Results Meet Standards/Levels
- ☒ No Obvious Contamination - Sample Results Do Not Meet Standards/Levels
- ☐ Obvious, Localized Contamination - Sample Results Meet Standards/Levels
- ☐ Obvious, Localized Contamination - Sample Results Do Not Meet Standards/Levels
- ☐ Obvious, Extensive Contamination

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

DATE RECEIVED: _____

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Owners who are permanently closing aboveground storage tank systems may use this form to demonstrate that a storage tank system closure was performed in accordance with technical guidance document 263-4200-001 "Closure Requirements for Aboveground Storage Tank Systems". PLEASE PRINT OR TYPE. COMPLETE ALL QUESTIONS.

SECTION I. Owner/Facility/Tank/Waste Management and Disposal Information

1. Facility ID Number 51-10420
2. Facility Name 51st Street Terminal
3. Facility County Philadelphia
4. Facility Municipality City of Philadelphia
5. Facility Address 1630 South 51st Street, Philadelphia, Pennsylvania
6. Facility Contact Person Steve Brady
7. Facility Telephone Number (856) 687-5553
8. Owner Name PBF Logistics Products Terminas LLC
9. Owner Mailing Address 3rd Street and Billingsport Road
10. Description of Aboveground Storage Tank Systems (Complete for each tank system closed)

DATE OF TANK SYSTEM CLOSURE (Month/Day/Year)		09- 08 -2021	09- 08 -2021	09- 08 -2021	09- 08 -2021
Description of Aboveground Storage Tank System (Complete for each tank system undergoing closure)					
DEP Tank ID Number		040A	041A	042A	044A
Total Capacity (Gallons)		778,428	383,712	391,146	386,316
Substance(s) Stored Throughout Operating Life of Tank System (Check All That Apply)	**a. Petroleum**				
	Unleaded Gasoline	☐	☐	☐	☐
	Leaded Gasoline	☐	☐	☐	☐
	Aviation Gasoline	☐	☐	☐	☐
	Pure Ethanol	☐	☐	☐	☐
	Blended Ethanol _____%	☐	☐	☐	☐
	Kerosene	☐	☐	☐	☐
	Jet Fuel	☐	☐	☐	☐
	Diesel Fuel	☐	☐	☐	☐
	Biodiesel _____%	☐	☐	☐	☐
	Fuel Oil No. 1	☐	☐	☐	☐
	Fuel Oil No. 2	☒	☒	☒	☒
	Fuel Oil No. 4	☐	☐	☐	☐
	Fuel Oil No. 5	☐	☐	☐	☐
	Fuel Oil No. 6	☐	☐	☐	☐
	New Motor Oil	☐	☐	☐	☐
	Used Motor Oil	☐	☐	☐	☐
	Nonpetroleum Oil, Specify				
	Other, Specify				
NOTE: If Hazardous Substance Block is Checked, Attach Safety Data Sheets (SDS)	**b. Hazardous Substance**	☐	☐	☐	☐
	Name of Principal CERCLA Substance AND Chemical Abstract Service (CAS) No.				
	c. Unknown	☐	☐	☐	☐

CLOSURE METHOD(s):	DEP Tank ID Number:	040A	041A	042A	044A
Partial Storage Tank System Closure		☐	☐	☐	☐
Tank ☐ N/A	a. Removal	☒	☒	☒	☒
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Piping ☐ N/A	a. Removal	☒	☒	☒	☒
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Dispenser ☒ N/A	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Other _____	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐

Describe Closure Activities:

A total of 12 regulated ASTs were decommissioned as part of the facility closure including associated piping within the tank containment. Prior to demolition acitvities, all ASTs and associated piping were emptied and ASTs were cleaned. All demolition was observed by a PADEP certified tank inspector. Tanks were demolished and cut into pieces for disposal as scrap metal.

Yes **N/A**

11. Briefly describe the storage tank facility and the nature of the operations which were conducted at the facility (both historical and present) **including use of the storage tank systems:**

    The facility is a former bulk fuel oil storage facility and fill station for bulk transport.

☒ ☐ 12. A site location and sampling map of the site, drawn to scale, is attached.

☐ ☒ 13. Original, color photographs of the closure process involving any excavation are attached (i.e., inside of excavation/piping runs, pit water, containment structure and foundation showing condition).

☒ ☐ 14. An amended "Storage Tanks Registration/Permitting Application" Form was submitted to the DEP, Bureau of Environmental Cleanup and Brownfields, Division of Storage Tanks, P.O. Box 8762, Harrisburg, PA 17105-8762.

Date: 10 / 8 / 2021

☒ ☐ 15. If a release was confirmed, the appropriate regional office of DEP was notified by the owner or operator.

Date: 8 / 17 / 2021 Office: Southeast Regional

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

DATE RECEIVED: _____

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Owners who are permanently closing aboveground storage tank systems may use this form to demonstrate that a storage tank system closure was performed in accordance with technical guidance document 263-4200-001 "Closure Requirements for Aboveground Storage Tank Systems". PLEASE PRINT OR TYPE. COMPLETE ALL QUESTIONS.

SECTION I. Owner/Facility/Tank/Waste Management and Disposal Information

1. Facility ID Number 51-10420
2. Facility Name 51st Street Terminal
3. Facility County Philadelphia
4. Facility Municipality City of Philadelphia
5. Facility Address 1630 South 51st Street, Philadelphia, Pennsylvania
6. Facility Contact Person Steve Brady
7. Facility Telephone Number (856) 687-5553
8. Owner Name PBF Logistics Products Terminas LLC
9. Owner Mailing Address 3rd Street and Billingsport Road
10. Description of Aboveground Storage Tank Systems (Complete for each tank system closed)

DATE OF TANK SYSTEM CLOSURE (Month/Day/Year)		09- 08 -2021	09- 08 -2021	09- 08 -2021	09- 08 -2021
Description of Aboveground Storage Tank System (Complete for each tank system undergoing closure)					
DEP Tank ID Number		045A	047A	048A	049A
Total Capacity (Gallons)		800,898	1,945,734	486,738	235,830
Substance(s) Stored Throughout Operating Life of Tank System (Check All That Apply)	**a. Petroleum**				
	Unleaded Gasoline	☐	☐	☐	☐
	Leaded Gasoline	☐	☐	☐	☐
	Aviation Gasoline	☐	☐	☐	☐
	Pure Ethanol	☐	☐	☐	☐
	Blended Ethanol _____%	☐	☐	☐	☐
	Kerosene	☐	☐	☐	☐
	Jet Fuel	☐	☐	☐	☐
	Diesel Fuel	☐	☐	☐	☐
	Biodiesel _____%	☐	☐	☐	☐
	Fuel Oil No. 1	☐	☐	☐	☐
	Fuel Oil No. 2	☒	☒	☒	☒
	Fuel Oil No. 4	☐	☐	☐	☐
	Fuel Oil No. 5	☐	☐	☐	☐
	Fuel Oil No. 6	☐	☐	☐	☐
	New Motor Oil	☐	☐	☐	☐
	Used Motor Oil	☐	☐	☐	☐
	Nonpetroleum Oil, Specify				
	Other, Specify				
NOTE: If Hazardous Substance Block is Checked, Attach Safety Data Sheets (SDS)	**b. Hazardous Substance**	☐	☐	☐	☐
	Name of Principal CERCLA Substance AND Chemical Abstract Service (CAS) No.				
	c. Unknown	☐	☐	☐	☐

CLOSURE METHOD(s):	DEP Tank ID Number:	045A	047A	048A	049A
Partial Storage Tank System Closure		☐	☐	☐	☐
Tank ☐ N/A	a. Removal	☒	☒	☒	☒
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Piping ☐ N/A	a. Removal	☒	☒	☒	☒
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Dispenser ☒ N/A	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Other _____	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐

Describe Closure Activities:

A total of 12 regulated ASTs were decommissioned as part of the facility closure including all associated piping. Prior to demolition acitvities, all ASTs and associated piping were emptied and ASTs were cleaned. All demolition was observed by a PADEP certified tank inspector. Tanks were demolished and cut into pieces for disposal as scrap metal.

Yes **N/A**

11. Briefly describe the storage tank facility and the nature of the operations which were conducted at the facility (both historical and present) **including use of the storage tank systems:**

    The facility is a former bulk fuel oil storage facility and fill station for bulk transport.

☒ ☐ 12. A site location and sampling map of the site, drawn to scale, is attached.

☐ ☒ 13. Original, color photographs of the closure process involving any excavation are attached (i.e., inside of excavation/piping runs, pit water, containment structure and foundation showing condition).

☒ ☐ 14. An amended "Storage Tanks Registration/Permitting Application" Form was submitted to the DEP, Bureau of Environmental Cleanup and Brownfields, Division of Storage Tanks, P.O. Box 8762, Harrisburg, PA 17105-8762.

Date: 10 / 8 / 2021

☒ ☐ 15. If a release was confirmed, the appropriate regional office of DEP was notified by the owner or operator.

Date: 8 / 17 / 2021 Office: Southeast Regional

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

DATE RECEIVED: _____

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

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6. Facility Contact Person Steve Brady
7. Facility Telephone Number (856) 687-5553
8. Owner Name PBF Logistics Products Terminas LLC
9. Owner Mailing Address 3rd Street and Billingsport Road
10. Description of Aboveground Storage Tank Systems (Complete for each tank system closed)

DATE OF TANK SYSTEM CLOSURE (Month/Day/Year)		09- 08 -2021	09- 08 -2021	09- 08 -2021	09- 08 -2021
Description of Aboveground Storage Tank System (Complete for each tank system undergoing closure)					
DEP Tank ID Number		050A	051A	052A	055A
Total Capacity (Gallons)		3,016,608	3,019,422	2,000	6,000
Substance(s) Stored Throughout Operating Life of Tank System (Check All That Apply)	**a. Petroleum**				
	Unleaded Gasoline	☐	☐	☐	☐
	Leaded Gasoline	☐	☐	☐	☐
	Aviation Gasoline	☐	☐	☐	☐
	Pure Ethanol	☐	☐	☐	☐
	Blended Ethanol _____%	☐	☐	☐	☐
	Kerosene	☐	☐	☐	☐
	Jet Fuel	☐	☐	☐	☐
	Diesel Fuel	☐	☒	☐	☐
	Biodiesel _____%	☐	☐	☐	☐
	Fuel Oil No. 1	☐	☐	☐	☐
	Fuel Oil No. 2	☒	☒	☒	☒
	Fuel Oil No. 4	☐	☐	☐	☐
	Fuel Oil No. 5	☐	☐	☐	☐
	Fuel Oil No. 6	☐	☐	☐	☐
	New Motor Oil	☐	☐	☐	☐
	Used Motor Oil	☐	☐	☐	☐
	Nonpetroleum Oil, Specify				
	Other, Specify				
NOTE: If Hazardous Substance Block is Checked, Attach Safety Data Sheets (SDS)	**b. Hazardous Substance**	☐	☐	☐	☐
	Name of Principal CERCLA Substance AND Chemical Abstract Service (CAS) No.				
	c. Unknown	☐	☐	☐	☐

CLOSURE METHOD(s):	DEP Tank ID Number:	050A	051A	052A	055A
Partial Storage Tank System Closure		☐	☐	☐	☐
Tank ☐ N/A	a. Removal	☒	☒	☒	☒
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Piping ☐ N/A	a. Removal	☒	☒	☒	☒
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Dispenser ☒ N/A	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Other _____	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐

Describe Closure Activities:

A total of 12 regulated ASTs were decommissioned as part of the facility closure including all associated piping. Prior to demolition acitvities, all ASTs and associated piping were emptied and ASTs were cleaned. All demolition was observed by a PADEP certified tank inspector. Tanks were demolished and cut into pieces for disposal as scrap metal.

Yes **N/A**

11. Briefly describe the storage tank facility and the nature of the operations which were conducted at the facility (both historical and present) **including use of the storage tank systems:**

    The facility is a former bulk fuel oil storage facility and fill station for bulk transport.

☒ ☐ 12. A site location and sampling map of the site, drawn to scale, is attached.

☐ ☒ 13. Original, color photographs of the closure process involving any excavation are attached (i.e., inside of excavation/piping runs, pit water, containment structure and foundation showing condition).

☒ ☐ 14. An amended "Storage Tanks Registration/Permitting Application" Form was submitted to the DEP, Bureau of Environmental Cleanup and Brownfields, Division of Storage Tanks, P.O. Box 8762, Harrisburg, PA 17105-8762.

Date: 10 / 8 / 2021

☒ ☐ 15. If a release was confirmed, the appropriate regional office of DEP was notified by the owner or operator.

Date: 8 / 17 / 2021 Office: Southeast Regional

Yes **N/A**

☒ ☐ 16. If tanks were cleaned on-site:

a. Briefly describe the disposition of usable product: Residual product was transferred to tanks onsite or transported to a disposal facility

b. Briefly describe the disposal of unusable product, sludges, sediments, and wastewater generated during cleaning. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):
Liquids from tank cleaning activities were transported offsite to a disposal facility - Monarch Environmental, Woodstown, NJ - EPA ID NJDO11881174)

c. If tank contents were determined/deemed to be hazardous waste, provide:

(1) Generator ID Number:

(2) Licensed Hazardous Waste Transporter Name and ID Number:

☐ ☒ 17. If tanks were removed from the site for cleaning:

a. Provide the name and permit number of the processing, treatment, storage or disposal facility performing the tank cleaning:

b. If tank contents were determined/deemed to be hazardous waste, provide:

(1) Generator ID Number:

(2) Licensed Hazardous Waste Transporter Name and ID Number:

18. Briefly describe the disposition of tanks/piping (Attach documentation of proper disposal):
Tank and piping were cut into pieces and loaded onto trucks for transport to a recycling center

☒ ☐ 19. If contaminated soil is excavated:

a. Briefly describe the disposition and amount 20 (tons) of contaminated soil. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):

Approximately 20 tons of soil was generated during the pipe cutting process. Soils were transported to Miller Envioronmental Group facility in Woodstown, NJ (NYD986908085)

b. If contaminated soil is determined/deemed to be hazardous waste, provide:

(1) Generator ID Number: _____

(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

_____

Yes	N/A	
☐	☒	20. Briefly describe the disposition of and amount _____ (tons) of uncontaminated soil and debris (attach analyses):

_____

_____

_____

☐	☒	21. If the tanks were "Closed-in-Place" provide information below:

a. Briefly describe the tank cleaning process: _____

_____

b. If subcontracted, name and address of company that performed the tank cleaning:

_____

c. How were tanks marked/labeled with permanent closure date: _____

_____

_____

I, NEAL SAHNI, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating
(Print Name)
to unsworn falsification to authorities) that I am the owner of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

_____ 12/14/2021
Signature of Tank Owner Date

PBF LOGISTICS PRODUCTS TERMINALS
Company Name
(If applicable)

VICE PRESIDENT - LOGISTICS OPERATIONS
Title

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 10420
DEP Tank ID Number(s) #040A

Yes	N/A		
		1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris: The soil that was generated during the removal process was soil that may have been impacted during the pipe cutting process. Plastic was used as barrier during the piping cutting process. The soil was scraped up to ensure that any small spills or drips that ran off the plastic that may have reached the soil during the cutting process was not left behind.
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping: The piping was cleaned and then dismantled by shear or mechanical at flanges. Total length of piping from all of the tanks is estimated to be ~550 feet for the lower tank farm and ~1,500 feet for the upper tank farm.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities: No issues were encountered during the tank removal activities.
		4.	Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors: The tanks had been cleaned when they were placed into temporary closure years ago. Originally no vapors were found in any tank that required venting.
☒	☐	5.	If tanks were cleaned on-site: a. Briefly describe the tank cleaning process: Tanks and piping were cleaned of any residual oil by 4,000 psi pressure washing and draining. Residual product and wash liquids were transported for disposal (see attached documentation). b. If subcontracted, name and address of company that performed the tank cleaning: Miller Environmental, 105 Riverview Avenue, Paulsboro, NJ 08066
☐	☒	6.	If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:
☐	☐	7.	If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

I, **David J. Piercey**, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

(Print Name)

Signature of Certified Remover

11/18/21
Date

1620
Remover Certification Number

1557
Company Certification Number

JD2 Environmental, Inc.
Company Name

800 East Washington Street
Street

West Chester, PA 19380
City/Town, State, Zip

(610) 430-8151
Phone

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 10420
DEP Tank ID Number(s) #041A

Yes	N/A		
		1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris: The soil that was generated during the removal process was soil that may have been impacted during the pipe cutting process. Plastic was used as barrier during the piping cutting process. The soil was scraped up to ensure that any small spills or drips that ran off the plastic that may have reached the soil during the cutting process was not left behind.
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping: The piping was cleaned and then dismantled by shear or mechanical at flanges. Total length of piping from all of the tanks is estimated to be ~550 feet for the lower tank farm and ~1,500 feet for the upper tank farm.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities: No issues were encountered during the tank removal activities.
		4.	Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors: The tanks had been cleaned when they were placed into temporary closure years ago. Originally no vapors were found in any tank that required venting.
☒	☐	5.	If tanks were cleaned on-site: a. Briefly describe the tank cleaning process: Tanks were cleaned by 4,000 psi pressure washing. Residual product and wash liquids were transported for disposal (see attached documentation). b. If subcontracted, name and address of company that performed the tank cleaning: Miller Environmental, 105 Riverview Avenue, Paulsboro, NJ 08066
☐	☒	6.	If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:
☐	☐	7.	If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

I, **David J. Piercey**, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

(Print Name)

Signature of Certified Remover

11/18/21
Date

1620
Remover Certification Number

1557
Company Certification Number

JD2 Environmental, Inc.
Company Name

800 East Washington Street
Street

West Chester, PA 19380
City/Town, State, Zip

(610) 430-8151
Phone

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 10420
DEP Tank ID Number(s) #042A

Yes	N/A		
		1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris: The soil that was generated during the removal process was soil that may have been impacted during the pipe cutting process. Plastic was used as barrier during the piping cutting process. The soil was scraped up to ensure that any small spills or drips that ran off the plastic that may have reached the soil during the cutting process was not left behind.
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping: The piping was cleaned and then dismantled by shear or mechanical at flanges. Total length of piping from all of the tanks is estimated to be ~550 feet for the lower tank farm and ~1,500 feet for the upper tank farm.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities: No issues were encountered during the tank removal activities.
		4.	Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors: The tanks had been cleaned when they were placed into temporary closure years ago. Originally no vapors were found in any tank that required venting.
☒	☐	5.	If tanks were cleaned on-site: a. Briefly describe the tank cleaning process: Tanks were cleaned by 4,000 psi pressure washing. Residual product and wash liquids were transported for disposal (see attached documentation). b. If subcontracted, name and address of company that performed the tank cleaning: Miller Environmental, 105 Riverview Avenue, Paulsboro, NJ 08066
☐	☒	6.	If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:
☐	☐	7.	If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

I, David J. Piercey (Print Name), hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

Signature of Certified Remover

11/8/21
Date

1620
Remover Certification Number

1557
Company Certification Number

JD2 Environmental, Inc.
Company Name

800 East Washington Street
Street

West Chester, PA 19380
City/Town, State, Zip

(610) 430-8151
Phone

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 10420
DEP Tank ID Number(s) #044A

Yes	N/A		
		1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris: The soil that was generated during the removal process was soil that may have been impacted during the pipe cutting process. Plastic was used as barrier during the piping cutting process. The soil was scraped up to ensure that any small spills or drips that ran off the plastic that may have reached the soil during the cutting process was not left behind.
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping: The piping was cleaned and then dismantled by shear or mechanical at flanges. Total length of piping from all of the tanks is estimated to be ~550 feet for the lower tank farm and ~1,500 feet for the upper tank farm.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities: No issues were encountered during the tank removal activities.
		4.	Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors: The tanks had been cleaned when they were placed into temporary closure years ago. Originally no vapors were found in any tank that required venting.
☒	☐	5.	If tanks were cleaned on-site: a. Briefly describe the tank cleaning process: Tanks were cleaned by 4,000 psi pressure washing. Residual product and wash liquids were transported for disposal (see attached documentation). b. If subcontracted, name and address of company that performed the tank cleaning: Miller Environmental, 105 Riverview Avenue, Paulsboro, NJ 08066
☐	☒	6.	If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:
☐	☐	7.	If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

I, David J. Piercey (Print Name), hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

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ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 10420
DEP Tank ID Number(s) #045A

Yes	N/A		
		1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris: The soil that was generated during the removal process was soil that may have been impacted during the pipe cutting process. Plastic was used as barrier during the piping cutting process. The soil was scraped up to ensure that any small spills or drips that ran off the plastic that may have reached the soil during the cutting process was not left behind.
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping: The piping was cleaned and then dismantled by shear or mechanical at flanges. Total length of piping from all of the tanks is estimated to be ~550 feet for the lower tank farm and ~1,500 feet for the upper tank farm.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities: No issues were encountered during the tank removal activities.
		4.	Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors: The tanks had been cleaned when they were placed into temporary closure years ago. Originally no vapors were found in any tank that required venting.
☒	☐	5.	If tanks were cleaned on-site: a. Briefly describe the tank cleaning process: Tanks were cleaned by 4,000 psi pressure washing. Residual product and wash liquids were transported for disposal (see attached documentation). b. If subcontracted, name and address of company that performed the tank cleaning: Miller Environmental, 105 Riverview Avenue, Paulsboro, NJ 08066
☐	☒	6.	If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:
☐	☐	7.	If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

I, David J. Piercey (Print Name), hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

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ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 10420
DEP Tank ID Number(s) #047A

Yes	N/A		
		1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris: The soil that was generated during the removal process was soil that may have been impacted during the pipe cutting process. Plastic was used as barrier during the piping cutting process. The soil was scraped up to ensure that any small spills or drips that ran off the plastic that may have reached the soil during the cutting process was not left behind.
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping: The piping was cleaned and then dismantled by shear or mechanical at flanges. Total length of piping from all of the tanks is estimated to be ~550 feet for the lower tank farm and ~1,500 feet for the upper tank farm.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities: No issues were encountered during the tank removal activities.
		4.	Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors: The tanks had been cleaned when they were placed into temporary closure years ago. Originally no vapors were found in any tank that required venting.
☒	☐	5.	If tanks were cleaned on-site: a. Briefly describe the tank cleaning process: Tanks were cleaned by 4,000 psi pressure washing. Residual product and wash liquids were transported for disposal (see attached documentation). b. If subcontracted, name and address of company that performed the tank cleaning: Miller Environmental, 105 Riverview Avenue, Paulsboro, NJ 08066
☐	☒	6.	If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:
☐	☐	7.	If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

I, David J. Piercey (Print Name), hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

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ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 10420
DEP Tank ID Number(s) #048A

Yes	N/A		
		1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris: The soil that was generated during the removal process was soil that may have been impacted during the pipe cutting process. Plastic was used as barrier during the piping cutting process. The soil was scraped up to ensure that any small spills or drips that ran off the plastic that may have reached the soil during the cutting process was not left behind.
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping: The piping was cleaned and then dismantled by shear or mechanical at flanges. Total length of piping from all of the tanks is estimated to be ~550 feet for the lower tank farm and ~1,500 feet for the upper tank farm.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities: No issues were encountered during the tank removal activities.
		4.	Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors: The tanks had been cleaned when they were placed into temporary closure years ago. Originally no vapors were found in any tank that required venting.
☒	☐	5.	If tanks were cleaned on-site: a. Briefly describe the tank cleaning process: Tanks were cleaned by 4,000 psi pressure washing. Residual product and wash liquids were transported for disposal (see attached documentation). b. If subcontracted, name and address of company that performed the tank cleaning: Miller Environmental, 105 Riverview Avenue, Paulsboro, NJ 08066
☐	☒	6.	If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:
☐	☐	7.	If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

I, **David J. Piercey**, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

(Print Name)

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Date

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ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 10420
DEP Tank ID Number(s) #049A

Yes N/A

1. Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris:

   The soil that was generated during the removal process was soil that may have been impacted during the pipe cutting process. Plastic was used as barrier during the piping cutting process. The soil was scraped up to ensure that any small spills or drips that ran off the plastic that may have reached the soil during the cutting process was not left behind.

2. Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping:

   The piping was cleaned and then dismantled by shear or mechanical at flanges. Total length of piping from all of the tanks is estimated to be ~550 feet for the lower tank farm and ~1,500 feet for the upper tank farm.

3. Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities:

   No issues were encountered during the tank removal activities.

4. Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors:

   The tanks had been cleaned when they were placed into temporary closure years ago. Originally no vapors were found in any tank that required venting.

☒ ☐ 5. If tanks were cleaned on-site:

   a. Briefly describe the tank cleaning process: Tanks were cleaned by 4,000 psi pressure washing. Residual product and wash liquids were transported for disposal (see attached documentation).

   b. If subcontracted, name and address of company that performed the tank cleaning:

      Miller Environmental, 105 Riverview Avenue, Paulsboro, NJ 08066

☐ ☒ 6. If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:

☐ ☐ 7. If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

I, David J. Piercey, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

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ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 10420
DEP Tank ID Number(s) #050A

Yes	N/A		
		1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris: The soil that was generated during the removal process was soil that may have been impacted during the pipe cutting process. Plastic was used as barrier during the piping cutting process. The soil was scraped up to ensure that any small spills or drips that ran off the plastic that may have reached the soil during the cutting process was not left behind.
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping: The piping was cleaned and then dismantled by shear or mechanical at flanges. Total length of piping from all of the tanks is estimated to be ~550 feet for the lower tank farm and ~1,500 feet for the upper tank farm.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities: No issues were encountered during the tank removal activities.
		4.	Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors: The tanks had been cleaned when they were placed into temporary closure years ago. Originally no vapors were found in any tank that required venting.
☒	☐	5.	If tanks were cleaned on-site: a. Briefly describe the tank cleaning process: Tanks were cleaned by 4,000 psi pressure washing. Residual product and wash liquids were transported for disposal (see attached documentation). b. If subcontracted, name and address of company that performed the tank cleaning: Miller Environmental, 105 Riverview Avenue, Paulsboro, NJ 08066
☐	☒	6.	If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:
☐	☐	7.	If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

I, David J. Piercey, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

(Print Name)

Signature of Certified Remover

11/18/21
Date

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ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 10420
DEP Tank ID Number(s) #051A

Yes	N/A		
		1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris: The soil that was generated during the removal process was soil that may have been impacted during the pipe cutting process. Plastic was used as barrier during the piping cutting process. The soil was scraped up to ensure that any small spills or drips that ran off the plastic that may have reached the soil during the cutting process was not left behind.
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping: The piping was cleaned and then dismantled by shear or mechanical at flanges. Total length of piping from all of the tanks is estimated to be ~550 feet for the lower tank farm and ~1,500 feet for the upper tank farm.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities: No issues were encountered during the tank removal activities.
		4.	Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors: The tanks had been cleaned when they were placed into temporary closure years ago. Originally no vapors were found in any tank that required venting.
☒	☐	5.	If tanks were cleaned on-site: a. Briefly describe the tank cleaning process: Tanks were cleaned by 4,000 psi pressure washing. Residual product and wash liquids were transported for disposal (see attached documentation). b. If subcontracted, name and address of company that performed the tank cleaning: Miller Environmental, 105 Riverview Avenue, Paulsboro, NJ 08066
☐	☒	6.	If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:
☐	☐	7.	If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

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Signature of Certified Remover

11/18/21
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ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 10420
DEP Tank ID Number(s) #052A

Yes N/A

1. Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris:

   The soil that was generated during the removal process was soil that may have been impacted during the pipe cutting process. Plastic was used as barrier during the piping cutting process. The soil was scraped up to ensure that any small spills or drips that ran off the plastic that may have reached the soil during the cutting process was not left behind.

2. Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping:

   The piping was cleaned and then dismantled by shear or mechanical at flanges. Total length of piping from all of the tanks is estimated to be ~550 feet for the lower tank farm and ~1,500 feet for the upper tank farm.

3. Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities:

   No issues were encountered during the tank removal activities.

4. Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors:

   The tanks had been cleaned when they were placed into temporary closure years ago. Originally no vapors were found in any tank that required venting.

☒ ☐ 5. If tanks were cleaned on-site:

   a. Briefly describe the tank cleaning process: Tanks and piping were cleaned of any residual oil by 4,000 psi pressure washing and draining. Residual product and wash liquids were transported for disposal (see attached documentation).

   b. If subcontracted, name and address of company that performed the tank cleaning:

      Miller Environmental, 105 Riverview Avenue, Paulsboro, NJ 08066

☐ ☒ 6. If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry: _____

☐ ☐ 7. If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

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(Print Name)

Signature of Certified Remover

11/18/21
Date

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ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 10420
DEP Tank ID Number(s) #055A

Yes	N/A		
		1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris: The soil that was generated during the removal process was soil that may have been impacted during the pipe cutting process. Plastic was used as barrier during the piping cutting process. The soil was scraped up to ensure that any small spills or drips that ran off the plastic that may have reached the soil during the cutting process was not left behind.
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping: The piping was cleaned and then dismantled by shear or mechanical at flanges. Total length of piping from all of the tanks is estimated to be ~550 feet for the lower tank farm and ~1,500 feet for the upper tank farm.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities: No issues were encountered during the tank removal activities.
		4.	Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors: The tanks had been cleaned when they were placed into temporary closure years ago. Originally no vapors were found in any tank that required venting.
☒	☐	5.	If tanks were cleaned on-site: a. Briefly describe the tank cleaning process: Tanks and piping were cleaned of any residual oil by 4,000 psi pressure washing and draining. Residual product and wash liquids were transported for disposal (see attached documentation). b. If subcontracted, name and address of company that performed the tank cleaning: Miller Environmental, 105 Riverview Avenue, Paulsboro, NJ 08066
☐	☒	6.	If tanks were "Closed-in-Place", briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry:
☐	☐	7.	If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

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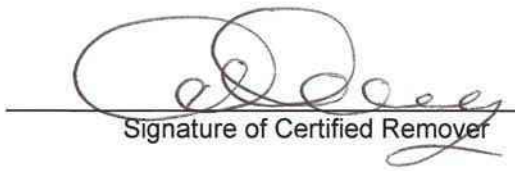
(Print Name)



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ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 40A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 10420

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

_____ ------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ------→ Remove or remediate contaminated soil ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ NO ------→ Continue Interim Remedial Actions ------→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

Continue with corrective action ------→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Mark Schaeffer , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Signature of Person Performing Site Assessment

11/30/2021
Date

Associate Geologist
Title of Person Performing Site Assessment

Stantec Consulting Services, Inc.
Name of Company Performing Site Assessment

610-840-2552
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 41A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 10420

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

_____ ------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ------→ Remove or remediate contaminated soil ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ NO ------→ Continue Interim Remedial Actions ------→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

Continue with corrective action ------→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Mark Schaeffer , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Signature of Person Performing Site Assessment

11/30/2021
Date

Associate Geologist
Title of Person Performing Site Assessment

Stantec Consulting Services, Inc.
Name of Company Performing Site Assessment

610-840-2552
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 42A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 10420

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

_____ ------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ------→ Remove or remediate contaminated soil ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ NO ------→ Continue Interim Remedial Actions ------→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

Continue with corrective action ------→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Mark Schaeffer , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Signature of Person Performing Site Assessment

11/30/2021
Date

Associate Geologist
Title of Person Performing Site Assessment

Stantec Consulting Services, Inc.
Name of Company Performing Site Assessment

610-840-2552
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 44A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 10420

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

_____ ------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ------→ Remove or remediate contaminated soil ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ NO ------→ Continue Interim Remedial Actions ------→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

Continue with corrective action ------→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Mark Schaeffer , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Signature of Person Performing Site Assessment

11/30/2021
Date

Associate Geologist
Title of Person Performing Site Assessment

Stantec Consulting Services, Inc.
Name of Company Performing Site Assessment

610-840-2552
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 45A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 10420

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

_____ ------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ------→ Remove or remediate contaminated soil ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ NO ------→ Continue Interim Remedial Actions ------→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

Continue with corrective action ------→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Mark Schaeffer , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Signature of Person Performing Site Assessment

11/30/2021
Date

Associate Geologist
Title of Person Performing Site Assessment

Stantec Consulting Services, Inc.
Name of Company Performing Site Assessment

610-840-2552
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 47A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 10420

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

_____ ------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ------→ Remove or remediate contaminated soil ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ NO ------→ Continue Interim Remedial Actions ------→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

Continue with corrective action ------→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Mark Schaeffer , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Signature of Person Performing Site Assessment

11/30/2021
Date

Associate Geologist
Title of Person Performing Site Assessment

Stantec Consulting Services, Inc.
Name of Company Performing Site Assessment

610-840-2552
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 48A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 10420

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

_____ ------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ------→ Remove or remediate contaminated soil ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ NO ------→ Continue Interim Remedial Actions ------→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

Continue with corrective action ------→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Mark Schaeffer , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Signature of Person Performing Site Assessment

11/30/2021
Date

Associate Geologist
Title of Person Performing Site Assessment

Stantec Consulting Services, Inc.
Name of Company Performing Site Assessment

610-840-2552
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 49A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 10420

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

_____ ------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ------→ Remove or remediate contaminated soil ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ NO ------→ Continue Interim Remedial Actions ------→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

Continue with corrective action ------→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

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I, Mark Schaeffer , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Signature of Person Performing Site Assessment

11/30/2021
Date

Associate Geologist
Title of Person Performing Site Assessment

Stantec Consulting Services, Inc.
Name of Company Performing Site Assessment

610-840-2552
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 50A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 10420

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

_____ ------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ------→ Remove or remediate contaminated soil ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ NO ------→ Continue Interim Remedial Actions ------→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

Continue with corrective action ------→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Mark Schaeffer , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Signature of Person Performing Site Assessment

11/30/2021
Date

Associate Geologist
Title of Person Performing Site Assessment

Stantec Consulting Services, Inc.
Name of Company Performing Site Assessment

610-840-2552
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 51A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 10420

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

_____ ------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ------→ Remove or remediate contaminated soil ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ NO ------→ Continue Interim Remedial Actions ------→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

Continue with corrective action ------→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Mark Schaeffer , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Signature of Person Performing Site Assessment

11/30/2021
Date

Associate Geologist
Title of Person Performing Site Assessment

Stantec Consulting Services, Inc.
Name of Company Performing Site Assessment

610-840-2552
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 52A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 10420

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO --------► Conduct confirmatory sampling --------► See end of this section for options on submission and maintenance of closure records --------► Do not complete item C.2. below.

☐ YES --------► Report release to DEP within 24 hours ------► Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

_____ ------► Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ------► Remove or remediate contaminated soil -----► Conduct confirmatory sampling -----► See end of this section for options on submission and maintenance of closure records.

☐ NO ------► Continue Interim Remedial Actions -----► See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO -----► Conduct confirmatory sampling -----► See end of this section for options on submission and maintenance of closure records.

☐ YES -----► Report release to DEP within 24 hours -----► Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

Continue with corrective action -----► See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Mark Schaeffer , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Signature of Person Performing Site Assessment

11/30/2021
Date

Associate Geologist
Title of Person Performing Site Assessment

Stantec Consulting Services, Inc.
Name of Company Performing Site Assessment

610-840-2552
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 55A (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 51 - 10420

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling or removing the tank system?

☒ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

_____ ------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ------→ Remove or remediate contaminated soil ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ NO ------→ Continue Interim Remedial Actions ------→ See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records.

☐ YES ------→ Report release to DEP within 24 hours ------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

_____

_____

_____

Continue with corrective action ------→ See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

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(b) By the current owners and operators of the tank system site; or
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Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

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I, Mark Schaeffer , hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn
(Print Name)
falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Signature of Person Performing Site Assessment

11/30/2021
Date

Associate Geologist
Title of Person Performing Site Assessment

Stantec Consulting Services, Inc.
Name of Company Performing Site Assessment

610-840-2552
Telephone Number of Person Performing Site Assessment

Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	649-P1 8/11/2021 3.0 410-51060-9	649-P2 8/12/2021 3.0 410-51060-10	649-P3 8/11/2021 3.0 410-51060-8	649-P4 8/12/2021 3.0 410-51060-11	649-P5 8/13/2021 3.0 410-51318-5	649-Center 9/16/2021 5.0 410-55731-2	941-P1 8/10/2021 3.0 410-50879-4	941-P2 / DUP-2 8/10/2021 2.0 410-50672-11	941-P2 / DUP-2 8/10/2021 410-50672-9	941-P3 8/10/2021 3.0 410-50879-1	941-P4 8/10/2021 3.0 410-50879-2	941-P5 8/10/2021 3.0 410-50879-3	941-Center 9/23/2021 5.0 410-56522-4	1043-P1 8/5/2021 3.0 410-50281-30
Ethylbenzene	*880*	*1,000*	70	ND (0.00082)	ND (0.00064)	ND (0.00066)	ND (0.00061)	ND (0.037)	ND (0.043)	ND (0.00031)	ND (0.00093)	ND (0.00077)	0.00081 J	ND (0.045)	ND (0.00076)	ND (0.00090)	ND (0.00066)
1,2-Dichloroethane	*85*	*98*	0.5	0.0014 J	0.0015 J	ND (0.00099)	0.0023 J	ND (0.055)	ND (0.064)	ND (0.00046)	0.0027 J	0.0020 J	0.0039 J	ND (0.067)	0.0065 J	ND (0.0013)	ND (0.00098)
1,3,5-Trimethylbenzene	*4,700*	*5,400*	93	ND (0.0010)	ND (0.00080)	ND (0.00083)	0.0011 J	ND (0.046)	ND (0.150)	ND (0.00038)	0.0032 J	0.0014 J	0.0022 J	ND (0.056)	0.0013 J	ND (0.0011)	ND (0.00082)
Toluene	*10,000*	*10,000*	100	0.0082 J	0.0031 J	ND (0.00099)	0.019	ND (0.055)	ND (0.064)	ND (0.00046)	0.040	0.018	0.037	ND (0.067)	0.030	ND (0.0013)	ND (0.00098)
Xylenes, Total	*7,900*	*9,100*	1,000	0.0096 J	ND (0.0023)	ND (0.0023)	0.011 J	ND (0.130)	ND (0.150)	ND (0.0011)	0.021 J	0.0092 J	0.014 J	ND (0.160)	0.0085 J	ND (0.0031)	ND (0.0023)
Methyl tertiary butyl ether	*8,500*	*9,800*	96	ND (0.0010)	ND (0.00080)	ND (0.00083)	ND (0.00076)	ND (0.046)	ND (0.054)	ND (0.00038)	ND (0.0012)	ND (0.00096)	ND (0.00094)	ND (0.056)	ND (0.00095)	ND (0.0011)	ND (0.00082)
Benzene	*280*	*330*	0.5	0.0075 J	0.0030 J	ND (0.00083)	0.013	ND (0.046)	ND (0.054)	ND (0.00038)	0.028	0.017	0.046	ND (0.056)	0.038	ND (0.0011)	0.0016 J
Napthalene	*66*	*77*	25	ND (0.0041)	ND (0.0032)	ND (0.0033)	ND (0.0030)	ND (0.180)	ND (0.210)	ND (0.0015)	ND (0.0047)	ND (0.0038)	ND (0.0038)	ND (0.220)	ND (0.0038)	ND (0.0045)	ND (0.0033)
1,2,4-Trimethylbenzene	*4,700*	*5,400*	300	0.0011 J	ND (0.00080)	ND (0.00083)	0.0018 J	ND (0.046)	ND (0.054)	ND (0.00038)	0.0058 J	0.0022 J	0.0019 J	ND (0.056)	0.0014 J	ND (0.0011)	ND (0.00082)
Isopropylbenzene	*10,000*	*10,000*	2,500	ND (0.00082)	ND (0.00064)	ND (0.00066)	ND (0.00061)	ND (0.037)	ND (0.043)	ND (0.00031)	ND (0.00093)	ND (0.00077)	ND (0.00075)	ND (0.045)	ND (0.00076)	ND (0.00090)	ND (0.00066)
1,2,-Dibromoethane	*3.7*	*4.2*	0.005	ND (0.00082)	ND (0.00064)	ND (0.00066)	ND (0.00061)	ND (0.037)	ND (0.043)	ND (0.00031)	ND (0.00093)	ND (0.00077)	ND (0.00075)	ND (0.045)	ND (0.00076)	ND (0.00090)	ND (0.00066)
Anthracene	*190,000*	*190,000*	350	ND (0.0052)	0.042	0.086	0.011 J	ND (0.0042)	0.037	ND (0.0039)	0.037	0.023	ND (0.0044)	ND (0.0041)	ND (0.0042)	45	0.066
Benzo(a)anthracene	*130*	*190,000*	340	0.020 J	0.83	0.24	0.024	0.010 J	0.092	0.0046 J	0.081	0.052	0.0047 J	0.0059 J	0.0066 J	49	0.210
Benzo(a)pyrene	*91*	*190,000*	46	0.025 J	0.92	0.19	0.028	0.011 J	0.083	0.0040 J	0.120	0.075	ND (0.0044)	0.0064 J	0.0068 J	35	0.160
Benzo(b)fluoranthene	*76*	*190,000*	170	0.035	1.1	0.22	0.05	0.020 J	0.098	0.0053 J	0.170	0.100	0.0064 J	0.0095 J	0.011 J	38	0.190
Benzo(g,h,i)perylene	*190,000*	*190,000*	180	0.032	0.6	0.13	0.031	0.015 J	0.048	ND (0.0039)	0.130	0.087	ND (0.0044)	0.0075 J	0.0093 J	17	0.110
Chrysene	*760*	*190,000*	230	0.027	0.78	0.23	0.04	0.015 J	0.098	0.0048 J	0.100	0.063	0.0085 J	0.012 J	0.016 J	41	0.200
Fluorene	*130,000*	*190,000*	3,800	ND (0.0052)	0.0065 J	0.024	ND (0.0044)	ND (0.0042)	0.015 J	ND (0.0039)	0.0074 J	ND (0.0046)	ND (0.0044)	ND (0.0041)	ND (0.0042)	24	0.028
Phenanthrene	*190,000*	*190,000*	10,000	0.031	0.075	0.36	0.041	0.017 J	0.15	ND (0.0047)	0.054	0.047	0.027	0.023	0.023	150	0.280
Pyrene	*96,000*	*190,000*	2,200	0.031	1.3	0.46	0.042	0.016 J	0.18	ND (0.0039)	0.097	0.065	0.012	0.0087 J	0.012 J	89	0.350
Lead	*1,000*	*190,000*	450	83	46	230	25	270	230	7.9	130	78	610	270	37	**560**	87

PADEP - Pennsylvania Department of Environmetnal Protection
NR DC MSC - Non-Residential Direct Contact Medium Specific Concentration
S to G MSC - Non-Residential Soil to Groundwater MSC
All concentrations in micrograms per kilogram
J - Value estimated by the laboratory
ND - analyte not detected at laboratory method detection limit indicated
Red Shaded Value - exceeds DC MSC
Blue Shaded Value - exceeds S to G MSC

Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	1043-P2	1043-P3 / DUP-2		1043-P4	1043-P5	1043-Center	1044-P1	1044-P2	1044-P3	1044-P4	1044-P5	1044-Center	1248-P1	1248-P2
				8/5/2021	8/5/2021	8/5/2021	8/5/2021	8/5/2021	9/16/2021	8/12/2021	8/13/2021	8/12/2021	8/5/2021	8/11/2021	9/16/2021	8/4/2021	8/4/2021
				3.0	3.0		3.0	3.0	5.0	3.0	3.0	3.0	3.0	3.0	5.0	3.0	3.0
				410-50151-9	410-50151-6	410-50151-7	410-50281-29	410-50281-28	410-55731-3	410-51318-3	410-51318-6	410-51318-4	410-50281-12	410-51060-7	410-55731-1	410-50151-18	410-50151-15
Ethylbenzene	880	1,000	70	ND (0.00058)	ND (0.00062)	ND (0.00062)	ND (0.00070)	ND (0.00076)	ND (0.038)	ND (0.036)	ND (0.00057)	ND (0.00060)	ND (0.00054)	ND (0.00080)	ND (0.039)	ND (0.00046)	ND (0.00044)
1,2-Dichloroethane	85	98	0.5	ND (0.00088)	ND (0.00093)	ND (0.00093)	ND (0.001)	ND (0.0011)	ND (0.057)	ND (0.053)	ND (0.00085)	ND (0.00090)	ND (0.00080)	ND (0.0012)	ND (0.059)	ND (0.00069)	ND (0.00066)
1,3,5-Trimethylbenzene	4,700	5,400	93	ND (0.00073)	ND (0.00078)	ND (0.00077)	ND (0.00087)	ND (0.00095)	ND (0.047)	ND (0.045)	ND (0.00071)	ND (0.00075)	ND (0.00067)	ND (0.0010)	ND (0.049)	ND (0.00058)	ND (0.00055)
Toluene	10,000	10,000	100	0.00094 J	ND (0.00093)	ND (0.00093)	ND (0.001)	ND (0.0011)	ND (0.057)	ND (0.053)	0.0015 J	ND (0.00090)	ND (0.00080)	ND (0.0012)	ND (0.059)	ND (0.00069)	ND (0.00066)
Xylenes, Total	7,900	9,100	1,000	ND (0.002)	ND (0.0022)	ND (0.0022)	ND (0.0024)	ND (0.0027)	ND (0.130)	ND (0.120)	ND (0.0020)	ND (0.0021)	ND (0.0019)	ND (0.0028)	ND (0.140)	ND (0.0016)	ND (0.0015)
Methyl tertiary butyl ether	8,500	9,800	96	ND (0.00073)	ND (0.00078)	ND (0.00077)	ND (0.00087)	ND (0.00095)	ND (0.047)	ND (0.045)	ND (0.00071)	ND (0.00075)	ND (0.00067)	ND (0.0010)	ND (0.049)	ND (0.00058)	ND (0.00055)
Benzene	280	330	0.5	0.0019 J	ND (0.00078)	ND (0.00077)	0.0026 J	0.0013 J	ND (0.047)	ND (0.045)	0.0036 J	ND (0.00075)	0.0013 J	ND (0.0010)	ND (0.049)	ND (0.00058)	ND (0.00055)
Napthalene	66	77	25	ND (0.0029)	ND (0.0031)	ND (0.0031)	ND (0.0035)	ND (0.0038)	ND (0.190)	ND (0.180)	ND (0.0028)	ND (0.0030)	ND (0.0027)	ND (0.0040)	0.55	ND (0.0023)	ND (0.0022)
1,2,4-Trimethylbenzene	4,700	5,400	300	ND (0.00073)	ND (0.00078)	ND (0.00077)	ND (0.00087)	ND (0.00095)	ND (0.047)	ND 90.045)	ND (0.00071)	ND (0.00075)	ND (0.00067)	ND (0.0010)	ND (0.049)	ND (0.00058)	ND (0.00055)
Isopropylbenzene	10,000	10,000	2,500	ND (0.00058)	ND (0.00062)	ND (0.00062)	ND (0.00070)	ND (0.00076)	ND (0.038)	ND (0.036)	ND (0.00057)	ND (0.00060)	ND (0.00054)	ND (0.00080)	ND (0.039)	ND (0.00046)	ND (0.00044)
1,2,-Dibromoethane	3.7	4.2	0.005	ND (0.00058)	ND (0.00062)	ND (0.00062)	ND (0.00070)	ND (0.00076)	ND (0.038)	ND (0.036)	ND (0.00057)	ND (0.00060)	ND (0.00054)	ND (0.00080)	ND (0.039)	ND (0.00046)	ND (0.00044)
Anthracene	190,000	190,000	350	0.038	ND (0.0042)	ND (0.0042)	0.420	0.110	ND (0.0041)	0.0095 J	0.028	0.05	0.064	0.039	0.014 J	ND (0.0039)	ND (0.0036)
Benzo(a)anthracene	130	190,000	340	0.026	ND (0.0042)	ND (0.0042)	3.10	0.290	ND (0.0041)	0.018 J	0.18	0.18	0.120	0.017 J	0.075	ND (0.0039)	ND (0.0036)
Benzo(a)pyrene	91	190,000	46	0.031	ND (0.0042)	ND (0.0042)	2.70	0.200	ND (0.0041)	0.018 J	0.2	0.2	0.095	0.024	0.13	ND (0.0039)	ND (0.0036)
Benzo(b)fluoranthene	76	190,000	170	0.049	0.0056 J	0.0049 J	2.80	0.300	0.0042 J	0.025	0.23	0.33	0.120	0.033	0.16	ND (0.0039)	ND (0.0036)
Benzo(g,h,i)perylene	190,000	190,000	180	0.032	ND (0.0042)	ND (0.0042)	1.70	0.150	ND (0.0041)	0.017 J	0.16	0.22	0.077	0.022 J	0.098	ND (0.0039)	ND (0.0036)
Chrysene	760	190,000	230	0.039	0.0076 J	ND (0.0042)	2.60	0.280	ND (0.0041)	0.020 J	0.18	0.25	0.120	0.028	0.097	ND (0.0039)	ND (0.0036)
Fluorene	130,000	190,000	3,800	0.0077 J	ND (0.0042)	ND (0.0042)	0.054	0.043	ND (0.0041)	ND (0.0042)	0.0085 J	ND (0.0050)	0.370	ND (0.0048)	ND (0.0048)	ND (0.0039)	ND (0.0036)
Phenanthrene	190,000	190,000	10,000	0.100	0.062	ND (0.0042)	0.820	0.470	0.1	0.028	0.11	0.16	0.099	0.036	0.075	ND (0.0047)	ND (0.0043)
Pyrene	96,000	190,000	2,200	0.056	0.0084 J	ND (0.0042)	4.10	0.470	ND (0.0041)	0.025	0.2	0.32	0.150	0.034	0.079	ND (0.0039)	ND (0.0036)
Lead	1,000	190,000	450	490	9.7	120	880	560	23	90	380	**810**	**2100**	120	**990**	17	13

PADEP - Pennsylvania Department of Environmetnal Protection
NR DC MSC - Non-Residential Direct Contact Medium Specific Concentration
S to G MSC - Non-Residential Soil to Groundwater MSC
All concentrations in micrograms per kilogram
J - Value estimated by the laboratory
ND - analyte not detected at laboratory method detection limit indicated
Red Shaded Value - exceeds DC MSC
Blue Shaded Value - exceeds S to G MSC

Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	DUP-1 8/4/2021 3.0 410-50151-16	1248-P3 8/4/2021 3.0 410-50151-14	1248-P4 8/4/2021 3.0 410-50151-13	1248-P5 8/4/2021 3.0 410-50151-11	1248-Center 9/16/2021 5.0 410-55731-4	DUP-8 9/16/2021 5.0 410-55731-5	2040-P1 8/11/2021 3.0 410-50879-23	2040-P2 8/11/2011 3.0 410-50879-16	2040-P3 8/11/2011 3.0 410-50879-17	2040-P4 8/11/2011 3.0 410-50879-18	2040-P5 8/11/2011 3.0 410-50879-19	2040-Center 9/23/2021 5.0 410-56522-2	2045-P1 8/10/2021 3.0 410-50879-8	2045-P2 8/13/2021 3.0 410-51318-7
Ethylbenzene	*880*	*1,000*	70	ND (0.00047)	ND (0.00046)	ND (0.00049)	ND (0.00023)	ND (0.030)	ND (0.031)	ND (0.00068)	ND (0.00057)	ND (0.00042)	ND (0.00041)	ND (0.00076)	ND (0.00075)	0.00073 J	ND (0.00056)
1,2-Dichloroethane	*85*	*98*	0.5	ND (0.00071)	ND (0.00069)	ND (0.00074)	ND (0.00035)	ND (0.045)	ND (0.047)	ND (0.0010)	ND (0.00086)	ND (0.00062)	ND (0.00061)	ND (0.0011)	ND (0.0011)	ND (0.00090)	ND (0.00084)
1,3,5-Trimethylbenzene	*4,700*	*5,400*	93	ND (0.00059)	ND (0.00057)	ND (0.00062)	ND (0.00029)	ND (0.037)	ND (0.039)	ND (0.00086)	ND (0.00071)	ND (0.00052)	ND (0.00051)	ND (0.00094)	ND (0.00094)	ND (0.00075)	ND (0.00070)
Toluene	*10,000*	*10,000*	100	ND (0.00071)	ND (0.00069)	ND (0.00074)	ND (0.00035)	ND (0.045)	ND (0.047)	ND (0.0010)	0.00095 J	ND (0.00062)	ND (0.00061)	0.0051 J	ND (0.0011)	0.0012 J	0.0033 J
Xylenes, Total	*7,900*	*9,100*	1,000	ND (0.0017)	ND (0.0016)	ND (0.0017)	ND (0.00081)	ND (0.100)	ND (0.110)	ND (0.0024)	ND (0.0020)	ND (0.0015)	ND (0.0014)	ND (0.0026)	ND (0.0026)	0.0027 J	ND (0.0020)
Methyl tertiary butyl ether	*8,500*	*9,800*	96	ND (0.00059)	ND (0.00057)	ND (0.00062)	ND (0.00029)	ND (0.037)	ND (0.039)	ND (0.00086)	ND (0.00071)	ND (0.00052)	ND (0.00051)	ND (0.00094)	ND (0.00094)	ND (0.00075)	ND (0.00070)
Benzene	*280*	*330*	0.5	ND (0.00059)	ND (0.00057)	ND (0.00062)	ND (0.00029)	ND (0.037)	ND (0.039)	ND (0.00086)	0.0013 J	ND (0.00052)	ND (0.00051)	0.0045 J	ND (0.00094)	0.011	0.0014 J
Napthalene	*66*	*77*	25	ND (0.0024)	ND (0.0023)	ND (0.0025)	ND (0.120)	ND (0.150)	ND (0.160)	ND (0.0034)	ND (0.0029)	ND (0.0021)	ND (0.0020)	ND (0.0038)	ND (0.0038)	ND (0.0030)	ND (0.0028)
1,2,4-Trimethylbenzene	*4,700*	*5,400*	300	ND (0.00059)	ND (0.00057)	ND (0.0062)	ND (0.029)	ND (0.037)	ND (0.039)	ND (0.00086)	ND (0.00071)	ND (0.00052)	ND (0.00051)	ND (0.00094)	ND (0.00094)	ND (0.00075)	0.0012 J
Isopropylbenzene	*10,000*	*10,000*	2,500	ND (0.00047)	ND (0.00046)	ND (0.00049)	ND (0.023)	ND (0.030)	ND (0.031)	ND (0.00068)	ND (0.00057)	ND (0.00042)	ND (0.00041)	ND (0.00076)	ND (0.00075)	ND (000060)	ND (0.00056)
1,2,-Dibromoethane	*3.7*	*4.2*	0.005	ND (0.00047)	ND (0.00046)	ND (0.00049)	ND (0.023)	ND (0.030)	ND (0.031)	ND (0.00068)	ND (0.00057)	ND (0.00042)	ND (0.00041)	ND (0.00076)	ND (0.00075)	ND (0.00060)	ND (0.00056)
Anthracene	*190,000*	*190,000*	350	ND (0.0038)	ND (0.0039)	ND (0.0038)	ND (0.0037)	ND (0.0045)	ND (0.0047)	0.011 J	ND (0.0046)	0.014 J	0.0047 J	0.022	ND (0.0051)	0.018 J	0.0087 J
Benzo(a)anthracene	*130*	*190,000*	340	ND (0.0038)	ND (0.0039)	ND (0.0038)	ND (0.0037)	ND (0.0045)	ND (0.0047)	0.0058 J	0.0071 J	0.040	0.016 J	0.026	0.017 J	ND (0.0045)	0.0085 J
Benzo(a)pyrene	*91*	*190,000*	46	ND (0.0038)	ND (0.0039)	ND (0.0038)	ND (0.0037)	ND (0.0045)	ND (0.0047)	0.0056 J	0.0086 J	0.033	0.016 J	0.016 J	0.017 J	0.0045 J	0.013 J
Benzo(b)fluoranthene	*76*	*190,000*	170	ND (0.0038)	ND (0.0039)	ND (0.0038)	ND (0.0037)	ND (0.0045)	ND (0.0047)	0.0079 J	0.0089 J	0.049	0.022	0.036	0.018 J	0.0053 J	0.021 J
Benzo(g,h,i)perylene	*190,000*	*190,000*	180	ND (0.0038)	ND (0.0039)	ND (0.0038)	ND (0.0037)	ND (0.0045)	ND (0.0047)	0.0083 J	0.0085 J	0.028	0.016 J	0.019 J	0.0086 J	0.0089 J	0.013 J
Chrysene	*760*	*190,000*	230	ND (0.0038)	ND (0.0039)	ND (0.0038)	ND (0.0037)	ND (0.0045)	ND (0.0047)	0.0075 J	0.0081 J	0.046	0.027	0.120	35	0.0053 J	0.019 J
Fluorene	*130,000*	*190,000*	3,800	ND (0.0038)	ND (0.0039)	ND (0.0038)	ND (0.0037)	ND (0.0045)	ND (0.0047)	ND (0.0047)	ND (0.0046)	0.0062 J	ND (0.0039)	0.016 J	ND (0.0051)	ND (0.0045)	0.03
Phenanthrene	*190,000*	*190,000*	10,000	ND (0.0045)	ND (0.0047)	ND (0.0046)	ND (0.0045)	ND (0.0055)	0.026	0.0060 J	0.066	0.055	0.120	0.017 J	0.023	0.064	
Pyrene	*96,000*	*190,000*	2,200	ND (0.0038)	ND (0.0039)	ND (0.0038)	ND (0.0037)	ND (0.0045)	ND (0.0047)	0.0079 J	ND (0.0046)	0.070	0.022	0.041	0.022 J	ND (0.0045)	0.03
Lead	*1,000*	*190,000*	450	15	12	17	9.1	19	16	250	*1,200*	13	40	21	24	100	29

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ND - analyte not detected at laboratory method detection limit indicated
Red Shaded Value - exceeds DC MSC
Blue Shaded Value - exceeds S to G MSC

Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	2045-P3 8/10/2021 3.0 410-50879-7	2045-P4 8/13/2021 3.0 410-51318-8	2045-P5 8/13/2021 3.0 410-51318-9	2045-Center 9/23/2021 5.0 410-56522-3	4847-P1 8/5/2021 3.0 410-50151-4	4847-P2 8/5/2021 3.0 410-50151-3	4847-P3 8/5/2021 3.0 410-50151-5	4847-P4 8/11/2021 3.0 410-50879-22	4847-P5 9/23/2021 3.0 410-56522-1	4847-P6 8/5/2021 3.0 410-50151-1	4847-Center 9/16/2021 5.0 410-55731-7	4847-East 9/16/2021 5.0 410-55731-6	4847-West 9/16/2021 5.0 410-55731-8	7550-P1 9/23/2021 3.0 410-56522-7
Ethylbenzene	*880*	*1,000*	70	ND (0.00082)	0.066 J	0.67	ND (0.00065)	ND (0.00045)	ND (0.00041)	ND (0.00039)	ND (0.00041)	ND (0.00067)	ND (0.00052)	ND (0.027)	ND (0.00040)	ND (0.00051)	0.0052 J
1,2-Dichloroethane	*85*	*98*	0.5	ND (0.0012)	ND (0.082)	ND (0.071)	ND (0.00098)	ND (0.00068)	ND (0.00061)	ND (0.00059)	ND (0.00062)	ND (0.0010)	ND (0.00077)	ND (0.040)	ND (0.00059)	ND (0.00076)	ND (0.0011)
1,3,5-Trimethylbenzene	*4,700*	*5,400*	93	ND (0.0010)	0.230 J	15	ND (0.00082)	ND (0.00057)	ND (0.00051)	ND (0.00049)	ND (0.00052)	ND (0.00084)	ND (0.00064)	ND (0.033)	ND (0.00050)	ND (0.00064)	0.23
Toluene	*10,000*	*10,000*	100	0.0020 J	ND (0.082)	ND (0.071)	ND (0.00098)	ND (0.00068)	ND (0.00061)	ND (0.00059)	ND (0.00062)	ND (0.0010)	ND (0.00077)	ND (0.040)	ND (0.00059)	ND (0.00076)	0.012
Xylenes, Total	*7,900*	*9,100*	1,000	ND (0.0029)	0.370 J	6.8	ND (0.0023)	ND (0.0016)	ND (0.0014)	ND (0.0014)	ND (0.0014)	ND (0.0024)	ND (0.0018)	ND (0.093)	ND (0.0014)	ND (0.0018)	0.099
Methyl tertiary butyl ether	*8,500*	*9,800*	96	ND (0.0010)	ND (0.069)	ND (0.059)	ND (0.00082)	ND (0.00057)	ND (0.00051)	ND (0.00049)	ND (0.00052)	ND (0.00084)	ND (0.00064)	ND (0.033)	ND (0.00050)	ND (0.00064)	ND (0.00092)
Benzene	*280*	*330*	0.5	0.0075 J	ND (0.069)	ND (0.059)	ND (0.00082)	ND (0.00057)	ND (0.00051)	ND (0.00049)	ND (0.00052)	ND (0.00084)	ND (0.00064)	ND (0.033)	ND (0.00050)	ND (0.00064)	0.0029 J
Napthalene	*66*	*77*	25	ND (0.0041)	ND (0.270)	13	ND (0.0033)	ND (0.0023)	ND (0.0020)	ND (0.0020)	ND (0.0021)	ND (0.0034)	ND (0.0026)	ND (0.130)	ND (0.0020)	ND (0.0025)	0.054
1,2,4-Trimethylbenzene	*4,700*	*5,400*	300	ND (0.0010)	0.520 J	1.5	ND (0.00082)	ND (0.00057)	ND (0.00051)	ND (0.00049)	ND (0.00052)	ND (0.00084)	ND (0.00064)	ND (0.033)	ND (0.00050)	ND (0.00064)	0.35
Isopropylbenzene	*10,000*	*10,000*	2,500	ND (0.00082)	ND (0.055)	ND (0.047)	ND (0.00065)	ND (0.00045)	ND (0.00041)	ND (0.0039)	ND (0.00041)	ND (0.00067)	ND (0.00052)	ND (0.027)	ND (0.00040)	ND (0.00051)	0.0051 J
1,2,-Dibromoethane	*3.7*	*4.2*	0.005	ND (0.00082)	ND (0.055)	ND (0.047)	ND (0.00065)	ND (0.00045)	ND (0.00041)	ND (0.00039)	ND (0.00041)	ND (0.00067)	ND (0.00052)	ND (0.027)	ND (0.00040)	ND (0.00051)	0.00089 J
Anthracene	*190,000*	*190,000*	350	ND (0.0046)	ND (0.0061)	ND (0.0057)	ND (0.0049)	ND (0.0037)	ND (0.0041)	ND (0.0037)	ND (0.0044)	ND (0.0048)	ND (0.0045)	ND (0.0039)	ND (0.0039)	ND (0.0037)	0.23
Benzo(a)anthracene	*130*	*190,000*	340	0.0056 J	0.0099 J	0.011 J	ND (0.0049)	0.0048 J	0.0058 J	ND (0.0037)	ND (0.0044)	ND (0.0048)	ND (0.0045)	ND (0.0039)	ND (0.0039)	ND (0.0037)	0.97
Benzo(a)pyrene	*91*	*190,000*	46	0.0075 J	ND (0.0061)	ND (0.0057)	ND (0.0049)	0.0044 J	0.0061 J	ND (0.0037)	ND (0.0044)	ND (0.0048)	ND (0.0045)	ND (0.0039)	ND (0.0039)	ND (0.0037)	1.2
Benzo(b)fluoranthene	*76*	*190,000*	170	0.0057 J	0.0096 J	0.0080 J	ND (0.0049)	0.0054 J	0.0064 J	ND (0.0037)	ND (0.0044)	ND (0.0048)	ND (0.0045)	ND (0.0039)	ND (0.0039)	ND (0.0037)	1.3
Benzo(g,h,i)perylene	*190,000*	*190,000*	180	0.0059 J	0.0083 J	ND (0.0057)	ND (0.0049)	ND (0.0037)	ND (0.0041)	ND (0.0037)	ND (0.0044)	ND (0.0048)	ND (0.0045)	ND (0.0039)	ND (0.0039)	ND (0.0037)	0.84
Chrysene	*760*	*190,000*	230	0.0093 J	0.033	0.037	ND (0.0049)	0.0046 J	0.0064 J	ND (0.0037)	ND (0.0044)	ND (0.0048)	ND (0.0045)	ND (0.0039)	ND (0.0039)	ND (0.0037)	0.92
Fluorene	*130,000*	*190,000*	3,800	ND (0.0046)	ND (0.0061)	0.52	ND (0.0049)	ND (0.0037)	0.0051 J	ND (0.0037)	ND (0.0044)	ND (0.0048)	ND (0.0045)	ND (0.0039)	ND (0.0039)	ND (0.0037)	0.093
Phenanthrene	*190,000*	*190,000*	10,000	0.028	ND (0.073)	5	0.0074 J	ND (0.0045)	0.012 J	ND (0.0045)	ND (0.0044)	ND (0.0057)	ND (0.0045)	ND (0.0046)	ND (0.0047)	ND (0.0045)	0.78
Pyrene	*96,000*	*190,000*	2,200	ND (0.0046)	0.41	0.47	ND (0.0049)	0.0068 J	0.014 J	ND (0.0037)	0.0051 J	ND (0.0048)	ND (0.0045)	ND (0.0039)	ND (0.0039)	ND (0.0037)	1.2
Lead	*1,000*	*190,000*	450	14	75	210	6.7	15	15	8.5	3.6	12	2.9	12	17	18	**690**

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ND - analyte not detected at laboratory method detection limit indicated
Red Shaded Value - exceeds DC MSC
Blue Shaded Value - exceeds S to G MSC

Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	7550-P2 9/23/2021 3.0 410-56522-6	7550-P3 9/23/2021 3.0 410-56522-10	7550-P4 9/23/2021 3.0 410-56522-13	7550-P5 9/23/2021 3.0 410-56522-14	7550-P6 9/23/2021 3.0 410-56522-9	7550-P7 9/23/2021 3.0 410-56522-8	7550-Center 9/23/2021 5.0 410-56522-5	7550-North 9/29/2021 2.5 410-57140-1	7550-South 9/29/2021 2.3 410-57140-2	7550-East 9/29/2021 2.0 410-57140-3	7551-P1 8/6/2021 3.0 410-50281-4	7551-P2 8/6/2021 3.0 410-50281-6	7551-P3 8/6/2021 3.0 410-50281-9	7551-P4 8/6/2021 3.0 410-50503-2
Ethylbenzene	*880*	*1,000*	70	ND (0.00056)	ND (0.00050)	ND (0.032)	ND (0.00069)	ND (0.00077)	ND (0.00060)	ND (0.0073)	ND (0.00034)	ND (0.00044)	ND (0.00034)	ND (0.00060)	ND (0.00054)	ND (0.00050)	ND (0.00037)
1,2-Dichloroethane	*85*	*98*	0.5	ND (0.00084)	ND (0.00075)	ND (0.048)	ND (0.0010)	ND (0.0012)	ND (0.00090)	ND (0.0073)	ND (0.00051)	ND (0.00066)	ND (0.00052)	ND (0.00090)	ND (0.00082)	ND (0.00075)	ND (0.00055)
1,3,5-Trimethylbenzene	*4,700*	*5,400*	93	0.0058 J	ND (0.00082)	0.063 J	0.016	0.0038 J	0.0041 J	0.0023 J	0.00085 J	ND (0.00055)	ND (0.00043)	0.0033 J	ND (0.00068)	0.00071 J	ND (0.00046)
Toluene	*10,000*	*10,000*	100	0.0013 J	0.00077 J	0.059 J	0.0017 J	0.0017 J	0.0022 J	ND (0.0073)	ND (0.00051)	ND (0.00066)	ND (0.00052)	0.0019 J	ND (0.00082)	0.00084 J	ND (0.00055)
Xylenes, Total	*7,900*	*9,100*	1,000	0.0042 J	ND (0.0017)	0.180 J	0.018	ND (0.0027)	0.0037 J	15	ND (0.0012)	ND (0.0015)	ND (0.0012)	0.0031 J	ND (0.0019)	ND (0.0018	ND (0.0013)
Methyl tertiary butyl ether	*8,500*	*9,800*	96	ND (0.00070)	ND (0.00062)	ND (0.040)	ND (0.00086)	ND (0.00096)	ND (0.00075)	ND (0.0073)	ND (0.00042)	ND (0.00055)	ND (0.00043)	ND (0.00075)	ND (0.00068)	ND (0.00063)	ND (0.00046)
Benzene	*280*	*330*	0.5	0.0011 J	0.00074 J	ND (0.040)	0.0025 J	0.00098 J	0.0019 J	ND (0.0073)	ND (0.00042)	ND (0.00055)	ND (0.00043)	0.0011 J	ND (0.00068)	0.00085 J	ND (0.00046)
Napthalene	*66*	*77*	25	ND (0.0028)	ND (0.0025)	0.260 J	0.0080 J	0.0062 J	ND (0.0030)	ND (0.0073)	ND (0.0017)	ND (0.0022)	ND (0.0017)	ND (0.003)	ND (0.0027)	ND (0.0025	ND (0.0018)
1,2,4-Trimethylbenzene	*4,700*	*5,400*	300	0.0048 J	ND (0.00062)	0.087 J	0.009	0.0043 J	0.0039 J	0.0018 J	0.0010 J	ND (0.00055)	ND (0.00043)	0.0058 J	ND (0.00068)	0.00077 J	ND (0.00046)
Isopropylbenzene	*10,000*	*10,000*	2,500	ND (0.00056)	ND (0.00050)	ND (0.032)	ND (0.00069)	ND (0.00077)	ND (0.00060)	ND (0.0073)	ND (0.00034)	ND (0.00044)	ND (0.00034)	ND (0.00060)	ND (0.00054)	ND (0.0005)	ND (0.00037)
1,2,-Dibromoethane	*3.7*	*4.2*	0.005	0.00056	ND (0.00050)	ND (0.032)	ND (0.00069)	ND (0.00077)	ND (0.00060)	ND (0.0073)	ND (0.00034)	ND (0.00044)	ND (0.00034)	ND (0.00060)	ND (0.00054)	ND (0.0005)	ND (0.00037)
Anthracene	*190,000*	*190,000*	350	0.4	0.4	3.4	4.6	0.23	0.032	0.084	ND (0.0036)	ND (0.0038)	ND (0.0038)	0.099	2.90	0.065	0.034
Benzo(a)anthracene	*130*	*190,000*	340	1.7	1.6	8.9	9.4	0.68	0.11	0.19	ND (0.0036)	0.0038 J	0.0069 J	0.330	4.30	0.220	0.120
Benzo(a)pyrene	*91*	*190,000*	46	1.6	1.6	7.3	9.1	0.48	0.12	0.2	ND (0.0036)	0.0057 J	0.0088 J	0.260	3.20	0.200	0.110
Benzo(b)fluoranthene	*76*	*190,000*	170	2.1	2	9.7	12	0.68	0.14	0.24	ND (0.0036)	0.0063 J	0.0010 J	0.370	3.50	0.230	0.120
Benzo(g,h,i)perylene	*190,000*	*190,000*	180	1.1	1.1	5	6.6	0.3	0.098	0.16	ND (0.0036)	0.0055 J	0.0072 J	0.200	1.80	0.140	0.064
Chrysene	*760*	*190,000*	230	1.6	1.6	8.2	9.9	0.65	0.11	0.23	ND (0.0036)	0.0041 J	0.0079 J	0.290	3.80	0.210	0.110
Fluorene	*130,000*	*190,000*	3,800	0.13	0.19	1.8	1.9	0.054	0.015 J	0.054	ND (0.0036)	ND (0.0038)	ND (0.0038)	0.031 J	2.20	0.032	0.014 J
Phenanthrene	*190,000*	*190,000*	10,000	1.3	1.2	15	16	0.79	0.17	0.32	ND (0.0043)	ND (0.0046)	0.0066 J	0.450	12.0	0.260	0.130
Pyrene	*96,000*	*190,000*	2,200	2.5	2.6	16	18	1.5	0.19	0.41	ND (0.0036)	0.0051 J	0.012 J	0.710	7.80	0.340	0.190
Lead	*1,000*	*190,000*	450	170	48	150	120	87	85	88	1.6	5.6	3.2	42	37	44	29

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S to G MSC - Non-Residential Soil to Groundwater MSC
All concentrations in micrograms per kilogram
J - Value estimated by the laboratory
ND - analyte not detected at laboratory method detection limit indicated
Red Shaded Value - exceeds DC MSC
Blue Shaded Value - exceeds S to G MSC

Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	7551-P5 8/6/2021 3.0 410-50281-2	7551-P6 8/6/2021 3.0 410-50281-18	7551-P7 8/6/2021 3.0 410-50281-16	7551-Center 9/23/2021 5.0 410-56522-15	7551-North 9/23/2021 5.0 410-57140-4	7551-East 9/23/2021 5.0 410-57140-5	7551-South 9/23/2021 5.0 410-57140-7	DUP-9 9/23/2021 410-56522-16	UNK-ST-S 8/6/2021 3.0 410-50503-6	UNK-ST-N 8/6/2021 3.0 410-50503-7	UNK-ST-W 9/23/2021 3.0 410-56522-11	UNK-ST-E 9/23/2021 3.0 410-56522-12	Pipe 1 8/4/2021 2.0 410-50151-17	Pipe 2 8/4/2021 2.0 410-50151-19
Ethylbenzene	*880*	*1,000*	70	ND (0.00044)	4.10	0.042 J	ND (0.00072)	ND (0.00073)	ND (0.046)	ND (0.00043)	ND (0.00066)	0.00085 J	0.310 J	ND (0.00067)	0.0011 J	ND (0.00044)	ND (0.00018)
1,2-Dichloroethane	*85*	*98*	0.5	ND (0.00066)	ND (0.055)	ND (0.041)	ND (0.0011)	ND (0.0011)	ND (0.070)	ND (0.00065)	ND (0.00098)	ND (0.00094)	ND (0.051)	ND (0.0010)	ND (0.00070)	ND (0.00066)	ND (0.00028)
1,3,5-Trimethylbenzene	*4,700*	*5,400*	93	ND (0.00055)	15	0.180 J	ND (0.00090)	0.0017 J	0.081 J	ND (0.00054)	ND (0.00082)	0.0066 J	1.10	0.0032 J	0.0069	ND (0.00055)	ND (0.00023)
Toluene	*10,000*	*10,000*	100	ND (0.00066)	8.40	0.220 J	ND (0.0011)	0.0023 J	ND (0.070)	ND (0.00065)	0.0011 J	0.0028 J	0.740	0.0021 J	0.0057 J	ND (0.00066)	ND (0.00028)
Xylenes, Total	*7,900*	*9,100*	1,000	ND (0.0015)	31	0.300 J	ND (0.0025)	ND (0.0026)	ND (0.160)	ND (0.0015)	ND (0.0023)	0.0072 J	2.40	0.0030 J	0.011 J	ND (0.0015)	ND (0.00064)
Methyl tertiary butyl ether	*8,500*	*9,800*	96	ND (0.00055)	ND (0.046)	ND (0.034)	0.029	0.0065 J	0.240 J	ND (0.00054)	0.023	0.0018 J	ND (0.043)	ND (0.00084)	ND (0.00058)	ND (0.00055)	ND (0.00023)
Benzene	*280*	*330*	0.5	ND (0.00055)	0.72	ND (0.034)	ND (0.00090)	ND (0.00091)	ND (0.058)	ND (0.00054)	0.0012 J	0.0018 J	0.560	0.0015 J	0.0041 J	ND (0.00055)	ND (0.00023)
Napthalene	*66*	*77*	25	ND (0.0022)	1.10	ND (0.140)	ND (0.0036)	ND (0.0037)	ND (0.230)	ND (0.0022)	ND (0.0033)	0.0033 J	3.40	ND (0.0034)	0.009	ND (0.0022)	ND (0.00092)
1,2,4-Trimethylbenzene	*4,700*	*5,400*	300	ND (0.00055)	51	0.420	ND (0.00090)	ND (0.00091)	0.170 J	ND (0.00054)	ND (0.00082)	0.012	2.80	0.0023 J	0.0049 J	ND (0.00055)	ND (0.00023)
Isopropylbenzene	*10,000*	*10,000*	2,500	ND (0.00044)	2.0	ND (0.027)	ND (0.00072)	ND (0.00073)	ND (0.046)	ND (0.00043)	ND (0.00066)	ND (0.00063	0.120 J	ND (0.00067)	ND (0.00047)	ND (0.00044)	ND (0.00018)
1,2,-Dibromoethane	*3.7*	*4.2*	0.005	ND (0.00044)	ND (0.037)	ND (0.027)	ND (0.00072)	ND (0.00073)	ND (0.046)	ND (0.00043)	ND (0.00066)	ND (0.00063)	ND (0.034)	ND (0.00067)	ND (0.00047)	ND (0.00044)	ND (0.00018)
Anthracene	*190,000*	*190,000*	350	ND (0.0036)	0.021 J	0.018 J	0.025 J	0.021 J	0.63	0.059	0.022 J	0.024 J	11	0.21	0.059	ND (0.00037)	0.030
Benzo(a)anthracene	*130*	*190,000*	340	0.008 J	0.026	0.026	0.037	ND (0.0057)	0.5	0.19	0.054	0.025 J	8.70	1	0.25	ND (0.00037)	0.250
Benzo(a)pyrene	*91*	*190,000*	46	0.011 J	0.017 J	0.039	0.06	ND (0.0057)	0.27	0.16	0.058	0.015 J	5.30	0.77	0.22	ND (0.00037)	0.220
Benzo(b)fluoranthene	*76*	*190,000*	170	0.015 J	0.029	0.048	0.076	ND (0.0057)	0.43	0.19	0.069	0.023 J	6.80	1.1	0.31	ND (0.00037)	0.370
Benzo(g,h,i)perylene	*190,000*	*190,000*	180	0.0098 J	0.043	0.095	0.06	ND (0.0057)	0.18	0.11	0.062	ND (0.0052)	2.70	0.5	0.18	ND (0.00037)	0.180
Chrysene	*760*	*190,000*	230	0.011 J	0.063	0.034	0.054	ND (0.0057)	0.53	0.16	0.068	0.022 J	8.00	1.1	0.25	ND (0.00037)	0.300
Fluorene	*130,000*	*190,000*	3,800	ND (0.0036)	0.031	ND (0.004)	0.014 J	ND (0.0057)	0.78	0.017 J	0.0091 J	ND (0.0052)	3.80	0.054	0.028	ND (0.00037)	0.012 J
Phenanthrene	*190,000*	*190,000*	10,000	0.0081 J	0.074	0.035	0.1	0.0082 J	4	0.19	0.091	0.200	29	0.63	0.22	ND (0.00045)	0.097
Pyrene	*96,000*	*190,000*	2,200	0.016 J	0.036	0.044	0.081	ND (0.0057)	1.8	0.32	0.099	0.098	15	2.5	0.41	ND (0.00037)	0.410
Lead	*1,000*	*190,000*	450	25	21	18	47	13	36	32	42	39	65	120	49	13	25

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ND - analyte not detected at laboratory method detection limit indicated
Red Shaded Value - exceeds DC MSC
Blue Shaded Value - exceeds S to G MSC

Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	Pipe 3 8/4/2021 2.0 410-50151-20	Pipe 4 8/11/2021 2.0 410-51060-5	Pipe 5 8/4/2021 2.0 410-50151-21	Pipe 6 8/4/2021 2.0 410-50151-24	Pipe 7 8/4/2021 2.0 410-50151-22	Pipe 8 8/4/2021 2.0 410-50151-23	Pipe 9 8/4/2021 2.0 410-50151-26	Pipe 10 8/4/2021 2.0 410-50151-25	Pipe 11 8/4/2021 2.0 410-50151-10	Pipe 12 8/4/2021 2.0 410-50151-27	Pipe 13 8/4/2021 2.0 410-50151-28	Pipe 14 8/4/2021 2.0 410-50151-12	Pipe 15 8/5/2021 2.0 410-50151-2	Pipe 16 8/4/2021 2.0 410-50151-30
Ethylbenzene	*880*	*1,000*	70	ND (0.00046)	ND (0.00043)	ND (0.026)	ND (0.00047)	20	44	5.60	4.60	ND (0.00044)	0.320 J	2.30	ND (0.00051)	ND (0.00043)	ND (0.00046)
1,2-Dichloroethane	*85*	*98*	0.5	ND (0.00069)	ND (0.00065)	ND (0.039)	ND (0.00071)	ND (0.041)	ND (0.040)	ND (0.035)	ND (0.039)	ND (0.00067)	ND (0.044)	ND (0.037)	ND (0.00077)	ND (0.00064)	ND (0.00069)
1,3,5-Trimethylbenzene	*4,700*	*5,400*	93	ND (0.00058)	ND (0.00054)	ND (0.033)	ND (0.00059)	3.10	9.40	0.084 J	0.069 J	ND (0.00055)	1.10	ND (0.031)	0.0017 J	ND (0.00053)	ND (0.00057)
Toluene	*10,000*	*10,000*	100	ND (0.00069)	ND (0.00065)	ND (0.039)	ND (0.00071)	0.099 J	0.097 J	ND (0.035)	0.043 J	ND (0.00067)	ND (0.044)	ND (0.037)	ND (0.00077)	ND (0.00064)	ND (0.00069)
Xylenes, Total	*7,900*	*9,100*	1,000	ND (0.0016)	ND (0.0015)	ND (0.091)	ND (0.0017)	21	23	0.360 J	0.140 J	ND (0.0016)	0.940	ND (0.087)	ND (0.0018)	ND (0.0015)	ND (0.0016)
Methyl tertiary butyl ether	*8,500*	*9,800*	96	ND (0.00058)	ND (0.00054)	ND (0.033)	ND (0.00059)	ND (0.034)	ND (0.034)	ND (0.029)	ND (0.032)	ND (0.00055)	ND (0.036)	ND (0.031)	ND (0.00064)	ND (0.00053)	ND (0.00057)
Benzene	*280*	*330*	0.5	ND (0.00058)	ND (0.00054)	ND (0.033)	ND (0.00059)	0.058 J	0.037 J	ND (0.029)	ND (0.032)	ND (0.00055)	ND (0.036)	ND (0.031)	ND (0.00064)	ND (0.00053)	ND (0.00057)
Napthalene	*66*	*77*	25	ND (0.0023)	ND (0.0022)	ND (0.130)	ND (0.0024)	11	11	2.50	0.230 J	ND (0.0022)	1.20	2.90	ND (0.0026)	ND (0.0021)	ND (0.0023)
1,2,4-Trimethylbenzene	*4,700*	*5,400*	300	ND (0.00058)	ND (0.00054)	ND (0.033)	ND (0.00059)	150	150	0.260 J	0.810	ND (0.00055)	2.70	0.090 J	0.0025 J	ND (0.00053)	ND (0.00057)
Isopropylbenzene	*10,000*	*10,000*	2,500	ND (0.00046)	ND (0.00043)	ND (0.026)	ND (0.00047)	7.3	6.3	2.10	4.30	ND (0.00044)	0.260 J	3.60	0.00059 J	ND (0.00043)	ND (0.00046)
1,2,-Dibromoethane	*3.7*	*4.2*	0.005	ND (0.00046)	ND (0.00043)	ND (0.026)	ND (0.00047)	ND (0.027)	ND (0.027)	ND (0.023)	ND (0.026)	ND (0.00044)	ND (0.029)	ND (0.025)	ND (0.00051)	ND (0.00043)	ND (0.00046)
Anthracene	*190,000*	*190,000*	350	ND (0.0043)	ND (0.0036)	ND (0.037)	ND (0.0039)	ND (0.0039)	0.450	0.230	0.360	ND (0.0038)	0.220	0.190	ND (0.0039)	ND (0.0039)	ND (0.004)
Benzo(a)anthracene	*130*	*190,000*	340	ND (0.0043)	ND (0.0036)	ND (0.037)	0.0089 J	0.0083 J	0.0099	0.014 J	0.0082 J	ND (0.0038)	0.0089 J	0.0062 J	ND (0.0039)	0.0064 J	ND (0.004)
Benzo(a)pyrene	*91*	*190,000*	46	ND (0.0043)	ND (0.0036)	ND (0.037)	0.011 J	ND (0.0039)	0.0042	0.012 J	0.0054 J	ND (0.0038)	0.011 J	0.0037 J	ND (0.0039)	0.0044 J	0.0045 J
Benzo(b)fluoranthene	*76*	*190,000*	170	ND (0.0043)	ND (0.0036)	ND (0.037)	0.014 J	ND (0.0039)	0.0041	0.014 J	0.0048 J	ND (0.0038)	0.017 J	ND (0.0037)	ND (0.0039)	0.0067 J	ND (0.004)
Benzo(g,h,i)perylene	*190,000*	*190,000*	180	ND (0.0043)	ND (0.0036)	ND (0.037)	0.0084 J	ND (0.0039)	ND (0.0038)	0.011 J	0.0045 J	ND (0.0038)	0.011 J	0.0055 J	ND (0.0039)	0.0043 J	ND (0.004)
Chrysene	*760*	*190,000*	230	0.0056 J	ND (0.0036)	ND (0.037)	0.011 J	0.013 J	0.016	0.019	0.015 J	ND (0.0038)	0.017 J	0.011 J	ND (0.0039)	0.0045 J	ND (0.004)
Fluorene	*130,000*	*190,000*	3,800	ND (0.0043)	ND (0.0036)	ND (0.037)	ND (0.0039)	1.10	1.50	0.870	1.70	ND (0.0038)	0.540	0.780	ND (0.0039)	ND (0.0039)	ND (0.004)
Phenanthrene	*190,000*	*190,000*	10,000	ND (0.0052)	ND (0.0044)	ND (0.044)	0.016 J	1.90	3.40	1.40	2.50	ND (0.0045)	0.410	1.30	ND (0.0047)	ND (0.0046)	ND (0.0048)
Pyrene	*96,000*	*190,000*	2,200	0.051	0.0041 J	ND (0.037)	0.017 J	0.200	0.310	0.140	0.230	ND (0.0038)	0.330	0.180	0.0095 J	0.0092 J	ND (0.004)
Lead	*1,000*	*190,000*	450	19	14	11	14	9.3	13	15	32	13	13	12	8.9	11	4.0

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Red Shaded Value - exceeds DC MSC
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Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	Pipe 17 8/4/2021 2.0 410-50151-29	Pipe 18 8/10/2021 2.0 410-50672-12	Pipe 19 8/10/2021 2.0 410-50672-10	Pipe 20 8/10/2021 2.0 410-50672-17	Pipe 21 8/10/2021 2.0 410-50672-18	Pipe 22 8/10/2021 2.0 410-50672-19	Pipe 23 8/10/2021 2.0 410-50672-13	Pipe 24 8/10/2021 2.0 410-50672-14	Pipe 25 8/10/2021 2.0 410-50672-15	Pipe 26 8/11/2021 2.0 410-50879-21	Pipe 27 8/11/2021 2.0 410-51060-1	Pipe 28 8/11/2021 2.0 410-50879-24	Pipe 29 8/11/2021 2.0 410-51060-2	DUP-7 8/11/2021 410-51060-3
Ethylbenzene	*880*	*1,000*	70	ND (0.021)	ND (0.00081)	ND (0.00071)	ND (0.00075)	ND (0.00071)	ND (0.039)	ND (0.00079)	ND (0.00068)	ND (0.00080)	ND (0.00063)	ND (0.061)	ND (0.00074)	1.0	1.6
1,2-Dichloroethane	*85*	*98*	0.5	ND (0.032)	ND (0.0012)	0.0027 J	ND (0.0011)	ND (0.0011)	ND (0.058)	0.0030 J	0.0031 J	ND (0.0012)	ND (0.00095)	ND (0.092)	ND (0.0011)	0.095 J	ND (0.080)
1,3,5-Trimethylbenzene	*4,700*	*5,400*	93	ND (0.027)	ND (0.0010)	0.0040 J	ND (0.00093)	ND (0.00089)	0.051 J	ND (0.00099)	0.0019 J	0.0016 J	ND (0.00079)	ND (0.077)	ND (0.00093)	18	34
Toluene	*10,000*	*10,000*	100	ND (0.032)	0.0013 J	0.031	0.0040 J	ND (0.0011)	0.061 J	0.025	0.020	0.140	ND (0.0095)	ND (0.092)	0.0028 J	4.1	0.180 J
Xylenes, Total	*7,900*	*9,100*	1,000	ND (0.075)	ND (0.0028)	0.028	ND (0.0026)	ND (0.0025)	0.170 J	0.0095 J	0.013 J	0.024	ND (0.0022)	ND (0.210)	ND (0.0026)	10	23
Methyl tertiary butyl ether	*8,500*	*9,800*	96	ND (0.027)	ND (0.0010)	ND (0.00089)	ND (0.00093)	ND (0.00089)	ND (0.048)	ND (0.00099)	ND (0.00085)	0.0022 J	ND (0.00079)	ND (0.077)	ND (0.00093)	ND (0.059)	ND (0.067)
Benzene	*280*	*330*	0.5	ND (0.027)	0.0028 J	0.027	0.0037 J	ND (0.00089)	ND (0.048)	0.014	0.0083 J	0.032	ND (0.00079)	ND (0.077)	0.0014 J	**0.66**	ND (0.067)
Napthalene	*66*	*77*	25	ND (0.110)	ND (0.0040)	ND (0.0036)	ND (0.0037)	ND (0.0036)	ND (0.190)	ND (0.0039)	ND (0.0034)	ND (0.0040)	ND (0.0032)	ND (0.310)	ND (0.0037)	4.8	3.1
1,2,4-Trimethylbenzene	*4,700*	*5,400*	300	0.027 J	ND (0.0010)	0.0053 J	ND (0.00093)	ND (0.00089)	0.099 J	0.0014 J	0.0033 J	0.0037 J	ND (0.00079)	ND (0.077)	ND (0.00093)	10	100
Isopropylbenzene	*10,000*	*10,000*	2,500	ND (0.021)	ND (0.00081)	ND (0.00071)	ND (0.00075)	ND (0.00071)	ND (0.039)	ND (0.00079)	ND (0.00068)	ND (0.00080)	ND (0.00063)	ND (0.061)	ND (0.00074)	0.240 J	2.4
1,2,-Dibromoethane	*3.7*	*4.2*	0.005	ND (0.021)	ND (0.00081)	ND (0.00071)	ND (0.00075)	ND (0.0071)	ND (0.039)	ND (0.00079)	ND (0.00068)	ND (0.00080)	ND (0.00063)	ND (0.061)	ND (0.00074)	ND (0.047)	ND (0.053)
Anthracene	*190,000*	*190,000*	350	0.011 J	ND (0.0045)	0.010 J	ND (0.0044)	ND (0.0047)	0.022	0.0048 J	0.0099 J	ND (0.0048)	0.017 J	ND (0.0045)	ND (0.0045)	0.66	0.69
Benzo(a)anthracene	*130*	*190,000*	340	0.016 J	ND (0.0045)	0.0051 J	0.0091 J	ND (0.0047)	0.035	0.0090 J	0.0053 J	ND (0.0048)	0.012 J	ND (0.0045)	ND (0.0045)	0.021 J	0.022 J
Benzo(a)pyrene	*91*	*190,000*	46	0.015 J	ND (0.0045)	0.0049 J	0.0057 J	ND (0.0047)	0.033	0.0070 J	ND (0.0046)	ND (0.0048)	0.0089 J	ND (0.0045)	ND (0.0045)	0.011 J	0.010 J
Benzo(b)fluoranthene	*76*	*190,000*	170	0.023	0.0057 J	0.0063 J	0.014 J	ND (0.0047)	0.041	0.029	ND (0.0046)	ND (0.0048)	0.013 J	ND (0.0045)	ND (0.0045)	0.020 J	0.022 J
Benzo(g,h,i)perylene	*190,000*	*190,000*	180	0.014 J	0.0045 J	0.0073 J	0.0071 J	ND (0.0047)	0.038	0.020 J	ND (0.0046)	0.0084 J	0.012 J	ND (0.0045)	ND (0.0045)	0.017 J	0.014 J
Chrysene	*760*	*190,000*	230	0.026	0.013 J	0.0052 J	0.011 J	ND (0.0047)	0.052	0.025	0.0085 J	0.021 J	0.013 J	ND (0.0045)	ND (0.0045)	0.087	0.075
Fluorene	*130,000*	*190,000*	3,800	0.011 J	ND (0.0045)	ND (0.0044)	ND (0.0044)	ND (0.0047)	0.011 J	ND (0.0042)	0.014 J	0.021 J	ND (0.0044)	ND (0.0045)	ND (0.0045)	2.5	2.2
Phenanthrene	*190,000*	*190,000*	10,000	0.031	0.029	0.058	0.010 J	0.023 J	0.050	0.024	0.040	0.150	0.026	0.0084 J	ND (0.0054)	3.2	3
Pyrene	*96,000*	*190,000*	2,200	0.022	0.0096 J	0.014 J	0.0098 J	ND (0.0047)	0.042	0.0064 J	0.019 J	0.026	0.020 J	0.0054 J	ND (0.0045)	1.3	1.1
Lead	*1,000*	*190,000*	450	16	120	260	66	28	*1,100*	130	210	60	32	40	14	22	24

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NR DC MSC - Non-Residential Direct Contact Medium Specific Concentration
S to G MSC - Non-Residential Soil to Groundwater MSC
All concentrations in micrograms per kilogram
J - Value estimated by the laboratory
ND - analyte not detected at laboratory method detection limit indicated
Red Shaded Value - exceeds DC MSC
Blue Shaded Value - exceeds S to G MSC

Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	Pipe 30 8/11/2021 2.0 410-51060-4	Pipe 31 8/11/2011 2.0 410-50879-20	Pipe-32 8/10/2021 2.0 410-50879-5	Pipe 33 8/10/2021 2.0 410-50879-6	Pipe 34 8/10/2021 2.0 410-50879-9	Pipe 35 8/10/2021 2.0 410-50879-10	Pipe 36 8/10/2021 2.0 410-50879-11	Pipe 37 8/10/2021 2.0 410-50879-12	Pipe 38 8/10/2021 2.0 410-50879-13	Pipe 39 8/10/2021 2.0 410-50879-14	DUP-06 8/10/2021 410-50879-26	Pipe 40 8/10/2021 2.0 410-50879-15	Pipe 41 8/13/2021 2.0 410-51318-12	Pipe 42 8/13/2021 2.0 410-51318-11
Ethylbenzene	880	1,000	70	ND (0.055)	ND (0.00079)	ND (0.00077)	ND (0.00080)	0.100 J	ND (0.00088)	ND (0.00081)	ND (0.00088)	ND (0.064)	ND (0.00088)	ND (0.048)	0.063 J	ND (0.00065)	0.041
1,2-Dichloroethane	85	98	0.5	ND (0.083)	ND (0.0012)	0.0012 J	0.0018 J	ND (0.120)	0.0014 J	ND (0.0012)	ND (0.0013)	ND (0.096)	ND (0.0013)	ND (0.071)	ND (0.085)	ND (0.00097)	ND (0.0011)
1,3,5-Trimethylbenzene	4,700	5,400	93	0.210 J	ND (0.00099)	0.00098 J	ND (0.0010)	0.610 J	0.0036 J	ND (0.0010)	ND (0.0011)	ND (0.080)	ND (0.011)	ND (0.059)	ND (0.071)	ND (0.00081)	0.00096 J
Toluene	10,000	10,000	100	0.088 J	ND (0.0012)	0.0030 J	0.0066 J	ND (0.120)	0.0048 J	ND (0.0012)	ND (0.0013)	ND (0.096)	ND (0.0013)	ND (0.071)	0.160 J	ND (0.00097)	0.0012 J
Xylenes, Total	7,900	9,100	1,000	ND (0.190)	ND (0.0028)	ND (0.0027)	0.0033 J	0.750 J	0.0035 J	ND (0.0028)	ND (0.0031)	ND (0.220)	ND (0.0031)	ND (0.170)	0.210 J	ND (0.0023)	0.33
Methyl tertiary butyl ether	8,500	9,800	96	ND (0.069)	ND (0.00099)	ND (0.00096)	ND (0.0010)	ND (0.100)	ND (0.0011)	ND (0.0010)	ND (0.0011)	ND (0.080)	ND (0.0011)	ND (0.059)	ND (0.071)	ND (0.00081)	ND (0.00091)
Benzene	280	330	0.5	ND (0.069)	ND (0.00099)	0.0051 J	0.0091 J	ND (0.100)	0.0074 J	0.0018 J	ND (0.0011)	ND (0.080)	ND (0.0011)	ND (0.059)	ND (0.071)	ND (0.00081)	ND (0.00091)
Napthalene	66	77	25	ND (0.280)	ND (0.0040)	ND (0.0038)	ND (0.0040)	ND (0.410)	ND (0.0044)	ND (0.0041)	ND (0.0044)	ND (0.320)	ND (0.0044)	ND (0.240)	ND (0.280)	ND (0.0032)	ND (0.0036)
1,2,4-Trimethylbenzene	4,700	5,400	300	0.330 J	ND (0.00099)	0.0012 J	ND (0.0010)	1.0	0.0058 J	ND (0.0010)	ND (0.0011)	ND (0.080)	ND (0.0011)	ND (0.059)	ND (0.071)	ND (0.00081)	0.0014 J
Isopropylbenzene	10,000	10,000	2,500	ND (0.055)	ND (0.00079)	ND (0.00077)	ND (0.00080)	ND (0.083)	ND (0.00088)	ND (0.00081)	ND (0.00088)	ND (0.064)	ND (0.00086)	ND (0.048)	ND (0.057)	ND (0.00065)	0.0014 J
1,2,-Dibromoethane	3.7	4.2	0.005	ND (0.055)	ND (0.00079)	ND (0.00077)	ND (0.00080)	ND (0.083)	ND (0.00088)	ND (0.00081)	ND (0.00088)	ND (0.064)	ND (0.00086)	ND (0.048)	ND (0.057)	ND (0.00065)	ND (0.00073)
Anthracene	190,000	190,000	350	ND (0.006)	0.014 J	0.014 J	0.051	0.100	0.0090 J	0.0093 J	ND (0.0062)	0.021 J	0.014 J	ND (0.0051)	ND (0.0049)	0.022 J	0.031
Benzo(a)anthracene	130	190,000	340	0.0067 J	ND (0.0063)	ND (0.0047)	0.040	0.012 J	ND (0.0045)	0.0055 J	ND (0.0062)	ND (0.0062)	ND (0.0055)	0.024 J	0.016 J	0.022 J	0.045
Benzo(a)pyrene	91	190,000	46	ND (0.006)	ND (0.0063)	0.0059 J	0.029	0.016 J	0.0061 J	ND (0.0048)	ND (0.0062)	0.015 J	ND (0.0055)	0.014 J	0.0094 J	0.025 J	0.041
Benzo(b)fluoranthene	76	190,000	170	ND (0.006)	ND (0.0063)	0.0057 J	0.089	0.014 J	ND (0.0045)	0.0056 J	ND (0.0062)	0.022 J	ND (0.0055)	0.026	0.016 J	0.046	0.066
Benzo(g,h,i)perylene	190,000	190,000	180	0.0085 J	ND (0.0063)	0.0064 J	0.064	0.130	ND (0.0045)	ND (0.0048)	ND (0.0062)	0.020 J	0.011 J	0.017 J	0.016 J	0.025 J	0.041
Chrysene	760	190,000	230	0.013 J	ND (0.0063)	0.0084 J	0.065	0.017 J	ND (0.0045)	ND (0.0048)	ND (0.0062)	0.024 J	ND (0.0055)	0.039	0.025	0.046	0.08
Fluorene	130,000	190,000	3,800	0.0098 J	ND (0.0063)	0.0079 J	0.012 J	0.026	ND (0.0045)	ND (0.0048)	ND (0.0062)	ND (0.0062)	ND (0.0055)	0.100	0.087	0.0086 J	ND (0.0052)
Phenanthrene	190,000	190,000	10,000	0.034	0.0076 J	0.100	0.084	0.027	0.032	0.025	ND (0.0074)	0.029 J	0.0077 J	0.160	0.150	0.067	0.12
Pyrene	96,000	190,000	2,200	0.011 J	ND (0.0063)	0.0065 J	0.042	0.036	ND (0.0045)	ND (0.0048)	ND (0.0062)	0.033	ND (0.0055)	0.100	0.120	0.063	0.072
Lead	1,000	190,000	450	54	31	95	920	79	17	26	30	170	64	20	28	120	110

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J - Value estimated by the laboratory
ND - analyte not detected at laboratory method detection limit indicated
Red Shaded Value - exceeds DC MSC
Blue Shaded Value - exceeds S to G MSC

Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	Pipe 43 8/13/2021 2.0 410-51318-10	Pipe 44 8/11/2021 2.0 410-51060-6	Pipe 45 8/5/2021 2.0 410-50281-24	Pipe 46 8/5/2021 2.0 410-50281-26	Pipe 47 8/5/2021 2.0 410-50281-25	Pipe 48 8/5/2021 2.0 410-50281-27	Pipe 49 8/5/2021 2.0 410-50281-23	Pipe 50 8/5/2021 2.0 410-50281-22	Pipe 51 8/5/2021 2.0 410-50281-31	Pipe 52 8/5/2021 2.0 410-50281-32	Pipe 53 8/5/2021 2.0 410-50281-11	Pipe 54 8/9/2021 2.0 410-50672-7	Pipe 55 8/5/2021 2.0 410-50281-13	Pipe 56 8/9/2021 2.0 410-50672-6
Ethylbenzene	880	1,000	70	ND (0.00071)	ND (0.061)	ND (0.037)	ND (0.037)	ND (0.041)	0.00065 J	ND (0.00056)	ND (0.00061)	ND (0.00077)	ND (0.00060)	ND (0.00071)	ND (0.00059)	ND (0.048)	ND (0.00071)
1,2-Dichloroethane	85	98	0.5	ND (0.0011)	ND (0.092)	ND (0.056)	ND (0.055)	ND (0.061)	ND (0.00095)	ND (0.00084)	ND (0.00092)	ND (0.0012)	ND (0.00090)	ND (0.0011)	ND (0.00088)	ND (0.072)	ND (0.0011)
1,3,5-Trimethylbenzene	4,700	5,400	93	0.0076 J	0.140 J	ND (0.047)	ND (0.046)	ND (0.051)	ND (0.00079)	ND (0.00070)	ND (0.00077)	ND (0.00097)	ND (0.00075)	ND (0.00089)	ND (0.00073)	ND (0.060)	ND (0.00089)
Toluene	10,000	10,000	100	ND (0.0011)	ND (0.092)	ND (0.056)	ND (0.055)	ND (0.061)	0.0023 J	ND (0.00084)	ND (0.00092)	ND (0.0012)	ND (0.00090)	ND (0.0011)	ND (0.00088)	ND (0.072)	ND (0.0011)
Xylenes, Total	7,900	9,100	1,000	ND (0.0025)	ND (0.210)	ND (0.130)	ND (0.130)	ND (0.140)	0.0035 J	ND (0.0019)	ND (0.0022)	ND (0.0027)	ND (0.0021)	ND (0.0025)	ND (0.0021)	ND (0.170)	ND (0.0025)
Methyl tertiary butyl ether	8,500	9,800	96	ND (0.00089)	ND (0.077)	ND (0.047)	ND (0.046)	ND (0.051)	ND (0.00079)	ND (0.00070)	ND (0.00077)	ND (0.00097)	ND (0.00075)	ND (0.00089)	ND (0.00073)	ND (0.060)	ND (0.00089)
Benzene	280	330	0.5	ND (0.00089)	ND (0.077)	ND (0.047)	ND (0.046)	ND (0.051)	0.00093 J	0.0011 J	ND (0.00077)	0.0015 J	ND (0.00075)	ND (0.00089)	ND (0.00073)	ND (0.060)	ND (0.00089)
Napthalene	66	77	25	ND (0.0035)	ND (0.310)	ND (0.190)	ND (0.180)	ND (0.200)	ND (0.0032)	ND (0.0028)	ND (0.0031)	ND (0.0039)	ND (0.0030)	ND (0.036)	ND (0.0029)	ND (0.240)	ND (0.0035)
1,2,4-Trimethylbenzene	4,700	5,400	300	0.015	0.220 J	0.075 J	ND (0.046)	ND (0.051)	0.00087 J	ND (0.00070)	ND (0.00077)	ND (0.00097)	ND (0.00075)	ND (0.00089)	ND (0.00073)	ND (0.060)	ND (0.00089)
Isopropylbenzene	10,000	10,000	2,500	ND (0.00071)	ND (0.061)	ND (0.037)	ND (0.037)	ND (0.041)	ND (0.00064)	ND (0.00056)	ND (0.00061)	ND (0.00077)	ND (0.00060)	ND (0.00071)	ND (0.00059)	ND (0.048)	ND (0.00071)
1,2,-Dibromoethane	3.7	4.2	0.005	ND (0.00071)	ND (0.061)	ND (0.037)	ND (0.037)	ND (0.041)	ND (0.00064)	ND (0.00056)	ND (0.00061)	ND (0.00077)	ND (0.00060)	ND (0.00071)	ND (0.00059)	ND (0.048)	ND (0.00071)
Anthracene	190,000	190,000	350	0.017 J	0.29	0.022	0.130 J	ND (0.038)	ND (0.0039)	0.013 J	ND (0.0041)	0.080 J	0.018 J	ND (0.045)	0.0052 J	0.110	0.0081 J
Benzo(a)anthracene	130	190,000	340	0.040 J	0.030 J	0.0067 J	0.370 J	ND (0.038)	0.019	0.019 J	0.0098 J	ND (0.021)	0.028	0.170 J	0.0096 J	0.510	0.026
Benzo(a)pyrene	91	190,000	46	0.037 J	0.018 J	0.0067 J	0.380 J	ND (0.038)	0.015 J	0.020	0.0062 J	ND (0.021)	ND (0.0046)	0.220	0.0043 J	0.460	0.027
Benzo(b)fluoranthene	76	190,000	170	0.057	0.033	0.014 J	0.440	ND (0.038)	0.014 J	0.027	0.0099 J	ND (0.021)	0.034	0.230	0.010 J	0.580	0.032
Benzo(g,h,i)perylene	190,000	190,000	180	0.039 J	0.023 J	0.0093 J	0.340 J	0.080 J	0.027	0.022	0.011 J	0.710	ND (0.0046)	0.160 J	ND (0.0043)	0.330	0.023
Chrysene	760	190,000	230	0.051	0.068	0.011 J	0.460	ND (0.038)	0.045	0.025	0.0097 J	ND (0.021)	0.040	0.170 J	0.015 J	0.580	0.028
Fluorene	130,000	190,000	3,800	ND (0.0097)	0.25	ND (0.0039)	ND (0.081)	ND (0.038)	ND (0.0039)	ND (0.0039)	ND (0.0041)	ND (0.021)	ND (0.0046)	ND (0.045)	ND (0.0043)	0.092	ND (0.0040)
Phenanthrene	190,000	190,000	10,000	0.087	0.47	0.032	0.560	ND (0.038)	0.079	0.052	0.010 J	0.270	0.064	0.056 J	0.038	1.10	0.029
Pyrene	96,000	190,000	2,200	0.072	0.71	0.015 J	0.700	ND (0.038)	0.074	0.050	0.013 J	0.100	0.039	0.220	0.041	0.930	0.040
Lead	1,000	190,000	450	60	32	330	600	69	15	78	320	460	110	83	35	750	160

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All concentrations in micrograms per kilogram
J - Value estimated by the laboratory
ND - analyte not detected at laboratory method detection limit indicated
Red Shaded Value - exceeds DC MSC
Blue Shaded Value - exceeds S to G MSC

Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	Pipe 57 8/9/2021 2.0 410-50672-3	Pipe 58 8/9/2021 2.0 410-50672-4	Pipe 59 8/9/2021 2.0 410-50672-5	Pipe 60 8/5/2021 2.0 410-50151-31	Pipe 61 8/5/2021 2.0 410-50151-8	Pipe 62 8/12/2021 2.0 410-51318-2	Pipe 63 8/12/2021 2.0 410-51318-1	Pipe 64 8/12/2021 2.0 410-51060-12	Pipe 65 8/12/2021 2.0 410-51060-14	Pipe 66 8/12/2021 2.0 410-51060-13	Pipe 67 8/9/2021 2.0 410-50672-8	Pipe 68 8/9/2021 2.0 410-50672-2	Pipe 69 8/9/2021 2.0 410-50672-1	Pipe 70 8/9/2021 2.0 410-50503-10
Ethylbenzene	*880*	*1,000*	70	ND (0.00091)	ND (0.00083)	ND (0.00076)	ND (0.00055)	ND (0.00047)	ND (0.046)	ND (0.00080)	ND (0.00077)	ND (0.00064)	ND (0.00070)	ND (0.00063)	ND (0.00059)	ND (0.062)	0.080 J
1,2-Dichloroethane	*85*	*98*	0.5	ND (0.0014)	ND (0.0012)	ND (0.0011)	ND (0.00082)	ND (0.00071)	ND (0.070)	ND (0.0012)	ND (0.0012)	ND (0.00096)	ND (0.0011)	ND (0.00094)	ND (0.00088)	ND (0.093)	ND (0.062)
1,3,5-Trimethylbenzene	*4,700*	*5,400*	93	ND (0.0011)	ND (0.0010)	ND (0.00095)	ND (0.00069)	ND (0.00059)	ND (0.058)	ND (0.0010)	ND (0.00096)	ND (0.00080)	ND (0.00088)	ND (0.00079)	0.0055 J	0.590 J	1.10
Toluene	*10,000*	*10,000*	100	ND (0.0014)	ND (0.0012)	ND (0.0011)	0.0039 J	ND (0.00071)	ND (0.070)	ND (0.0012)	0.0019 J	ND (0.00096)	0.0045 J	0.0019 J	0.0029 J	0.210 J	0.320 J
Xylenes, Total	*7,900*	*9,100*	1,000	ND (0.0032)	ND (0.0029)	ND (0.0027)	0.0038 J	ND (0.0016)	ND (0.160)	ND (0.0028)	ND (0.0027)	ND (0.0022)	ND (0.0025)	ND (0.0022)	0.0064 J	0.350 J	0.590 J
Methyl tertiary butyl ether	*8,500*	*9,800*	96	ND (0.0011)	ND (0.0010)	ND (0.00095)	ND (0.00069)	ND (0.00059)	ND (0.058)	ND (0.0010)	ND (0.00096)	ND (0.00080)	ND (0.00088)	ND (0.00079)	ND (0.00073)	ND (0.077)	ND (0.052)
Benzene	*280*	*330*	0.5	ND (0.0011)	ND (0.0010)	ND (0.00095)	0.0020 J	0.00097 J	ND (0.058)	ND (0.0010)	0.0022 J	0.00084 J	0.0032 J	0.0024 J	0.0017 J	ND (0.077)	ND (0.052)
Napthalene	*66*	*77*	25	ND (0.0045)	ND (0.0041)	ND (0.0038)	0.0050 J	ND (0.0024)	ND (0.230)	ND (0.0040)	ND (0.0039)	ND (0.0032)	ND (0.0035)	ND (0.0031)	ND (0.0029)	ND (0.310)	ND (0.210)
1,2,4-Trimethylbenzene	*4,700*	*5,400*	300	ND (0.0011)	ND (0.0010)	ND (0.00095)	ND (0.00069)	ND (0.00059)	ND (0.058)	ND (0.0010)	ND (0.00096)	ND (0.00080)	ND (0.00088)	ND (0.00079)	0.0054 J	0.650 J	1.50
Isopropylbenzene	*10,000*	*10,000*	2,500	ND (0.00091)	ND (0.00083)	ND (0.00076)	ND (0.00055)	ND (0.00047)	ND (0.046)	ND (0.00080)	ND (0.00077)	ND (0.00064)	ND (0.00070)	ND (0.00063)	ND (0.00059)	ND (0.062)	ND (0.041)
1,2,-Dibromoethane	*3.7*	*4.2*	0.005	ND (0.00091)	ND (0.00083)	ND (0.00076)	ND (0.00055)	ND (0.00047)	ND (0.046)	ND (0.00080)	ND (0.00077)	ND (0.00064)	ND (0.00070)	ND (0.00063)	ND (0.00059)	ND (0.062)	ND (0.041)
Anthracene	*190,000*	*190,000*	350	ND (0.0063)	ND (0.0044)	0.0079 J	0.130	0.170	ND (0.0045)	0.0058 J	ND (0.0048)	0.016 J	0.0054 J	0.018 J	0.120	0.044	ND (0.0053)
Benzo(a)anthracene	*130*	*190,000*	340	ND (0.0063)	0.0089 J	0.0071 J	0.010 J	0.031	ND (0.0045)	0.0084 J	0.015 J	0.025	0.016 J	0.036	0.360	0.150	0.046
Benzo(a)pyrene	*91*	*190,000*	46	ND (0.0063)	0.0057 J	0.0061 J	0.010 J	0.032	ND (0.0045)	0.0082 J	0.015 J	0.025	0.017 J	0.046	0.310	0.054	0.056
Benzo(b)fluoranthene	*76*	*190,000*	170	ND (0.0063)	0.014 J	ND (0.0060)	0.013 J	0.051	ND (0.0045)	0.019 J	0.020 J	0.034	0.025	0.068	0.370	0.095	0.069
Benzo(g,h,i)perylene	*190,000*	*190,000*	180	0.024 J	0.0087 J	0.0091 J	0.0085 J	0.037	ND (0.0045)	0.023	0.011 J	0.021 J	0.017 J	0.058	0.210	0.040	0.058
Chrysene	*760*	*190,000*	230	ND (0.0063)	0.031	ND (0.0060)	0.023	0.042	ND (0.0045)	0.013 J	0.015 J	0.035	0.018 J	0.052	0.350	0.150	0.076
Fluorene	*130,000*	*190,000*	3,800	ND (0.0063)	ND (0.0044)	ND (0.0060)	ND (0.0042)	ND (0.0041)	ND (0.0045)	ND (0.0045)	ND (0.0048)	0.011 J	ND (0.0048)	0.014 J	0.072	0.013 J	0.590
Phenanthrene	*190,000*	*190,000*	10,000	ND (0.0075)	0.053	ND (0.0072)	0.110	0.093	ND (0.0054)	0.019 J	0.016 J	0.074	0.0022 J	0.120	0.460	0.510	0.760
Pyrene	*96,000*	*190,000*	2,200	ND (0.0063)	0.016 J	ND (0.0060)	0.022	0.052	0.039	0.013 J	0.023 J	0.065	0.024	0.063	0.620	0.540	0.470
Lead	*1,000*	*190,000*	450	16	12	25	190	570	29	70	190	44	180	93	240	89	750

PADEP - Pennsylvania Department of Environmetnal Protection
NR DC MSC - Non-Residential Direct Contact Medium Specific Concentration
S to G MSC - Non-Residential Soil to Groundwater MSC
All concentrations in micrograms per kilogram
J - Value estimated by the laboratory
ND - analyte not detected at laboratory method detection limit indicated
Red Shaded Value - exceeds DC MSC
Blue Shaded Value - exceeds S to G MSC

Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	Dup-4 8/9/2021 410-50503-11	Pipe 71 8/9/2021 2.0 410-50503-8	Pipe 72 8/9/2021 2.0 410-50503-9	Pipe 74 8/6/2021 2.0 410-50503-4	Pipe 74 8/10/2021 2.0 410-50672-16	Pipe 75 8/6/2021 2.0 410-50281-3	Pipe 76 8/6/2021 2.0 410-50281-8	Pipe 77 8/6/2021 2.0 410-50281-7	Pipe 78 8/6/2021 2.0 410-50281-14	Pipe 79 8/6/2021 2.0 410-50281-15	Pipe 80 8/6/2021 2.0 410-50281-21	DUP-3 8/6/2021 410-50281-1	Pipe 81 8/6/2021 2.0 410-50281-19	Pipe 82 8/6/2021 2.0 410-50281-17
Ethylbenzene	*880*	*1,000*	70	0.100 J	0.350 J	ND (0.029)	0.061 J	ND (0.00065)	0.044 J	ND (0.00038)	1.40	0.140 J	1.70	0.0038 J	0.0048 J	0.0014 J	0.001 J
1,2-Dichloroethane	*85*	*98*	0.5	ND (0.056)	ND (0.059)	ND (0.044)	ND (0.045)	ND (0.00098)	ND (0.038)	ND (0.00057)	ND (0.044)	ND (0.065)	ND (0.030)	ND (0.00071)	ND (0.00073)	0.0013 J	ND (0.00087)
1,3,5-Trimethylbenzene	*4,700*	*5,400*	93	1.30	0.970	0.088 J	0.066 J	ND (0.00082)	0.100 J	ND (0.00048)	8.10	1.10	0.039 J	0.0014 J	0.0015 J	ND (0.0056)	0.00073 J
Toluene	*10,000*	*10,000*	100	0.450 J	0.170 J	0.230 J	0.280 J	0.0014 J	0.180 J	ND (0.00057)	0.100 J	0.110 J	ND (0.030)	0.011	0.012	0.031	0.0068 J
Xylenes, Total	*7,900*	*9,100*	1,000	0.770 J	1.20	0.330 J	0.280 J	ND (0.0023)	0.240 J	ND (.0013)	3.50	0.470 J	0.110 J	0.012	0.014	0.0073 J	0.0059 J
Methyl tertiary butyl ether	*8,500*	*9,800*	96	ND (0.047)	ND (0.049)	ND (0.037)	ND (0.037)	ND (0.00082)	ND (0.032)	0.0011 J	ND (0.036)	ND (0.055)	ND (0.025)	ND (0.00059)	ND (0.00061)	ND (0.0056)	ND (0.00073)
Benzene	*280*	*330*	0.5	0.068 J	ND (0.049)	0.049 J	0.055 J	0.0011 J	0.039 J	ND (0.00048)	ND (0.036)	ND (0.055)	0.026 J	0.0038 J	0.0043J	0.012	0.0062 J
Napthalene	*66*	*77*	25	ND (0.190)	ND (0.049)	ND (0.150)	0.430	ND (0.0033)	ND (0.130)	ND (0.0019)	2.00	0.290 J	0.820	ND (0.0024)	0.0036 J	ND (0.0022)	ND (0.0029)
1,2,4-Trimethylbenzene	*4,700*	*5,400*	300	2.10	1.90	0.180 J	0.092 J	ND (0.00082)	0.065 J	ND (0.00048)	19.0	2.20	27	0.0057 J	0.0073	0.0011 J	0.0012 J
Isopropylbenzene	*10,000*	*10,000*	2,500	0.041 J	0.580	ND (0.029)	0.670	ND (0.00065)	ND (0.025)	ND (0.00038)	1.80	0.180 J	1.0	ND (0.00047)	0.00054 J	ND (0.00044)	ND (0.00058)
1,2,-Dibromoethane	*3.7*	*4.2*	0.005	ND (0.037)	ND (0.039)	ND (0.029)	ND (0.030)	ND (0.00065)	ND (0.025)	ND (0.00038)	ND (0.029)	ND (0.044)	ND (0.020)	ND (0.00047)	ND (0.0049)	ND (0.00044)	ND (0.00058)
Anthracene	*190,000*	*190,000*	350	ND (0.0048)	ND (0.0053)	0.038	1.50	0.019 J	ND (0.0041)	0.014 J	ND (0.0045)	0.031	0.035	0.033	0.007 J	0.048	0.110
Benzo(a)anthracene	*130*	*190,000*	340	0.069	0.089	0.150	4.60	0.029	0.017 J	0.083	0.190	0.022 J	0.062	0.057	0.019	0.120	0.360
Benzo(a)pyrene	*91*	*190,000*	46	0.047	0.075	0.160	3.80	0.021	0.017 J	0.120	0.270	0.021 J	0.047	0.094	0.022	0.330	0.390
Benzo(b)fluoranthene	*76*	*190,000*	170	0.079	0.092	0.190	4.30	0.039	0.027	0.190	0.200	0.040	0.044	0.100	0.025	0.370	0.510
Benzo(g,h,i)perylene	*190,000*	*190,000*	180	0.054	0.086	0.130	2.60	0.018 J	0.030	0.150	0.270	0.056	0.041	0.110	0.024	0.430	0.390
Chrysene	*760*	*190,000*	230	0.150	0.130	0.150	3.80	0.038	0.018 J	0.140	0.370	0.030	0.080	0.065	0.020	0.130	0.390
Fluorene	*130,000*	*190,000*	3,800	1.20	0.730	0.014 J	0.510	ND (0.0041)	0.015 J	0.0056 J	0.900	ND (0.0055)	0.130	0.021	0.0049 J	0.012 J	0.032
Phenanthrene	*190,000*	*190,000*	10,000	1.90	0.680	0.110	4.50	0.076	ND (0.0049)	0.076	0.870	0.064	0.190	0.110	0.026	0.097	0.450
Pyrene	*96,000*	*190,000*	2,200	0.780	0.970	0.220	6.50	0.057	0.048	0.180	0.560	0.054	0.100	0.120	0.034	0.140	0.570
Lead	*1,000*	*190,000*	450	210	130	160	160	120	190	270	210	94	14	30	26	500	200

PADEP - Pennsylvania Department of Environmetnal Protection
NR DC MSC - Non-Residential Direct Contact Medium Specific Concentration
S to G MSC - Non-Residential Soil to Groundwater MSC
All concentrations in micrograms per kilogram
J - Value estimated by the laboratory
ND - analyte not detected at laboratory method detection limit indicated
Red Shaded Value - exceeds DC MSC
Blue Shaded Value - exceeds S to G MSC

Table 1
AST Closure Confirmation Soil Sample Results
PBF 51st Street Terminal

	PADEP NR DC MSC 0-2'	PADEP NR DC MSC 2-15'	PADEP NR S to G MSC	Pipe 83 8/6/2021 2.0 410-50281-20	Pipe 84 8/6/2021 2.0 410-50503-5	Pipe 85 8/6/2021 2.0 410-50503-1	Pipe 86 8/6/2021 2.0 410-50503-3	Pipe 87 8/6/2021 2.0 410-50281-5
Ethylbenzene	*880*	*1,000*	70	ND (0.00043)	0.00043 J	ND (0.083)	ND (0.032)	0.100 J
1,2-Dichloroethane	*85*	*98*	0.5	ND (0.00065)	ND (0.00056)	ND (0.130)	ND (0.049)	ND (0.04)
1,3,5-Trimethylbenzene	*4,700*	*5,400*	93	ND (0.00054)	0.00078 J	ND (0.0100)	ND (0.041)	ND (0.033)
Toluene	*10,000*	*10,000*	100	0.0055	0.0025 J	ND (0.130)	0.053 J	0.079 J
Xylenes, Total	*7,900*	*9,100*	1,000	0.0028 J	0.0023 J	ND (0.290)	ND (0.110)	0.120 J
Methyl tertiary butyl ether	*8,500*	*9,800*	96	ND (0.00054)	ND (0.00047)	ND (0.100)	ND (0.041)	ND (0.033)
Benzene	*280*	*330*	0.5	0.0038 J	0.0086	ND (0.100)	ND (0.041)	ND (0.033)
Napthalene	*66*	*77*	25	ND (0.0022)	0.0032 J	ND (0.420)	ND (0.160)	ND (0.130)
1,2,4-Trimethylbenzene	*4,700*	*5,400*	300	0.00058 J	0.00077 J	ND (0.100)	ND (0.041)	0.100 J
Isopropylbenzene	*10,000*	*10,000*	2,500	ND (0.00043)	ND (0.00037)	ND (0.083)	0.048 J	ND (0.026)
1,2,-Dibromoethane	*3.7*	*4.2*	0.005	ND (0.00043)	ND (0.00037)	ND (0.083)	ND (0.032)	ND (0.026)
Anthracene	*190,000*	*190,000*	350	0.055	1.50	0.320	3.20	0.250
Benzo(a)anthracene	*130*	*190,000*	340	0.350	3.40	0.590	1.20	0.570
Benzo(a)pyrene	*91*	*190,000*	46	0.330	2.60	0.560	7.90	0.640
Benzo(b)fluoranthene	*76*	*190,000*	170	0.490	3.10	0.750	9.90	0.730
Benzo(g,h,i)perylene	*190,000*	*190,000*	180	0.300	1.60	0.460	4.50	0.590
Chrysene	*760*	*190,000*	230	0.370	2.80	0.650	10	0.510
Fluorene	*130,000*	*190,000*	3,800	0.015 J	0.610	0.490	0.850	0.180
Phenanthrene	*190,000*	*190,000*	10,000	0.190	4.80	0.910	11	0.260
Pyrene	*96,000*	*190,000*	2,200	0.560	5.50	1.20	16	1.10
Lead	*1,000*	*190,000*	450	76	51	180	540	720

PADEP - Pennsylvania Department of Environmetnal Protection
NR DC MSC - Non-Residential Direct Contact Medium Specific Concentration
S to G MSC - Non-Residential Soil to Groundwater MSC
All concentrations in micrograms per kilogram
J - Value estimated by the laboratory
ND - analyte not detected at laboratory method detection limit indicated
Red Shaded Value - exceeds DC MSC
Blue Shaded Value - exceeds S to G MSC

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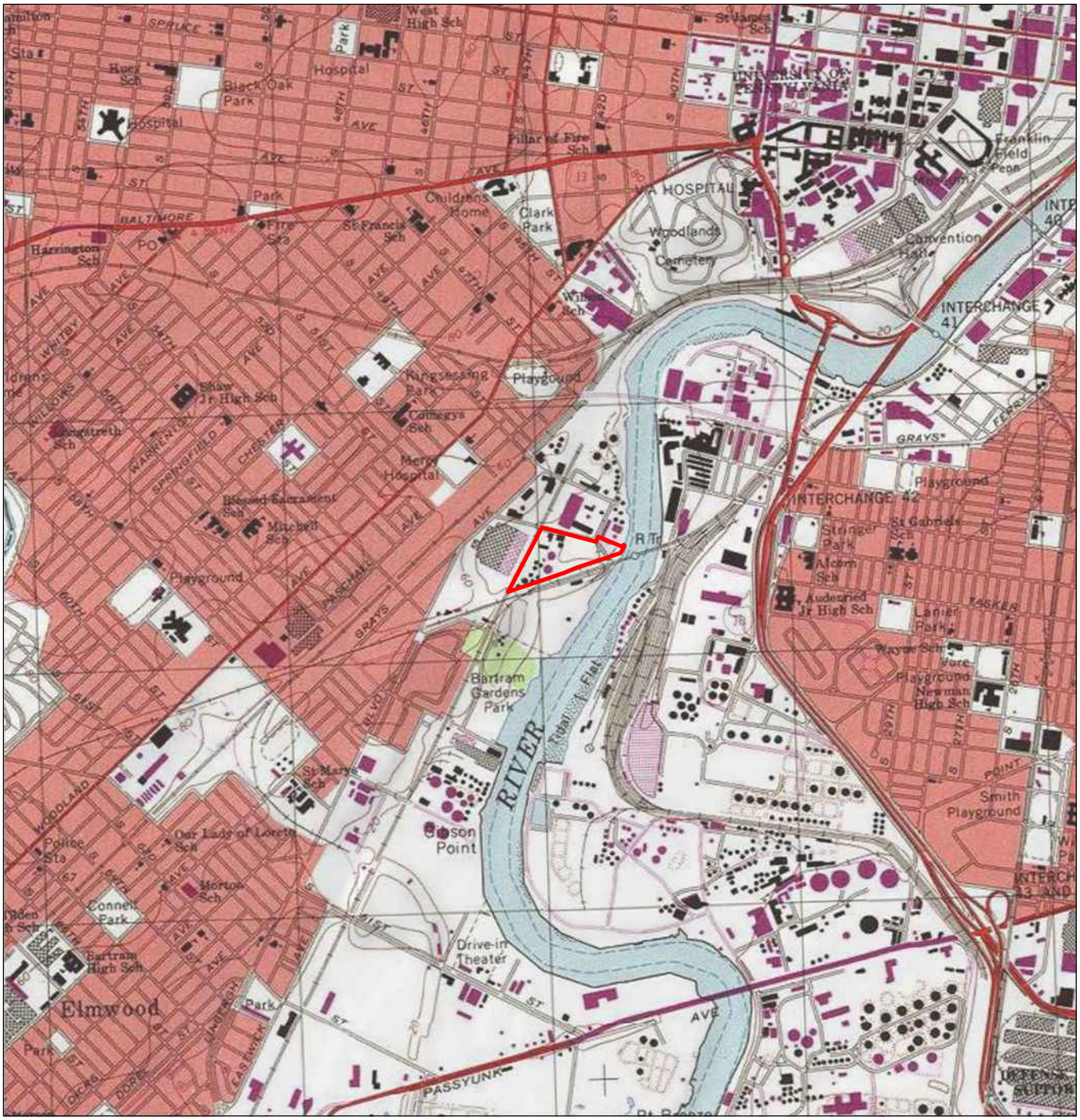

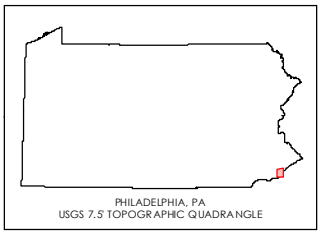

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Approximate Site Boundary

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Stantec

Project Location
51st Street,
Philadelphia, PA

213403111
Prepared by GWC on 3/20/2019 Technical
Review by DH on 06/09/2021
Independent Review by MAS on 06/09/2021

Client/Project
PBF Logistics Products and Terminals LLC

Figure No.
1

Title
Site Location Map

Notes
1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
2. Source: Stantec
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Figure No.
2

Title
Site Map

Client/Project
PBF Logistics Products and Terminals LLC

Project Location
51st Street,
Philadelphia, PA

213403111
Prepared by GWC on 3/20/2019 Technical Review by DH on 06/09/2021
Independent Review by MAS on 06/09/2021

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1:1,800 (At original document size of 11x17)

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Legend

Approximate Site Boundary

Notes
1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
2. Source: Stantec
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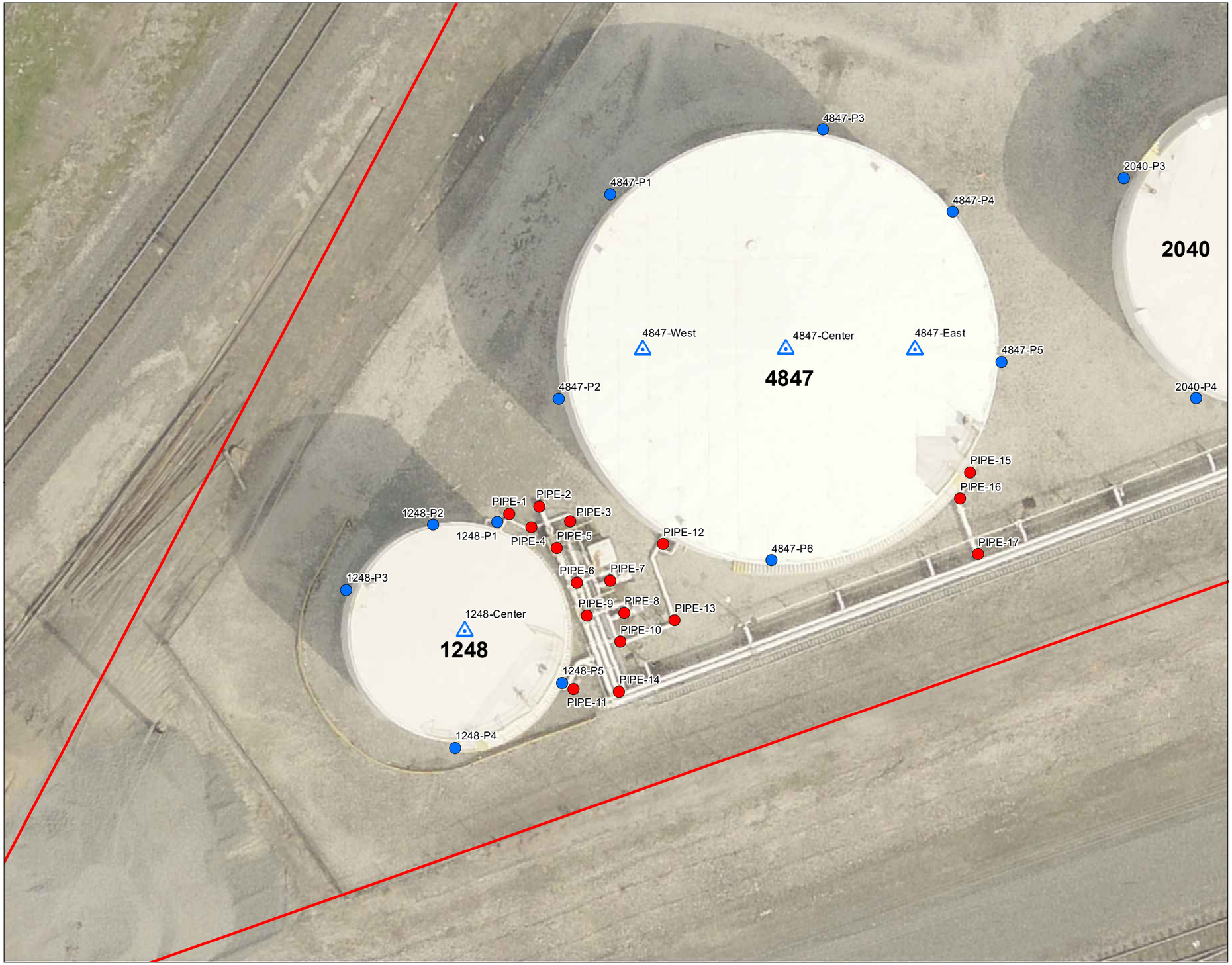


Figure No.
3

Title
Proposed AST Closure Assessment Soil Sample Locations - ASTs 1248 and 4847

Client/Project
PBF Logistics Products and Terminals LLC

Project Location
51st Street,
Philadelphia, PA

213403451
Prepared by GWC on 10/11/2021
Technical Review by DH on 10/1/2021
Independent Review by MS on 10/11/2021

0 20 40 Feet
1:240 (At original document size of 11x17)

N

Legend

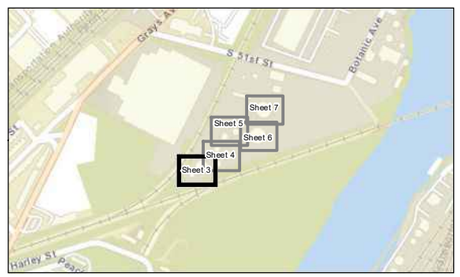
Approximate Site Boundary

Proposed AST Closure Assessment Soil Sample Locations

- Tank Bottom Soil Sample
- Perimeter Soil Sample
- Piping Soil Sample

Notes:

- Soil sample locations subject to change based on field conditions and/or observations
- Input from PADEP may alter sample locations
- Proposed soil sample depths
  - Tank bottom – 5 feet bgs
  - Perimeter – 3 feet bgs
  - Piping – 2 feet bgs
- bgs – below ground surface



Notes

1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
2. Source: Stantec
3. Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
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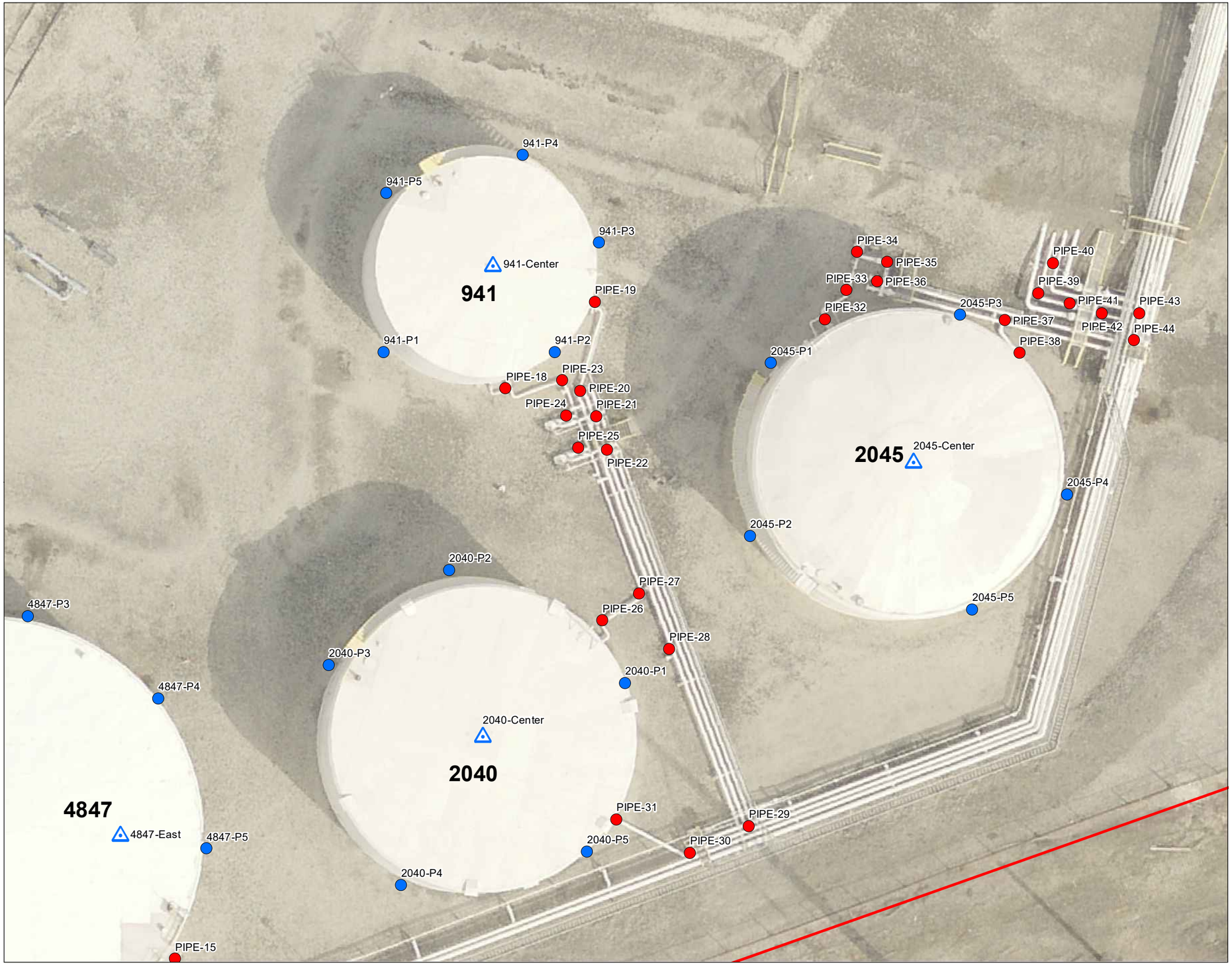

Figure No.
4

Title
Proposed AST Closure Assessment Soil Sample Locations - ASTs 941, 2040, and 2045

Client/Project
PBF Logistics Products and Terminals LLC

Project Location
51st Street,
Philadelphia, PA

213403451
Prepared by GWC on 10/11/2021
Technical Review by DH on 10/1/2021
Independent Review by MS on 10/11/2021

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N

Legend

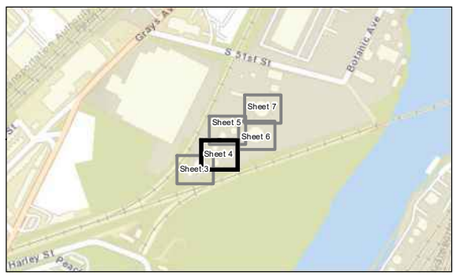
Approximate Site Boundary

Proposed AST Closure Assessment Soil Sample Locations

- Tank Bottom Soil Sample
- Perimeter Soil Sample
- Piping Soil Sample

Notes:

- Soil sample locations subject to change based on field conditions and/or observations
- Input from PADEP may alter sample locations
- Proposed soil sample depths
  - Tank bottom – 5 feet bgs
  - Perimeter – 3 feet bgs
  - Piping – 2 feet bgs
- bgs – below ground surface



Notes

1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
2. Source: Stantec
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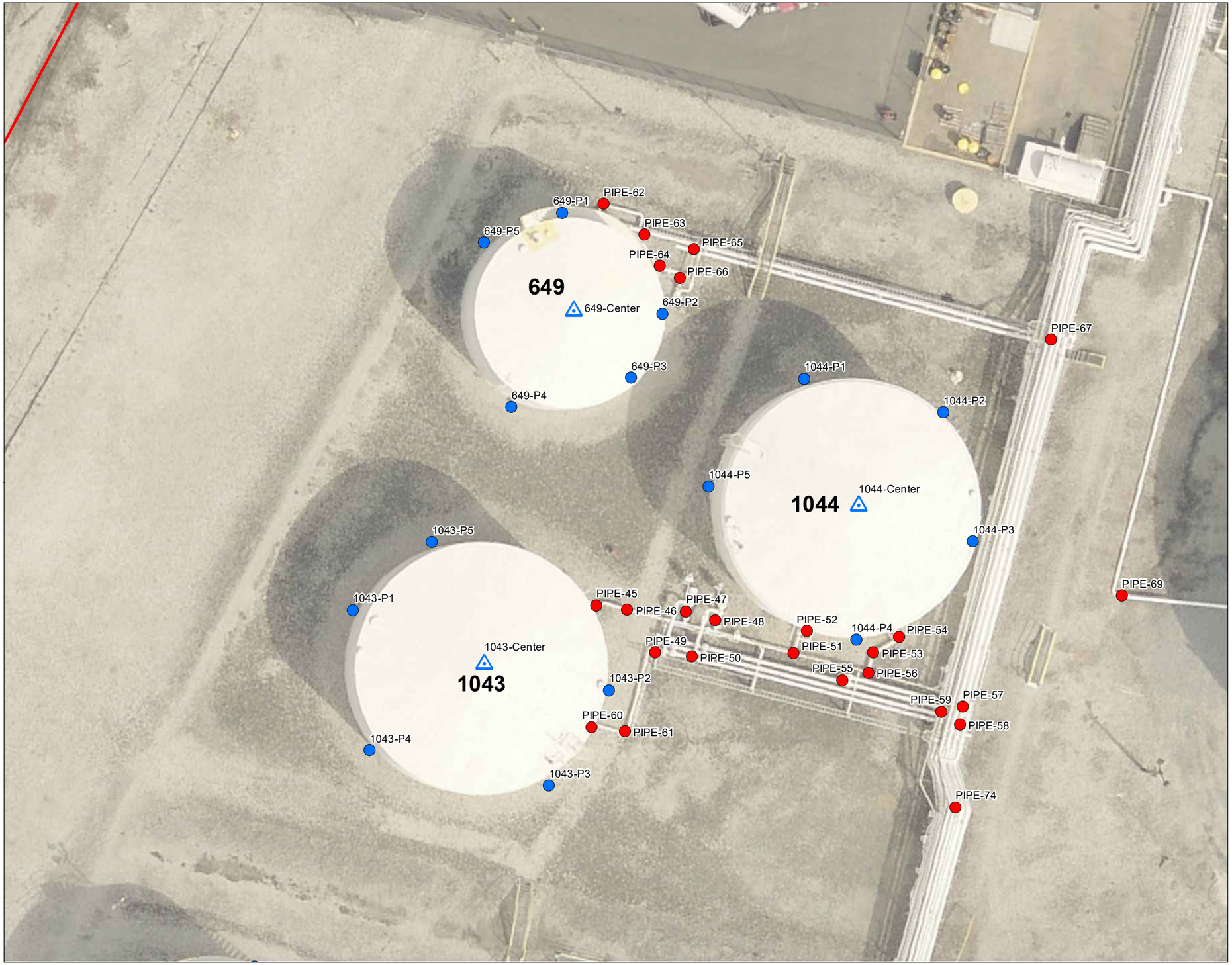


Figure No.
5

Title
Proposed AST Closure Assessment Soil Sample Locations - ASTs 649, 1043, and 1044

Client/Project
PBF Logistics Products and Terminals LLC

Project Location
51st Street,
Philadelphia, PA

213403451
Prepared by GWC on 10/11/2021
Technical Review by DH on 10/1/2021
Independent Review by MS on 10/11/2021

0 20 40 Feet
1:240 (At original document size of 11x17)

N

Legend

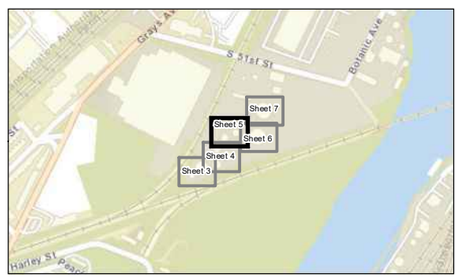
Approximate Site Boundary

Proposed AST Closure Assessment Soil Sample Locations

- Tank Bottom Soil Sample
- Perimeter Soil Sample
- Piping Soil Sample

Notes:

- Soil sample locations subject to change based on field conditions and/or observations
- Input from PADEP may alter sample locations
- Proposed soil sample depths
  - Tank bottom – 5 feet bgs
  - Perimeter – 3 feet bgs
  - Piping – 2 feet bgs
- bgs – below ground surface



Notes

1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
2. Source: Stantec
3. Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
   Philadelphia aerial photography 2018, Philadelphia Office of Innovation and Technology

Stantec

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D:\213\active\213403451\03-data\gis-cad\gis\mxds\Fig_Figures3-7_gst_aerialmapbook_arsi_b.mxd Revised 2021-10-21 By: GC-umy

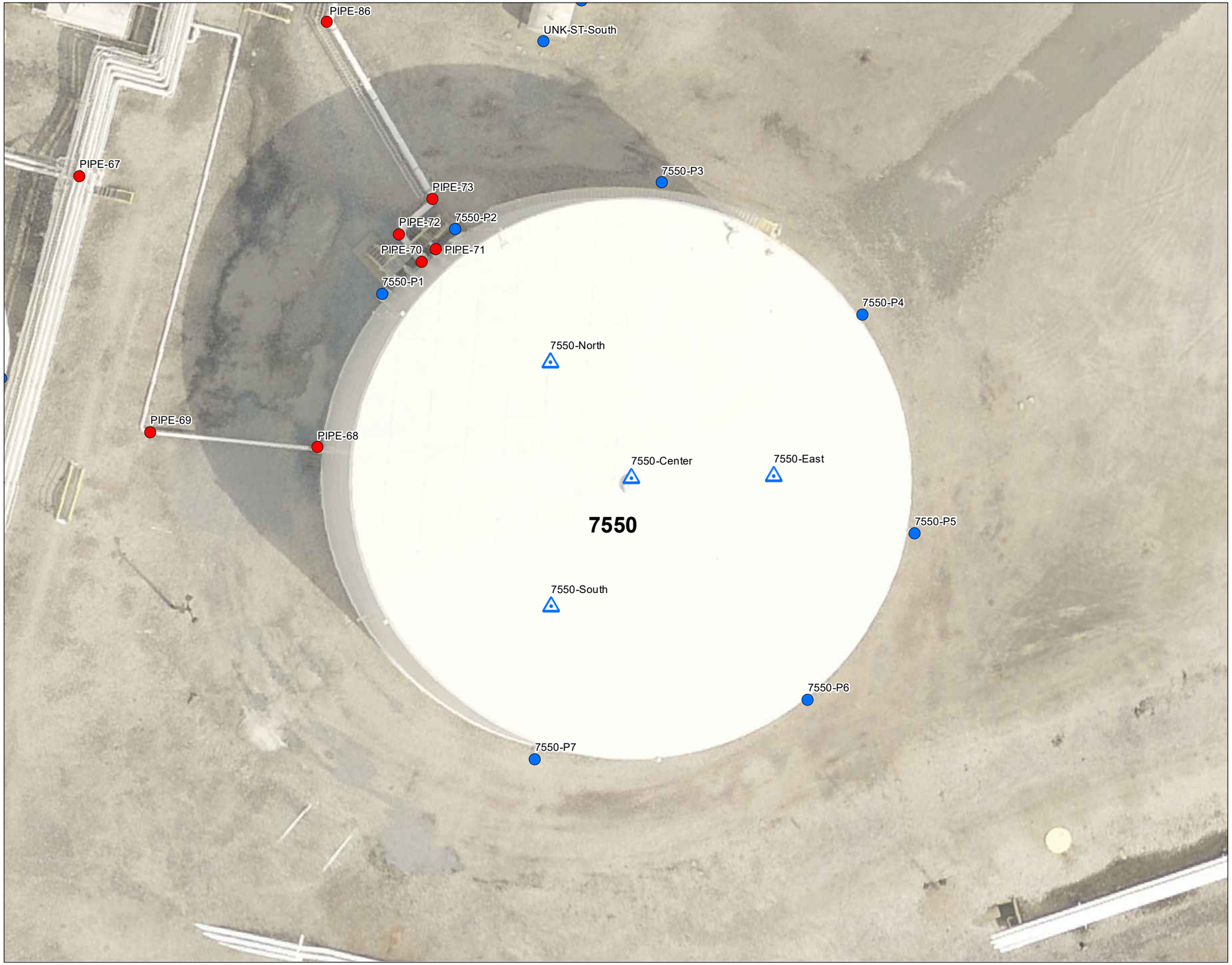


Figure No.
6

Title
Proposed AST Closure Assessment Soil Sample Locations - AST 7550

Client/Project
PBF Logistics Products and Terminals LLC

Project Location
51st Street,
Philadelphia, PA

213403451
Prepared by GWC on 10/11/2021
Technical Review by DH on 10/1/2021
Independent Review by MS on 10/11/2021

0 20 40 Feet
1:240 (At original document size of 11x17)

N

Legend

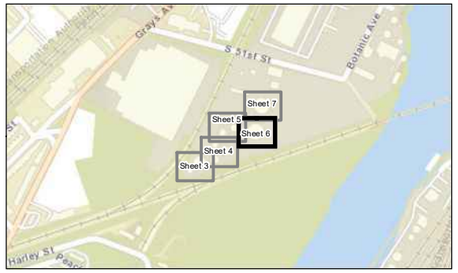
Approximate Site Boundary

Proposed AST Closure Assessment Soil Sample Locations

- Tank Bottom Soil Sample
- Perimeter Soil Sample
- Piping Soil Sample

Notes:

- Soil sample locations subject to change based on field conditions and/or observations
- Input from PADEP may alter sample locations
- Proposed soil sample depths
  - Tank bottom – 5 feet bgs
  - Perimeter – 3 feet bgs
  - Piping – 2 feet bgs
- bgs – below ground surface



Notes

1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
2. Source: Stantec
3. Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
   Philadelphia aerial photography 2018, Philadelphia Office of Innovation and Technology

Stantec

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Figure No.
7

Title
Proposed AST Closure Assessment Soil Sample Locations - AST 7551

Client/Project
PBF Logistics Products and Terminals LLC

Project Location
51st Street,
Philadelphia, PA

213403451
Prepared by GWC on 10/11/2021
Technical Review by DH on 10/1/2021
Independent Review by MS on 10/11/2021

0 20 40 Feet
1:240 (At original document size of 11x17)

N

Legend

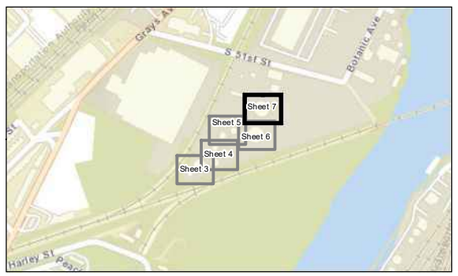
Approximate Site Boundary

Proposed AST Closure Assessment Soil Sample Locations

- Tank Bottom Soil Sample
- Perimeter Soil Sample
- Piping Soil Sample

Notes:

- Soil sample locations subject to change based on field conditions and/or observations
- Input from PADEP may alter sample locations
- Proposed soil sample depths
  - Tank bottom – 5 feet bgs
  - Perimeter – 3 feet bgs
  - Piping – 2 feet bgs
- bgs – below ground surface



Notes

1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
2. Source: Stantec
3. Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
   Philadelphia aerial photography 2018, Philadelphia Office of Innovation and Technology

Stantec

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.

DV:\PA\active\213403451\03 data\gis\cad\gis\mxds\Mp_Figure3-7.pbf centeringbook_esri_b1.mxd Revised: 2021-10-21 By: GCurry

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No. NJ062100038-1

2. Page 1 of 1

3. Generator's Name and Mailing Address PBF Logistics Product Terminal
1630 South 51st Street
Philadelphia, PA 19143

4. Generator's Phone (215) 203-4117

Site Address

5. Transporter 1 Company Name Miller Environmental Group

6. EPA ID # NJD986908085

A. State Transporter's ID

B. Transporter 1 Phone 800-394-8600

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Monarch Environmental
108 East Lake Road
HM Woodstown, NJ 08098

10. EPA ID # NJD011881174

E. State Facility's ID

F. Facility's Phone 856-394-9022

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
GENERATOR	a. Non-RCRA, Non-DOT, Liquids, N.O.S. (Oil Contaminated Water)	1	TT	2468	G
	b.				
	c.				
	d.				

G. Additional Descriptions for Materials Listed Above
NJ062100038

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name On behalf of PBF

Signature

Date: Month 01 Day 05 Year 21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Devin Brenner

Signature

Date: Month 01 Day 05 Year 21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name

Signature

Date: Month Day Year

BILL OF LADING

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No.

2. Page 1 of

3. Generator's Name and Mailing Address

PBF Logistics Products Terminals
PO Box 860
Gibbstown, NJ 08027

4. Generator's Phone ( ) 856-224-6477

Site Address

PBF
1630 South 51st Street
Philadelphia, Pennsylvania 19143

5. Transporter 1 Company Name

Miller Environmental Group, Inc.

6. EPA ID #

NYD986900855

A. State Transporter's ID

B. Transporter 1 Phone 800-394-6506

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

Monarch Environmental Recycling Inc
108 East Lake Road
Woodstown, NJ 08098

HM

10. EPA ID #

E. State Facility's ID

F. Facility's Phone 856-769-9022

GENERATOR

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.	NON-RCRA, NON-DOT REGULATED LIQUIDS, N.O.S./OILY WASTE WATER)		T	1993	
b.					
c.					
d.					

G. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information

TJ06210028

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date Month	Day	Year
		1	6	21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Devin Brimer		1	06	21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

BILL OF LADING

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No.

2. Page 1 of

3. Generator's Name and Mailing Address

PBF Logistics Products Terminals
PO Box 860
Gibbstown, NJ 08027
4. Generator's Phone ( ) 856-224-5477

Site Address

PBF
1630 South 51st Street
Philadelphia, Pennsylvania 19143

5. Transporter 1 Company Name

Miller Environmental Group, Inc

6. EPA ID # NYD986900806

A. State Transporter's ID

B. Transporter 1 Phone 908-354-2606

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

Monarch Environmental Recycling Inc
103 East Lake Road
Woodstown, NJ 08098

HM

10. EPA ID # NJD011881174

E. State Facility's ID

F. Facility's Phone 856-769-9022

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
TA	a. NON-RCRA, NON-DOT REGULATED LIQUIDS, N.O.S./OILY WASTE WATER	1	T	1 275 gal	
	b.				
	c.				
	d.				

GENERATOR

G. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information

NJ06219022

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date Month	Day	Year
MAKSIM I. RANOV	Maksim I. Ranov	1	2	21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Dave Brown		01	02	20

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

BILL OF LADING

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC

24-Hour Emergency Phone Number
1-800-843-8265

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No. NJ0621002 8

2. Page 1 of

3. Generator's Name and Mailing Address
PBF
PO Box 416
Glibbstown NJ 08027

4. Generator's Phone ( )

Site Address
PBF
1630 South St
Philadelphia PA

5. Transporter 1 Company Name
Mill. Environmental Group

6. EPA ID # NYD986905043

A. State Transporter's ID

B. Transporter 1 Phone 800-342-1626

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
PBF
Girard Point Ave
Philadelphia PA

10. EPA ID #

E. State Facility's ID

F. Facility's Phone 951-709-7002

HM

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
GENERATOR	a. NON RCRA / NON DOT Waste Oil	x1	TT	2752 G	
	b.				
	c.				
	d.				

G. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date Month	Day	Year
MAKSIM I. PANOV	Maksim I. Panov	1	8	21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
NCA [illegible]		1	8	21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

BILL OF LADING

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No.

2. Page 1 of

3. Generator's Name and Mailing Address

PBF Logistics Products Terminal
PO Box 250
Gibbstown, NJ 08027

4. Generator's Phone (856) 224-6477

Site Address

PGT
1630 South 51st Street
Philadelphia, Pennsylvania 19142

5. Transporter 1 Company Name

Miller Environmental Group, Inc

6. EPA ID #

NYTRS00[illegible]

A. State Transporter's ID

B. Transporter 1 Phone 330.394.8506

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

Monarch Environmental Recycling Inc
196 East Lake Road
Woodstown, NJ 08098

HM

10. EPA ID #

NJD001981174

E. State Facility's ID

F. Facility's Phone

856-769-9020

GENERATOR

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.	NON RCRA, NON-DOT REGULATED LIQUIDS, N.O.S. (OILY WASTE WATER)			T 2752	
b.					
c.					
d.					

G. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information

NJ05210023

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date Month	Day	Year
MAKSIM I. PANOV	Maksim I. Panov	1	8	21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Devin Brunner		1	8	21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

BILL OF LADING

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THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. _____

Carrier Miller Environmental Group SCAC _____ Carrier's No. NJ06210349-1

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at 105 Rockview Ave Thorofare NJ 08086, date 10 Aug 21 from _____

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:	**FROM:** PBF Logistics Product Terminal
Consignee Miller Environmental	Shipper
Street 102 E Lake	Street 1400 51st Street
Destination Woodstown NJ	Origin Philadelphia PA
Zip	Zip 19143
Route Post	
Delivering Carrier Miller Environmental	Vehicle Number 5505
	U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1T	X	1993	UN 1993 Flammable Liquid N.O.S (Hydrocarbons) Class 3, PG II	3	II	350	G	

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☑ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED 1993

PLACARDS SUPPLIED ☐ BY SHIPPER ☐ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: PBF Logistics Product Terminal LLC

PER: _____ DATE: 10 Aug 21

CARRIER: Miller Environmental

PER: _____ DATE: 10 Aug 21

EMERGENCY RESPONSE TELEPHONE NUMBER: 856 224-1100

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER: Job 704

29-BLS-A4 968 (Rev. 9/10)

4

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No. NJ06210431-1

2. Page 1 of

3. Generator's Name and Mailing Address
PBF Logistics Products Terminals, LLC
PO Box 850
Gibbstown, NJ 08027

4. Generator's Phone ( )

Site Address
51st Street Terminal
1630 South 51st Street
Philadelphia, PA 19143

5. Transporter 1 Company Name
Miller Environmental Group, Inc.

6. EPA ID # NYD986908085

A. State Transporter's ID

B. Transporter 1 Phone 856-394-9506

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Miller Environmental Group Inc.
108 East Lake Road
Woodstown, NJ 08098

HM

10. EPA ID #

E. State Facility's ID

F. Facility's Phone 856-769-9022

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
X	a. UN 1993 Flammable liquids n.o.s. (Transmix), 3, PG II	1	TT	2746	G
	b.				
	c.				
	d.				

GENERATOR

G. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information
Line 1. Approval #: N/A
Job #: NJ06210428
PH1710

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Dan Burke	Dan Burke	10 / 4 / 21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
Nick Pantore		10 / 4 / 21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)

BILL OF LADING

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No. NJ06210392-1

2. Page 1 of

3. Generator's Name and Mailing Address
PSP Logistics Products Terminals, LLC
PO Box 860
Gibbstown, NJ 08027

4. Generator's Phone ( )

Site Address
51st Street Terminal
1630 South 51st Street
Philadelphia, PA 19143

5. Transporter 1 Company Name
Miller Environmental Group, Inc.

6. EPA ID # NYD986908085

A. State Transporter's ID

B. Transporter 1 Phone 800-351-5606

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Miller Environmental Group Inc.
108 East Lake Road
Woodstown, NJ 08098

HM

10. EPA ID #

E. State Facility's ID

F. Facility's Phone 856-769-9022

GENERATOR

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.	NON HAZARDOUS SOLIDS, NON DOT/NON RCRA	1	CM	20	Y
b.					
c.					
d.					

G. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information
Line 1. Approval #: 8543
Job #: NJ06210392
PHI1720

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name: Matt Dreier

Signature

Date: Month 10 Day 11 Year 21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John Daughtry

Signature

Date: Month 10 Day 11 Year 21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name

Signature

Date: Month Day Year

BILL OF LADING

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-50151-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/15/2021 8:44:00 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
8/15/2021 8:44:00 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
FL	MS and/or MSD recovery below control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
FL	MS and/or MSD recovery below control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job ID: 410-50151-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-50151-1

Receipt
The samples were received on 8/5/2021 4:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.9°C and 2.7°C

Receipt Exceptions
The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): Pipe 60 (2) (410-50151-31) and Trip Blank (410-50151-32)

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: 1248-P5 (3) (410-50151-11), Pipe 5 (2) (410-50151-21) and Pipe 17 (2) (410-50151-29). Elevated reporting limits (RLs) are provided.

Method 8260C: Internal standard (ISTD) response for the following sample was outside of acceptance limits: Pipe 2 (2) (410-50151-19). The sample(s) was not re-analyzed due to insufficient volume.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: 4847-P6 (3) — Lab Sample ID: 410-50151-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.9		1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 15 (2) — Lab Sample ID: 410-50151-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	6.4	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.4	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	6.7	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4.3	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	4.5	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	9.2	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	11	FL F2	1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 4847-P2 (3) — Lab Sample ID: 410-50151-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	5.8	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.1	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	6.4	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	6.4	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	5.1	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	12	J	20	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	14	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	15		1.6	0.63	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 4847-P1 (3) — Lab Sample ID: 410-50151-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	4.8	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.4	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.4	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	4.6	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	6.8	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Lead	15		1.2	0.49	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 4847-P3 (3) — Lab Sample ID: 410-50151-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.5		1.2	0.48	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1043-P3 (3) — Lab Sample ID: 410-50151-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	5.6	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	7.6	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	62		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	8.4	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	9.7		1.5	0.61	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP-2 — Lab Sample ID: 410-50151-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	4.9	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	120		1.7	0.67	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: Pipe 61 (2) — Lab Sample ID: 410-50151-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.97	J	5.9	0.59	ug/Kg	1	☼	8260C	Total/NA
Anthracene	170		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	31		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	32		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	51		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	37		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	42		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	93		21	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	52		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	570		1.4	0.55	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1043-P2 (3) — Lab Sample ID: 410-50151-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.94	J	7.3	0.88	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.9	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
Anthracene	38		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	31		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	49		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	32		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	39		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	7.7	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	100		21	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	56		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	490		1.6	0.62	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 11 (2) — Lab Sample ID: 410-50151-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13		1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1248-P5 (3) — Lab Sample ID: 410-50151-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.1		1.2	0.48	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 14 (2) — Lab Sample ID: 410-50151-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	1.7	J	6.4	0.64	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2.5	J	6.4	0.64	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	0.59	J	6.4	0.51	ug/Kg	1	☼	8260C	Total/NA
Pyrene	9.5	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	8.9		1.2	0.47	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1248-P4 (3) — Lab Sample ID: 410-50151-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17		1.2	0.50	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: 1248-P3 (3) — Lab Sample ID: 410-50151-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		1.7	0.67	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1248-P2 (3) — Lab Sample ID: 410-50151-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13		1.2	0.49	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP-1 — Lab Sample ID: 410-50151-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15		1.2	0.50	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 1 (2) — Lab Sample ID: 410-50151-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13		1.3	0.50	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1248-P1 (3) — Lab Sample ID: 410-50151-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17		1.2	0.49	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 2 (2) — Lab Sample ID: 410-50151-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	30		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	250		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	220		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	370		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	180		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	300		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	12	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	97		19	4.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	410		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Lead	25		1.2	0.49	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 3 (2) — Lab Sample ID: 410-50151-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	5.6	J	22	4.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	51		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Lead	19		1.4	0.56	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 5 (2) — Lab Sample ID: 410-50151-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		1.5	0.61	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 7 (2) — Lab Sample ID: 410-50151-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	20000		340	27	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	3100		340	34	ug/Kg	50	☼	8260C	Total/NA
Toluene	99	J	340	41	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	21000		680	95	ug/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 7 (2) (Continued)

Lab Sample ID: 410-50151-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	58	J	340	34	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	11000		340	140	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	7300		340	27	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	150000		6800	680	ug/Kg	1000	☼	8260C	Total/NA
Benzo[a]anthracene	8.3	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	1100		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1900		19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	200		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	9.3		1.3	0.53	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 8 (2)

Lab Sample ID: 410-50151-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	9400		340	34	ug/Kg	50	☼	8260C	Total/NA
Toluene	97	J	340	40	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	23000		670	94	ug/Kg	50	☼	8260C	Total/NA
Benzene	37	J	340	34	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	11000		340	130	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	6300		340	27	ug/Kg	50	☼	8260C	Total/NA
Ethylbenzene - DL	44000		6700	540	ug/Kg	1000	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	150000		6700	670	ug/Kg	1000	☼	8260C	Total/NA
Anthracene	450	FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	9.9	J FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.2	J FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	4.1	J FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	16	J FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	1500	FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	3400	FL F2	19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	310	FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Lead	13		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 6 (2)

Lab Sample ID: 410-50151-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	8.9	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	11	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.4	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	11	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	16	J	19	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	17	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	14		1.5	0.58	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 10 (2)

Lab Sample ID: 410-50151-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	4600		320	26	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	69	J	320	32	ug/Kg	50	☼	8260C	Total/NA
Toluene	43	J	320	39	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	140	J	650	91	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	230	J	320	130	ug/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 10 (2) (Continued)

Lab Sample ID: 410-50151-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	810		320	32	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	4300		320	26	ug/Kg	50	☼	8260C	Total/NA
Anthracene	360		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	8.2	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5.4	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	4.8	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4.5	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	15	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	1700		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	2500		19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	230		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Lead	32		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 9 (2)

Lab Sample ID: 410-50151-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	5600		290	23	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	84	J	290	29	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	360	J	580	81	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	2500		290	120	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	260	J	290	29	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	2100		290	23	ug/Kg	50	☼	8260C	Total/NA
Anthracene	230		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	14	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	12	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	11	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	19		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	870		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1400		18	4.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	140		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Lead	15		1.4	0.55	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 12 (2)

Lab Sample ID: 410-50151-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	320	J	360	29	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1100		360	36	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	940		730	100	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	1200		360	150	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2700		360	36	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	260	J	360	29	ug/Kg	50	☼	8260C	Total/NA
Anthracene	220		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	8.9	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	11	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	17	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	11	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	17	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	540		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	410		19	4.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	330		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Lead	13		1.3	0.53	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: Pipe 13 (2) — Lab Sample ID: 410-50151-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	2300		310	25	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	2900		310	120	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	90	J	310	31	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	3600		310	25	ug/Kg	50	☼	8260C	Total/NA
Anthracene	190		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	6.2	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	3.7	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5.5	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	11	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	780		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1300		18	4.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	180		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Lead	12		1.2	0.49	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 17 (2) — Lab Sample ID: 410-50151-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	27	J	270	27	ug/Kg	50	☼	8260C	Total/NA
Anthracene	11	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	16	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	15	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	23		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	14	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	26		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	11	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	31		20	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	22		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	16		1.7	0.66	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 16 (2) — Lab Sample ID: 410-50151-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	4.5	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	4.0		1.4	0.54	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 60 (2) — Lab Sample ID: 410-50151-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	3.9	J	6.9	0.82	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.8	J	14	1.9	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.0	J	6.9	0.69	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	5.0	J	6.9	2.7	ug/Kg	1	☼	8260C	Total/NA
Anthracene	130		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	10	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	10	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	13	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.5	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	23		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	110		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	22		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	190		1.3	0.53	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: Trip Blank **Lab Sample ID: 410-50151-32**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: 4847-P6 (3)

Date Collected: 08/05/21 09:10
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-1

Matrix: Solid
Percent Solids: 73.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.4	0.52	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
1,2-Dichloroethane	ND		6.4	0.77	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
1,3,5-Trimethylbenzene	ND		6.4	0.64	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
Toluene	ND		6.4	0.77	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
Xylenes, Total	ND		13	1.8	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
Methyl tertiary butyl ether	ND		6.4	0.64	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
Benzene	ND		6.4	0.64	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
Naphthalene	ND		6.4	2.6	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
1,2,4-Trimethylbenzene	ND		6.4	0.64	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
Isopropylbenzene	ND		6.4	0.52	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
1,2-Dibromoethane	ND		6.4	0.52	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/06/21 14:36*	*08/09/21 12:07*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/06/21 14:36*	*08/09/21 12:07*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/06/21 14:36*	*08/09/21 12:07*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/06/21 14:36*	*08/09/21 12:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Benzo[a]anthracene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Benzo[a]pyrene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Benzo[b]fluoranthene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Benzo[g,h,i]perylene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Chrysene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Fluorene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Phenanthrene	ND		23	5.4	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Pyrene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*16*	*S1-*	*39 - 100*	*08/10/21 17:56*	*08/11/21 09:17*	*1*
Nitrobenzene-d5 (Surr)	*35*		*32 - 97*	*08/10/21 17:56*	*08/11/21 09:17*	*1*
p-Terphenyl-d14 (Surr)	*5*	*S1-*	*45 - 108*	*08/10/21 17:56*	*08/11/21 09:17*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**2.9**		1.7	0.69	mg/Kg	☼	08/06/21 10:20	08/10/21 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26.5**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 15 (2)

Date Collected: 08/05/21 09:30
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-2

Matrix: Solid
Percent Solids: 85.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.3	0.43	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
1,2-Dichloroethane	ND		5.3	0.64	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1

Client Sample ID: Pipe 15 (2)

Lab Sample ID: 410-50151-2

Date Collected: 08/05/21 09:30

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 85.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.3	0.53	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
Toluene	ND		5.3	0.64	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
Methyl tertiary butyl ether	ND		5.3	0.53	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
Benzene	ND		5.3	0.53	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
Naphthalene	ND		5.3	2.1	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
1,2,4-Trimethylbenzene	ND		5.3	0.53	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
Isopropylbenzene	ND		5.3	0.43	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
1,2-Dibromoethane	ND		5.3	0.43	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*54 - 135*	*08/06/21 14:36*	*08/09/21 12:29*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/06/21 14:36*	*08/09/21 12:29*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/06/21 14:36*	*08/09/21 12:29*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 14:36*	*08/09/21 12:29*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Benzo[a]anthracene	**6.4**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Benzo[a]pyrene	**4.4**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Benzo[b]fluoranthene	**6.7**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Benzo[g,h,i]perylene	**4.3**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Chrysene	**4.5**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Fluorene	ND		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Phenanthrene	ND		19	4.6	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Pyrene	**9.2**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/10/21 17:56*	*08/11/21 09:40*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/10/21 17:56*	*08/11/21 09:40*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*08/10/21 17:56*	*08/11/21 09:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**	**FL F2**	1.7	0.69	mg/Kg	☼	08/06/21 10:20	08/10/21 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.5**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 4847-P2 (3)

Lab Sample ID: 410-50151-3

Date Collected: 08/05/21 10:40

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 80.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.1	0.41	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
1,2-Dichloroethane	ND		5.1	0.61	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
1,3,5-Trimethylbenzene	ND		5.1	0.51	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
Toluene	ND		5.1	0.61	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1

Client Sample ID: 4847-P2 (3)

Lab Sample ID: 410-50151-3

Date Collected: 08/05/21 10:40
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 80.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		10	1.4	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
Methyl tertiary butyl ether	ND		5.1	0.51	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
Benzene	ND		5.1	0.51	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
Naphthalene	ND		5.1	2.0	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
1,2,4-Trimethylbenzene	ND		5.1	0.51	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
Isopropylbenzene	ND		5.1	0.41	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
1,2-Dibromoethane	ND		5.1	0.41	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*54 - 135*	*08/06/21 14:36*	*08/09/21 12:52*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/06/21 14:36*	*08/09/21 12:52*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/06/21 14:36*	*08/09/21 12:52*	*1*
Toluene-d8 (Surr)	*90*		*52 - 141*	*08/06/21 14:36*	*08/09/21 12:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Benzo[a]anthracene	**5.8**	**J**	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Benzo[a]pyrene	**6.1**	**J**	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Benzo[b]fluoranthene	**6.4**	**J**	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Benzo[g,h,i]perylene	ND		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Chrysene	**6.4**	**J**	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Fluorene	**5.1**	**J**	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Phenanthrene	**12**	**J**	20	4.9	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Pyrene	**14**	**J**	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*39 - 100*	*08/10/21 17:56*	*08/11/21 10:02*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*08/10/21 17:56*	*08/11/21 10:02*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/10/21 17:56*	*08/11/21 10:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**15**		1.6	0.63	mg/Kg	☼	08/06/21 10:20	08/10/21 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.1**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 4847-P1 (3)

Lab Sample ID: 410-50151-4

Date Collected: 08/05/21 10:55
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.7	0.45	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
1,2-Dichloroethane	ND		5.7	0.68	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
1,3,5-Trimethylbenzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
Toluene	ND		5.7	0.68	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
Xylenes, Total	ND		11	1.6	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
Methyl tertiary butyl ether	ND		5.7	0.57	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1

Client Sample ID: 4847-P1 (3)

Lab Sample ID: 410-50151-4

Date Collected: 08/05/21 10:55
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
Naphthalene	ND		5.7	2.3	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
1,2,4-Trimethylbenzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
Isopropylbenzene	ND		5.7	0.45	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
1,2-Dibromoethane	ND		5.7	0.45	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*54 - 135*	*08/06/21 14:36*	*08/09/21 13:15*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/06/21 14:36*	*08/09/21 13:15*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/06/21 14:36*	*08/09/21 13:15*	*1*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/06/21 14:36*	*08/09/21 13:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Benzo[a]anthracene	**4.8**	**J**	19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Benzo[a]pyrene	**4.4**	**J**	19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Benzo[b]fluoranthene	**5.4**	**J**	19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Benzo[g,h,i]perylene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Chrysene	**4.6**	**J**	19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Fluorene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Pyrene	**6.8**	**J**	19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/10/21 17:56*	*08/11/21 10:25*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*08/10/21 17:56*	*08/11/21 10:25*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*08/10/21 17:56*	*08/11/21 10:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**15**		1.2	0.49	mg/Kg	☼	08/06/21 10:20	08/10/21 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 4847-P3 (3)

Lab Sample ID: 410-50151-5

Date Collected: 08/05/21 11:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 89.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		4.9	0.39	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
1,2-Dichloroethane	ND		4.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
1,3,5-Trimethylbenzene	ND		4.9	0.49	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
Toluene	ND		4.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
Xylenes, Total	ND		9.8	1.4	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
Methyl tertiary butyl ether	ND		4.9	0.49	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
Benzene	ND		4.9	0.49	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
Naphthalene	ND		4.9	2.0	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1

Client Sample ID: 4847-P3 (3)

Date Collected: 08/05/21 11:00
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-5

Matrix: Solid
Percent Solids: 89.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		4.9	0.49	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
Isopropylbenzene	ND		4.9	0.39	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
1,2-Dibromoethane	ND		4.9	0.39	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*54 - 135*	*08/06/21 14:36*	*08/09/21 13:38*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/06/21 14:36*	*08/09/21 13:38*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/06/21 14:36*	*08/09/21 13:38*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 14:36*	*08/09/21 13:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Benzo[a]anthracene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Benzo[a]pyrene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Benzo[b]fluoranthene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Benzo[g,h,i]perylene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Chrysene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Fluorene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Pyrene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/10/21 17:56*	*08/11/21 10:47*	*1*
Nitrobenzene-d5 (Surr)	*77*		*32 - 97*	*08/10/21 17:56*	*08/11/21 10:47*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*08/10/21 17:56*	*08/11/21 10:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.5**		1.2	0.48	mg/Kg	☼	08/06/21 10:20	08/10/21 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1043-P3 (3)

Date Collected: 08/05/21 11:35
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-6

Matrix: Solid
Percent Solids: 78.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.8	0.62	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
1,2-Dichloroethane	ND		7.8	0.93	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
1,3,5-Trimethylbenzene	ND		7.8	0.78	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
Toluene	ND		7.8	0.93	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
Xylenes, Total	ND		16	2.2	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
Methyl tertiary butyl ether	ND		7.8	0.78	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
Benzene	ND		7.8	0.78	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
Naphthalene	ND		7.8	3.1	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
1,2,4-Trimethylbenzene	ND		7.8	0.78	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
Isopropylbenzene	ND		7.8	0.62	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1

Client Sample ID: 1043-P3 (3)

Lab Sample ID: 410-50151-6

Date Collected: 08/05/21 11:35
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 78.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		7.8	0.62	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*54 - 135*	*08/06/21 14:36*	*08/09/21 14:00*	*1*
4-Bromofluorobenzene (Surr)	*78*		*50 - 131*	*08/06/21 14:36*	*08/09/21 14:00*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*	*08/06/21 14:36*	*08/09/21 14:00*	*1*
Toluene-d8 (Surr)	*100*		*52 - 141*	*08/06/21 14:36*	*08/09/21 14:00*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Benzo[a]anthracene	ND		21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Benzo[a]pyrene	ND		21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Benzo[b]fluoranthene	**5.6**	**J**	21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Benzo[g,h,i]perylene	ND		21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Chrysene	**7.6**	**J**	21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Phenanthrene	**62**		21	5.0	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Pyrene	**8.4**	**J**	21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/12/21 18:24*	*08/13/21 12:35*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/12/21 18:24*	*08/13/21 12:35*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/12/21 18:24*	*08/13/21 12:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**9.7**		1.5	0.61	mg/Kg	☼	08/06/21 10:20	08/10/21 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.6**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: DUP-2

Lab Sample ID: 410-50151-7

Date Collected: 08/05/21 00:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 78.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.7	0.62	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
1,2-Dichloroethane	ND		7.7	0.93	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
1,3,5-Trimethylbenzene	ND		7.7	0.77	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
Toluene	ND		7.7	0.93	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
Xylenes, Total	ND		15	2.2	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
Methyl tertiary butyl ether	ND		7.7	0.77	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
Benzene	ND		7.7	0.77	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
Naphthalene	ND		7.7	3.1	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
1,2,4-Trimethylbenzene	ND		7.7	0.77	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
Isopropylbenzene	ND		7.7	0.62	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
1,2-Dibromoethane	ND		7.7	0.62	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1

Client Sample ID: DUP-2

Lab Sample ID: 410-50151-7

Date Collected: 08/05/21 00:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 78.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*117*		*54 - 135*	*08/06/21 14:36*	*08/09/21 16:39*	*1*
4-Bromofluorobenzene (Surr)	*76*		*50 - 131*	*08/06/21 14:36*	*08/09/21 16:39*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/06/21 14:36*	*08/09/21 16:39*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/06/21 14:36*	*08/09/21 16:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Benzo[a]anthracene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Benzo[a]pyrene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Benzo[b]fluoranthene	**4.9**	**J**	21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Benzo[g,h,i]perylene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Chrysene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Phenanthrene	ND		21	5.0	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Pyrene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*4*	*S1-*	*39 - 100*	*08/10/21 17:56*	*08/11/21 11:10*	*1*
Nitrobenzene-d5 (Surr)	*1*	*S1-*	*32 - 97*	*08/10/21 17:56*	*08/11/21 11:10*	*1*
p-Terphenyl-d14 (Surr)	*24*	*S1-*	*45 - 108*	*08/10/21 17:56*	*08/11/21 11:10*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**120**		1.7	0.67	mg/Kg	☼	08/06/21 10:20	08/10/21 11:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.2**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 61 (2)

Lab Sample ID: 410-50151-8

Date Collected: 08/05/21 11:50
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 80.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.9	0.47	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
1,2-Dichloroethane	ND		5.9	0.71	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
1,3,5-Trimethylbenzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
Toluene	ND		5.9	0.71	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
Xylenes, Total	ND		12	1.6	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
Methyl tertiary butyl ether	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
Benzene	**0.97**	**J**	5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
Naphthalene	ND		5.9	2.4	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
1,2,4-Trimethylbenzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
Isopropylbenzene	ND		5.9	0.47	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
1,2-Dibromoethane	ND		5.9	0.47	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*119*		*54 - 135*	*08/06/21 14:36*	*08/09/21 14:23*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/06/21 14:36*	*08/09/21 14:23*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/06/21 14:36*	*08/09/21 14:23*	*1*

Client Sample ID: Pipe 61 (2)

Lab Sample ID: 410-50151-8

Date Collected: 08/05/21 11:50
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 80.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 14:36*	*08/09/21 14:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**170**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Benzo[a]anthracene	**31**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Benzo[a]pyrene	**32**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Benzo[b]fluoranthene	**51**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Benzo[g,h,i]perylene	**37**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Chrysene	**42**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Fluorene	ND		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Phenanthrene	**93**		21	4.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Pyrene	**52**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/10/21 17:56*	*08/11/21 11:32*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*08/10/21 17:56*	*08/11/21 11:32*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/10/21 17:56*	*08/11/21 11:32*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**570**		1.4	0.55	mg/Kg	☼	08/06/21 10:20	08/10/21 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.7**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1043-P2 (3)

Lab Sample ID: 410-50151-9

Date Collected: 08/05/21 11:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.3	0.58	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
1,2-Dichloroethane	ND		7.3	0.88	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
1,3,5-Trimethylbenzene	ND		7.3	0.73	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
Toluene	**0.94**	**J**	7.3	0.88	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
Xylenes, Total	ND		15	2.0	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
Methyl tertiary butyl ether	ND		7.3	0.73	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
Benzene	**1.9**	**J**	7.3	0.73	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
Naphthalene	ND		7.3	2.9	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
1,2,4-Trimethylbenzene	ND		7.3	0.73	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
Isopropylbenzene	ND		7.3	0.58	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
1,2-Dibromoethane	ND		7.3	0.58	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/06/21 14:36*	*08/09/21 17:02*	*1*
4-Bromofluorobenzene (Surr)	*78*		*50 - 131*	*08/06/21 14:36*	*08/09/21 17:02*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/06/21 14:36*	*08/09/21 17:02*	*1*
Toluene-d8 (Surr)	*100*		*52 - 141*	*08/06/21 14:36*	*08/09/21 17:02*	*1*

Client Sample ID: 1043-P2 (3)

Lab Sample ID: 410-50151-9

Date Collected: 08/05/21 11:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	38		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Benzo[a]anthracene	26		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Benzo[a]pyrene	31		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Benzo[b]fluoranthene	49		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Benzo[g,h,i]perylene	32		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Chrysene	39		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Fluorene	7.7	J	21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Phenanthrene	100		21	5.1	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Pyrene	56		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/10/21 09:43*	*08/12/21 00:43*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/10/21 09:43*	*08/12/21 00:43*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/10/21 09:43*	*08/12/21 00:43*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	490		1.6	0.62	mg/Kg	☼	08/06/21 10:20	08/10/21 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.9		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 11 (2)

Lab Sample ID: 410-50151-10

Date Collected: 08/04/21 08:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.5	0.44	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
1,2-Dichloroethane	ND		5.5	0.67	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
1,3,5-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
Toluene	ND		5.5	0.67	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
Xylenes, Total	ND		11	1.6	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
Methyl tertiary butyl ether	ND		5.5	0.55	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
Benzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
Naphthalene	ND		5.5	2.2	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
1,2,4-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
Isopropylbenzene	ND		5.5	0.44	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
1,2-Dibromoethane	ND		5.5	0.44	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*54 - 135*	*08/06/21 14:49*	*08/09/21 17:25*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/06/21 14:49*	*08/09/21 17:25*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/06/21 14:49*	*08/09/21 17:25*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 14:49*	*08/09/21 17:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Benzo[a]anthracene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1

Client Sample ID: Pipe 11 (2)

Lab Sample ID: 410-50151-10

Date Collected: 08/04/21 08:45
Date Received: 08/05/21 16:02

Matrix: Solid
Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Benzo[b]fluoranthene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Benzo[g,h,i]perylene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Chrysene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Fluorene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Pyrene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*08/13/21 09:46*	*08/14/21 00:28*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/13/21 09:46*	*08/14/21 00:28*	*1*
p-Terphenyl-d14 (Surr)	*96*		*45 - 108*	*08/13/21 09:46*	*08/14/21 00:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		1.5	0.59	mg/Kg	☼	08/06/21 10:20	08/10/21 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1248-P5 (3)

Lab Sample ID: 410-50151-11

Date Collected: 08/04/21 09:00
Date Received: 08/05/21 16:02

Matrix: Solid
Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		290	23	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
1,2-Dichloroethane	ND		290	35	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
1,3,5-Trimethylbenzene	ND		290	29	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
Toluene	ND		290	35	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
Xylenes, Total	ND		580	81	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
Methyl tertiary butyl ether	ND		290	29	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
Benzene	ND		290	29	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
Naphthalene	ND		290	120	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
1,2,4-Trimethylbenzene	ND		290	29	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
Isopropylbenzene	ND		290	23	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
1,2-Dibromoethane	ND		290	23	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*54 - 135*	*08/06/21 14:43*	*08/10/21 00:51*	*50*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*	*08/06/21 14:43*	*08/10/21 00:51*	*50*
Dibromofluoromethane (Surr)	*85*		*50 - 141*	*08/06/21 14:43*	*08/10/21 00:51*	*50*
Toluene-d8 (Surr)	*82*		*52 - 141*	*08/06/21 14:43*	*08/10/21 00:51*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Benzo[a]anthracene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Benzo[a]pyrene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Benzo[b]fluoranthene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1

Client Sample ID: 1248-P5 (3)

Lab Sample ID: 410-50151-11

Date Collected: 08/04/21 09:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Chrysene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Fluorene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Pyrene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*39 - 100*	*08/13/21 09:46*	*08/14/21 01:39*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/13/21 09:46*	*08/14/21 01:39*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/13/21 09:46*	*08/14/21 01:39*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**9.1**		1.2	0.48	mg/Kg	☼	08/06/21 11:08	08/10/21 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 14 (2)

Lab Sample ID: 410-50151-12

Date Collected: 08/04/21 09:10
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.4	0.51	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
1,2-Dichloroethane	ND		6.4	0.77	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
1,3,5-Trimethylbenzene	**1.7**	**J**	6.4	0.64	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
Toluene	ND		6.4	0.77	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
Xylenes, Total	ND		13	1.8	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
Methyl tertiary butyl ether	ND		6.4	0.64	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
Benzene	ND		6.4	0.64	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
Naphthalene	ND		6.4	2.6	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
1,2,4-Trimethylbenzene	**2.5**	**J**	6.4	0.64	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
Isopropylbenzene	**0.59**	**J**	6.4	0.51	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
1,2-Dibromoethane	ND		6.4	0.51	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/06/21 14:49*	*08/09/21 17:47*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/06/21 14:49*	*08/09/21 17:47*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 141*	*08/06/21 14:49*	*08/09/21 17:47*	*1*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/06/21 14:49*	*08/09/21 17:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Benzo[a]anthracene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Benzo[a]pyrene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Benzo[b]fluoranthene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Benzo[g,h,i]perylene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Chrysene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1

Client Sample ID: Pipe 14 (2)

Lab Sample ID: 410-50151-12

Date Collected: 08/04/21 09:10
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Phenanthrene	ND		19	4.7	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Pyrene	**9.5**	**J**	19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/13/21 09:46*	*08/14/21 02:02*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*08/13/21 09:46*	*08/14/21 02:02*	*1*
p-Terphenyl-d14 (Surr)	*95*		*45 - 108*	*08/13/21 09:46*	*08/14/21 02:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.9**		1.2	0.47	mg/Kg	☼	08/06/21 10:20	08/10/21 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.0**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1248-P4 (3)

Lab Sample ID: 410-50151-13

Date Collected: 08/04/21 09:30
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 86.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.2	0.49	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
1,2-Dichloroethane	ND		6.2	0.74	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
1,3,5-Trimethylbenzene	ND		6.2	0.62	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
Toluene	ND		6.2	0.74	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
Xylenes, Total	ND		12	1.7	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
Methyl tertiary butyl ether	ND		6.2	0.62	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
Benzene	ND		6.2	0.62	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
Naphthalene	ND		6.2	2.5	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
1,2,4-Trimethylbenzene	ND		6.2	0.62	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
Isopropylbenzene	ND		6.2	0.49	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
1,2-Dibromoethane	ND		6.2	0.49	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*54 - 135*	*08/06/21 13:58*	*08/09/21 14:46*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/06/21 13:58*	*08/09/21 14:46*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/06/21 13:58*	*08/09/21 14:46*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/06/21 13:58*	*08/09/21 14:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Benzo[a]anthracene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Benzo[a]pyrene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Benzo[b]fluoranthene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Benzo[g,h,i]perylene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Chrysene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Fluorene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Phenanthrene	ND		19	4.6	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1

Client Sample ID: 1248-P4 (3)

Date Collected: 08/04/21 09:30
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-13

Matrix: Solid
Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*	*08/13/21 09:46*	*08/14/21 02:26*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/13/21 09:46*	*08/14/21 02:26*	*1*
p-Terphenyl-d14 (Surr)	*100*		*45 - 108*	*08/13/21 09:46*	*08/14/21 02:26*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**17**		1.2	0.50	mg/Kg	☼	08/06/21 10:20	08/10/21 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.5**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1248-P3 (3)

Date Collected: 08/04/21 10:00
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-14

Matrix: Solid
Percent Solids: 85.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.7	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
1,2-Dichloroethane	ND		5.7	0.69	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
1,3,5-Trimethylbenzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
Toluene	ND		5.7	0.69	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
Xylenes, Total	ND		11	1.6	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
Methyl tertiary butyl ether	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
Benzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
Naphthalene	ND		5.7	2.3	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
1,2,4-Trimethylbenzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
Isopropylbenzene	ND		5.7	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
1,2-Dibromoethane	ND		5.7	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*08/06/21 13:58*	*08/09/21 18:10*	*1*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*	*08/06/21 13:58*	*08/09/21 18:10*	*1*
Dibromofluoromethane (Surr)	*98*		*50 - 141*	*08/06/21 13:58*	*08/09/21 18:10*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/06/21 13:58*	*08/09/21 18:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Benzo[a]anthracene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Benzo[a]pyrene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Benzo[b]fluoranthene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Benzo[g,h,i]perylene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Chrysene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Fluorene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Phenanthrene	ND		19	4.7	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Pyrene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1

Client Sample ID: 1248-P3 (3)

Lab Sample ID: 410-50151-14

Date Collected: 08/04/21 10:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/13/21 09:46*	*08/14/21 02:49*	*1*
Nitrobenzene-d5 (Surr)	*77*		*32 - 97*	*08/13/21 09:46*	*08/14/21 02:49*	*1*
p-Terphenyl-d14 (Surr)	*103*		*45 - 108*	*08/13/21 09:46*	*08/14/21 02:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		1.7	0.67	mg/Kg	☼	08/06/21 11:08	08/10/21 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.9**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1248-P2 (3)

Lab Sample ID: 410-50151-15

Date Collected: 08/04/21 10:10
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 92.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.5	0.44	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
1,2-Dichloroethane	ND		5.5	0.66	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
1,3,5-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
Toluene	ND		5.5	0.66	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
Methyl tertiary butyl ether	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
Benzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
Naphthalene	ND		5.5	2.2	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
1,2,4-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
Isopropylbenzene	ND		5.5	0.44	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
1,2-Dibromoethane	ND		5.5	0.44	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*54 - 135*	*08/06/21 13:58*	*08/09/21 15:08*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/06/21 13:58*	*08/09/21 15:08*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/06/21 13:58*	*08/09/21 15:08*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 13:58*	*08/09/21 15:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Benzo[a]anthracene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Benzo[a]pyrene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Benzo[b]fluoranthene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Benzo[g,h,i]perylene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Chrysene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Fluorene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Phenanthrene	ND		18	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Pyrene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/13/21 09:46*	*08/14/21 03:13*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/13/21 09:46*	*08/14/21 03:13*	*1*
p-Terphenyl-d14 (Surr)	*103*		*45 - 108*	*08/13/21 09:46*	*08/14/21 03:13*	*1*

Client Sample ID: 1248-P2 (3)

Lab Sample ID: 410-50151-15
Date Collected: 08/04/21 10:10
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 92.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		1.2	0.49	mg/Kg	☼	08/06/21 11:08	08/10/21 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: DUP-1

Lab Sample ID: 410-50151-16
Date Collected: 08/04/21 00:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.9	0.47	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
1,2-Dichloroethane	ND		5.9	0.71	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
1,3,5-Trimethylbenzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
Toluene	ND		5.9	0.71	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
Xylenes, Total	ND		12	1.7	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
Methyl tertiary butyl ether	ND		5.9	0.59	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
Benzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
Naphthalene	ND		5.9	2.4	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
1,2,4-Trimethylbenzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
Isopropylbenzene	ND		5.9	0.47	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
1,2-Dibromoethane	ND		5.9	0.47	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*54 - 135*	*08/06/21 13:58*	*08/09/21 15:31*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/06/21 13:58*	*08/09/21 15:31*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*08/06/21 13:58*	*08/09/21 15:31*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 13:58*	*08/09/21 15:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Benzo[a]anthracene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Benzo[a]pyrene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Benzo[b]fluoranthene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Benzo[g,h,i]perylene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Chrysene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Fluorene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Pyrene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*08/13/21 09:46*	*08/14/21 03:37*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/13/21 09:46*	*08/14/21 03:37*	*1*
p-Terphenyl-d14 (Surr)	*101*		*45 - 108*	*08/13/21 09:46*	*08/14/21 03:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		1.2	0.50	mg/Kg	☼	08/06/21 10:20	08/10/21 11:15	1

Client Sample ID: DUP-1

Lab Sample ID: 410-50151-16

Date Collected: 08/04/21 00:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 1 (2)

Lab Sample ID: 410-50151-17

Date Collected: 08/04/21 10:30
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 89.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.5	0.44	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
1,2-Dichloroethane	ND		5.5	0.66	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
1,3,5-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
Toluene	ND		5.5	0.66	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
Methyl tertiary butyl ether	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
Benzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
Naphthalene	ND		5.5	2.2	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
1,2,4-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
Isopropylbenzene	ND		5.5	0.44	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
1,2-Dibromoethane	ND		5.5	0.44	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*54 - 135*	*08/06/21 13:58*	*08/09/21 19:18*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/06/21 13:58*	*08/09/21 19:18*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/06/21 13:58*	*08/09/21 19:18*	*1*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/06/21 13:58*	*08/09/21 19:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Benzo[a]anthracene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Benzo[a]pyrene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Benzo[b]fluoranthene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Benzo[g,h,i]perylene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Chrysene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Fluorene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Pyrene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*39 - 100*	*08/13/21 09:46*	*08/14/21 04:00*	*1*
Nitrobenzene-d5 (Surr)	*77*		*32 - 97*	*08/13/21 09:46*	*08/14/21 04:00*	*1*
p-Terphenyl-d14 (Surr)	*102*		*45 - 108*	*08/13/21 09:46*	*08/14/21 04:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		1.3	0.50	mg/Kg	☼	08/06/21 11:08	08/10/21 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.0		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1248-P1 (3)

Lab Sample ID: 410-50151-18

Date Collected: 08/04/21 10:35
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.8	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
1,2-Dichloroethane	ND		5.8	0.69	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
1,3,5-Trimethylbenzene	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
Toluene	ND		5.8	0.69	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
Xylenes, Total	ND		12	1.6	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
Methyl tertiary butyl ether	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
Benzene	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
Naphthalene	ND		5.8	2.3	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
1,2,4-Trimethylbenzene	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
Isopropylbenzene	ND		5.8	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
1,2-Dibromoethane	ND		5.8	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/06/21 13:58*	*08/09/21 15:54*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/06/21 13:58*	*08/09/21 15:54*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/06/21 13:58*	*08/09/21 15:54*	*1*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/06/21 13:58*	*08/09/21 15:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Benzo[a]anthracene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Benzo[a]pyrene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Benzo[b]fluoranthene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Benzo[g,h,i]perylene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Chrysene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Fluorene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Phenanthrene	ND		20	4.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Pyrene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*08/13/21 09:46*	*08/14/21 04:24*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/13/21 09:46*	*08/14/21 04:24*	*1*
p-Terphenyl-d14 (Surr)	*101*		*45 - 108*	*08/13/21 09:46*	*08/14/21 04:24*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**17**		1.2	0.49	mg/Kg	☼	08/06/21 11:08	08/10/21 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.0**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 2 (2)

Lab Sample ID: 410-50151-19

Date Collected: 08/04/21 11:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	*3	2.3	0.18	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
1,2-Dichloroethane	ND	*3	2.3	0.28	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1

Client Sample ID: Pipe 2 (2)

Lab Sample ID: 410-50151-19

Date Collected: 08/04/21 11:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND	*3	2.3	0.23	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
Toluene	ND	*3	2.3	0.28	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
Xylenes, Total	ND	*3	4.6	0.64	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
Methyl tertiary butyl ether	ND	*3	2.3	0.23	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
Benzene	ND	*3	2.3	0.23	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
Naphthalene	ND	*3	2.3	0.92	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
1,2,4-Trimethylbenzene	ND	*3	2.3	0.23	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
Isopropylbenzene	ND	*3	2.3	0.18	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
1,2-Dibromoethane	ND	*3	2.3	0.18	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*	*3*	*54 - 135*	*08/06/21 13:58*	*08/09/21 18:33*	*1*
4-Bromofluorobenzene (Surr)	*78*	*3*	*50 - 131*	*08/06/21 13:58*	*08/09/21 18:33*	*1*
Dibromofluoromethane (Surr)	*103*	*3*	*50 - 141*	*08/06/21 13:58*	*08/09/21 18:33*	*1*
Toluene-d8 (Surr)	*93*	*3*	*52 - 141*	*08/06/21 13:58*	*08/09/21 18:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**30**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Benzo[a]anthracene	**250**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Benzo[a]pyrene	**220**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Benzo[b]fluoranthene	**370**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Benzo[g,h,i]perylene	**180**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Chrysene	**300**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Fluorene	**12**	**J**	19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Phenanthrene	**97**		19	4.5	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Pyrene	**410**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/13/21 09:46*	*08/14/21 04:48*	*1*
Nitrobenzene-d5 (Surr)	*70*		*32 - 97*	*08/13/21 09:46*	*08/14/21 04:48*	*1*
p-Terphenyl-d14 (Surr)	*93*		*45 - 108*	*08/13/21 09:46*	*08/14/21 04:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**25**		1.2	0.49	mg/Kg	☼	08/06/21 11:08	08/10/21 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 3 (2)

Lab Sample ID: 410-50151-20

Date Collected: 08/04/21 11:15
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 76.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.8	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
1,2-Dichloroethane	ND		5.8	0.69	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
1,3,5-Trimethylbenzene	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
Toluene	ND		5.8	0.69	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1

Client Sample ID: Pipe 3 (2)

Date Collected: 08/04/21 11:15
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-20

Matrix: Solid
Percent Solids: 76.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		12	1.6	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
Methyl tertiary butyl ether	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
Benzene	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
Naphthalene	ND		5.8	2.3	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
1,2,4-Trimethylbenzene	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
Isopropylbenzene	ND		5.8	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
1,2-Dibromoethane	ND		5.8	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/06/21 13:58*	*08/09/21 16:17*	*1*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*	*08/06/21 13:58*	*08/09/21 16:17*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/06/21 13:58*	*08/09/21 16:17*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/06/21 13:58*	*08/09/21 16:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Benzo[a]anthracene	ND		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Benzo[a]pyrene	ND		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Benzo[b]fluoranthene	ND		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Benzo[g,h,i]perylene	ND		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Chrysene	**5.6**	**J**	22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Fluorene	ND		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Phenanthrene	ND		22	5.2	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Pyrene	**51**		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*39 - 100*	*08/13/21 09:46*	*08/14/21 05:11*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 09:46*	*08/14/21 05:11*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*08/13/21 09:46*	*08/14/21 05:11*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**19**		1.4	0.56	mg/Kg	☼	08/06/21 11:08	08/10/21 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.1**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 5 (2)

Date Collected: 08/04/21 11:20
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-21

Matrix: Solid
Percent Solids: 89.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		330	26	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
1,2-Dichloroethane	ND		330	39	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
1,3,5-Trimethylbenzene	ND		330	33	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
Toluene	ND		330	39	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
Xylenes, Total	ND		650	91	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
Methyl tertiary butyl ether	ND		330	33	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50

Client Sample ID: Pipe 5 (2)

Lab Sample ID: 410-50151-21
Date Collected: 08/04/21 11:20
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 89.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		330	33	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
Naphthalene	ND		330	130	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
1,2,4-Trimethylbenzene	ND		330	33	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
Isopropylbenzene	ND		330	26	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
1,2-Dibromoethane	ND		330	26	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*	*08/06/21 13:30*	*08/10/21 01:12*	*50*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/06/21 13:30*	*08/10/21 01:12*	*50*
Dibromofluoromethane (Surr)	*100*		*50 - 141*	*08/06/21 13:30*	*08/10/21 01:12*	*50*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/06/21 13:30*	*08/10/21 01:12*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Benzo[a]anthracene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Benzo[a]pyrene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Benzo[b]fluoranthene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Benzo[g,h,i]perylene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Chrysene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Fluorene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Phenanthrene	ND		19	4.4	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Pyrene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/13/21 09:46*	*08/14/21 05:34*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*08/13/21 09:46*	*08/14/21 05:34*	*1*
p-Terphenyl-d14 (Surr)	*97*		*45 - 108*	*08/13/21 09:46*	*08/14/21 05:34*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**		1.5	0.61	mg/Kg	☼	08/06/21 11:08	08/10/21 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.0**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 7 (2)

Lab Sample ID: 410-50151-22
Date Collected: 08/04/21 11:30
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**20000**		340	27	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
1,2-Dichloroethane	ND		340	41	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
1,3,5-Trimethylbenzene	**3100**		340	34	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
Toluene	**99**	**J**	340	41	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
Xylenes, Total	**21000**		680	95	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
Methyl tertiary butyl ether	ND		340	34	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
Benzene	**58**	**J**	340	34	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
Naphthalene	**11000**		340	140	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50

Client Sample ID: Pipe 7 (2)

Lab Sample ID: 410-50151-22

Date Collected: 08/04/21 11:30
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	**7300**		340	27	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
1,2-Dibromoethane	ND		340	27	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*54 - 135*	*08/06/21 14:43*	*08/10/21 01:33*	*50*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*	*08/06/21 14:43*	*08/10/21 01:33*	*50*
Dibromofluoromethane (Surr)	*93*		*50 - 141*	*08/06/21 14:43*	*08/10/21 01:33*	*50*
Toluene-d8 (Surr)	*117*		*52 - 141*	*08/06/21 14:43*	*08/10/21 01:33*	*50*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**150000**		6800	680	ug/Kg	☼	08/06/21 14:43	08/10/21 14:04	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*54 - 135*	*08/06/21 14:43*	*08/10/21 14:04*	*1000*
4-Bromofluorobenzene (Surr)	*104*		*50 - 131*	*08/06/21 14:43*	*08/10/21 14:04*	*1000*
Dibromofluoromethane (Surr)	*78*		*50 - 141*	*08/06/21 14:43*	*08/10/21 14:04*	*1000*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/06/21 14:43*	*08/10/21 14:04*	*1000*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Benzo[a]anthracene	**8.3**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Benzo[a]pyrene	ND		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Benzo[b]fluoranthene	ND		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Benzo[g,h,i]perylene	ND		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Chrysene	**13**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Fluorene	**1100**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Phenanthrene	**1900**		19	4.6	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Pyrene	**200**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*	*08/10/21 17:56*	*08/11/21 11:55*	*1*
Nitrobenzene-d5 (Surr)	*80*		*32 - 97*	*08/10/21 17:56*	*08/11/21 11:55*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/10/21 17:56*	*08/11/21 11:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**9.3**		1.3	0.53	mg/Kg	☼	08/06/21 11:08	08/10/21 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.2**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 8 (2)

Lab Sample ID: 410-50151-23

Date Collected: 08/04/21 11:40
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 87.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		340	40	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
1,3,5-Trimethylbenzene	**9400**		340	34	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50

Client Sample ID: Pipe 8 (2)
Date Collected: 08/04/21 11:40
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-23
Matrix: Solid
Percent Solids: 87.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	97	J	340	40	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
Xylenes, Total	23000		670	94	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
Methyl tertiary butyl ether	ND		340	34	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
Benzene	37	J	340	34	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
Naphthalene	11000		340	130	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
Isopropylbenzene	6300		340	27	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
1,2-Dibromoethane	ND		340	27	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*08/06/21 14:43*	*08/10/21 01:53*	*50*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/06/21 14:43*	*08/10/21 01:53*	*50*
Dibromofluoromethane (Surr)	*82*		*50 - 141*	*08/06/21 14:43*	*08/10/21 01:53*	*50*
Toluene-d8 (Surr)	*101*		*52 - 141*	*08/06/21 14:43*	*08/10/21 01:53*	*50*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	44000		6700	540	ug/Kg	☼	08/06/21 14:43	08/10/21 14:26	1000
1,2,4-Trimethylbenzene	150000		6700	670	ug/Kg	☼	08/06/21 14:43	08/10/21 14:26	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*54 - 135*	*08/06/21 14:43*	*08/10/21 14:26*	*1000*
4-Bromofluorobenzene (Surr)	*107*		*50 - 131*	*08/06/21 14:43*	*08/10/21 14:26*	*1000*
Dibromofluoromethane (Surr)	*81*		*50 - 141*	*08/06/21 14:43*	*08/10/21 14:26*	*1000*
Toluene-d8 (Surr)	*104*		*52 - 141*	*08/06/21 14:43*	*08/10/21 14:26*	*1000*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	450	FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Benzo[a]anthracene	9.9	J FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Benzo[a]pyrene	4.2	J FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Benzo[b]fluoranthene	4.1	J FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Benzo[g,h,i]perylene	ND	FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Chrysene	16	J FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Fluorene	1500	FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Phenanthrene	3400	FL F2	19	4.6	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Pyrene	310	FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*39 - 100*	*08/10/21 09:43*	*08/12/21 01:05*	*1*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*	*08/10/21 09:43*	*08/12/21 01:05*	*1*
p-Terphenyl-d14 (Surr)	*75*		*45 - 108*	*08/10/21 09:43*	*08/12/21 01:05*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		1.4	0.57	mg/Kg	☼	08/06/21 10:20	08/10/21 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 6 (2)

Lab Sample ID: 410-50151-24

Date Collected: 08/04/21 11:50
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 84.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.9	0.47	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
1,2-Dichloroethane	ND		5.9	0.71	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
1,3,5-Trimethylbenzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
Toluene	ND		5.9	0.71	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
Xylenes, Total	ND		12	1.7	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
Methyl tertiary butyl ether	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
Benzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
Naphthalene	ND		5.9	2.4	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
1,2,4-Trimethylbenzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
Isopropylbenzene	ND		5.9	0.47	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
1,2-Dibromoethane	ND		5.9	0.47	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/06/21 14:36*	*08/09/21 18:55*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/06/21 14:36*	*08/09/21 18:55*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*	*08/06/21 14:36*	*08/09/21 18:55*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/06/21 14:36*	*08/09/21 18:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Benzo[a]anthracene	**8.9**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Benzo[a]pyrene	**11**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Benzo[b]fluoranthene	**14**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Benzo[g,h,i]perylene	**8.4**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Chrysene	**11**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Fluorene	ND		19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Phenanthrene	**16**	**J**	19	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Pyrene	**17**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*08/10/21 09:43*	*08/12/21 02:12*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/10/21 09:43*	*08/12/21 02:12*	*1*
p-Terphenyl-d14 (Surr)	*81*		*45 - 108*	*08/10/21 09:43*	*08/12/21 02:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		1.5	0.58	mg/Kg	☼	08/06/21 11:08	08/10/21 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.2**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 10 (2)

Lab Sample ID: 410-50151-25

Date Collected: 08/04/21 12:30
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 87.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**4600**		320	26	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
1,2-Dichloroethane	ND		320	39	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50

Client Sample ID: Pipe 10 (2)

Lab Sample ID: 410-50151-25

Date Collected: 08/04/21 12:30
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 87.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	69	J	320	32	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
Toluene	43	J	320	39	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
Xylenes, Total	140	J	650	91	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
Methyl tertiary butyl ether	ND		320	32	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
Benzene	ND		320	32	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
Naphthalene	230	J	320	130	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
1,2,4-Trimethylbenzene	810		320	32	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
Isopropylbenzene	4300		320	26	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
1,2-Dibromoethane	ND		320	26	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*	*08/06/21 13:30*	*08/10/21 02:14*	*50*
4-Bromofluorobenzene (Surr)	*74*		*50 - 131*	*08/06/21 13:30*	*08/10/21 02:14*	*50*
Dibromofluoromethane (Surr)	*96*		*50 - 141*	*08/06/21 13:30*	*08/10/21 02:14*	*50*
Toluene-d8 (Surr)	*87*		*52 - 141*	*08/06/21 13:30*	*08/10/21 02:14*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	360		19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Benzo[a]anthracene	8.2	J	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Benzo[a]pyrene	5.4	J	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Benzo[b]fluoranthene	4.8	J	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Benzo[g,h,i]perylene	4.5	J	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Chrysene	15	J	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Fluorene	1700		19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Phenanthrene	2500		19	4.6	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Pyrene	230		19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*39 - 100*	*08/10/21 09:43*	*08/12/21 02:35*	*1*
Nitrobenzene-d5 (Surr)	*55*		*32 - 97*	*08/10/21 09:43*	*08/12/21 02:35*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*	*08/10/21 09:43*	*08/12/21 02:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	32		1.4	0.57	mg/Kg	☼	08/06/21 10:20	08/10/21 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.6		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 9 (2)

Lab Sample ID: 410-50151-26

Date Collected: 08/04/21 12:15
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5600		290	23	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
1,2-Dichloroethane	ND		290	35	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
1,3,5-Trimethylbenzene	84	J	290	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
Toluene	ND		290	35	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50

Client Sample ID: Pipe 9 (2)

Lab Sample ID: 410-50151-26

Date Collected: 08/04/21 12:15
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**360**	**J**	580	81	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
Methyl tertiary butyl ether	ND		290	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
Benzene	ND		290	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
Naphthalene	**2500**		290	120	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
1,2,4-Trimethylbenzene	**260**	**J**	290	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
Isopropylbenzene	**2100**		290	23	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
1,2-Dibromoethane	ND		290	23	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*	*08/06/21 13:30*	*08/10/21 02:35*	*50*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/06/21 13:30*	*08/10/21 02:35*	*50*
Dibromofluoromethane (Surr)	*97*		*50 - 141*	*08/06/21 13:30*	*08/10/21 02:35*	*50*
Toluene-d8 (Surr)	*85*		*52 - 141*	*08/06/21 13:30*	*08/10/21 02:35*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**230**		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Benzo[a]anthracene	**14**	**J**	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Benzo[a]pyrene	**12**	**J**	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Benzo[b]fluoranthene	**14**	**J**	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Benzo[g,h,i]perylene	**11**	**J**	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Chrysene	**19**		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Fluorene	**870**		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Phenanthrene	**1400**		18	4.4	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Pyrene	**140**		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*39 - 100*	*08/10/21 09:43*	*08/12/21 02:57*	*1*
Nitrobenzene-d5 (Surr)	*56*		*32 - 97*	*08/10/21 09:43*	*08/12/21 02:57*	*1*
p-Terphenyl-d14 (Surr)	*73*		*45 - 108*	*08/10/21 09:43*	*08/12/21 02:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**15**		1.4	0.55	mg/Kg	☼	08/06/21 10:20	08/10/21 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.0**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 12 (2)

Lab Sample ID: 410-50151-27

Date Collected: 08/04/21 12:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 87.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**320**	**J**	360	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
1,2-Dichloroethane	ND		360	44	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
1,3,5-Trimethylbenzene	**1100**		360	36	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
Toluene	ND		360	44	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
Xylenes, Total	**940**		730	100	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
Methyl tertiary butyl ether	ND		360	36	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50

Client Sample ID: Pipe 12 (2)

Lab Sample ID: 410-50151-27

Date Collected: 08/04/21 12:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 87.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		360	36	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
Naphthalene	**1200**		360	150	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
1,2,4-Trimethylbenzene	**2700**		360	36	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
Isopropylbenzene	**260**	**J**	360	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
1,2-Dibromoethane	ND		360	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*	*08/06/21 13:30*	*08/10/21 02:56*	*50*
4-Bromofluorobenzene (Surr)	*100*		*50 - 131*	*08/06/21 13:30*	*08/10/21 02:56*	*50*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/06/21 13:30*	*08/10/21 02:56*	*50*
Toluene-d8 (Surr)	*85*		*52 - 141*	*08/06/21 13:30*	*08/10/21 02:56*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**220**		19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Benzo[a]anthracene	**8.9**	**J**	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Benzo[a]pyrene	**11**	**J**	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Benzo[b]fluoranthene	**17**	**J**	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Benzo[g,h,i]perylene	**11**	**J**	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Chrysene	**17**	**J**	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Fluorene	**540**		19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Phenanthrene	**410**		19	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Pyrene	**330**		19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*08/10/21 09:43*	*08/12/21 03:20*	*1*
Nitrobenzene-d5 (Surr)	*70*		*32 - 97*	*08/10/21 09:43*	*08/12/21 03:20*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/10/21 09:43*	*08/12/21 03:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		1.3	0.53	mg/Kg	☼	08/06/21 10:20	08/10/21 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.8**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 13 (2)

Lab Sample ID: 410-50151-28

Date Collected: 08/04/21 13:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**2300**		310	25	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
1,2-Dichloroethane	ND		310	37	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
1,3,5-Trimethylbenzene	ND		310	31	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
Toluene	ND		310	37	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
Xylenes, Total	ND		620	87	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
Methyl tertiary butyl ether	ND		310	31	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
Benzene	ND		310	31	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
Naphthalene	**2900**		310	120	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50

Client Sample ID: Pipe 13 (2)

Lab Sample ID: 410-50151-28
Date Collected: 08/04/21 13:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	90	J	310	31	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
Isopropylbenzene	3600		310	25	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
1,2-Dibromoethane	ND		310	25	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*	*08/06/21 13:30*	*08/10/21 03:16*	*50*
4-Bromofluorobenzene (Surr)	*125*		*50 - 131*	*08/06/21 13:30*	*08/10/21 03:16*	*50*
Dibromofluoromethane (Surr)	*99*		*50 - 141*	*08/06/21 13:30*	*08/10/21 03:16*	*50*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/06/21 13:30*	*08/10/21 03:16*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	190		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Benzo[a]anthracene	6.2	J	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Benzo[a]pyrene	3.7	J	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Benzo[b]fluoranthene	ND		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Benzo[g,h,i]perylene	5.5	J	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Chrysene	11	J	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Fluorene	780		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Phenanthrene	1300		18	4.4	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Pyrene	180		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/10/21 09:43*	*08/12/21 03:42*	*1*
Nitrobenzene-d5 (Surr)	*83*		*32 - 97*	*08/10/21 09:43*	*08/12/21 03:42*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*08/10/21 09:43*	*08/12/21 03:42*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		1.2	0.49	mg/Kg	☼	08/06/21 10:20	08/10/21 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 17 (2)

Lab Sample ID: 410-50151-29
Date Collected: 08/04/21 13:20
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		270	21	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
1,2-Dichloroethane	ND		270	32	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
1,3,5-Trimethylbenzene	ND		270	27	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
Toluene	ND		270	32	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
Xylenes, Total	ND		540	75	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
Methyl tertiary butyl ether	ND		270	27	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
Benzene	ND		270	27	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
Naphthalene	ND		270	110	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
1,2,4-Trimethylbenzene	27	J	270	27	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
Isopropylbenzene	ND		270	21	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50

Client Sample ID: Pipe 17 (2)

Lab Sample ID: 410-50151-29
Date Collected: 08/04/21 13:20
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		270	21	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*54 - 135*	*08/06/21 13:30*	*08/10/21 03:37*	*50*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*08/06/21 13:30*	*08/10/21 03:37*	*50*
Dibromofluoromethane (Surr)	*101*		*50 - 141*	*08/06/21 13:30*	*08/10/21 03:37*	*50*
Toluene-d8 (Surr)	*82*		*52 - 141*	*08/06/21 13:30*	*08/10/21 03:37*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**11**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Benzo[a]anthracene	**16**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Benzo[a]pyrene	**15**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Benzo[b]fluoranthene	**23**		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Benzo[g,h,i]perylene	**14**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Chrysene	**26**		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Fluorene	**11**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Phenanthrene	**31**		20	4.8	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Pyrene	**22**		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/10/21 09:43*	*08/12/21 04:05*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/10/21 09:43*	*08/12/21 04:05*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/10/21 09:43*	*08/12/21 04:05*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**16**		1.7	0.66	mg/Kg	☼	08/06/21 10:20	08/10/21 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.2**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 16 (2)

Lab Sample ID: 410-50151-30
Date Collected: 08/04/21 14:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 82.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.7	0.46	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
1,2-Dichloroethane	ND		5.7	0.69	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
1,3,5-Trimethylbenzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
Toluene	ND		5.7	0.69	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
Xylenes, Total	ND		11	1.6	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
Methyl tertiary butyl ether	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
Benzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
Naphthalene	ND		5.7	2.3	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
1,2,4-Trimethylbenzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
Isopropylbenzene	ND		5.7	0.46	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
1,2-Dibromoethane	ND		5.7	0.46	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1

Client Sample ID: Pipe 16 (2)

Lab Sample ID: 410-50151-30

Date Collected: 08/04/21 14:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 82.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*54 - 135*	*08/06/21 13:58*	*08/10/21 12:28*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/06/21 13:58*	*08/10/21 12:28*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/06/21 13:58*	*08/10/21 12:28*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 13:58*	*08/10/21 12:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Benzo[a]anthracene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Benzo[a]pyrene	**4.5**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Benzo[b]fluoranthene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Benzo[g,h,i]perylene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Chrysene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Fluorene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Phenanthrene	ND		20	4.8	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Pyrene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*	*08/10/21 09:43*	*08/12/21 04:27*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/10/21 09:43*	*08/12/21 04:27*	*1*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*	*08/10/21 09:43*	*08/12/21 04:27*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.0**		1.4	0.54	mg/Kg	☼	08/06/21 10:20	08/10/21 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.7**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 60 (2)

Lab Sample ID: 410-50151-31

Date Collected: 08/05/21 12:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 79.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.9	0.55	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
1,2-Dichloroethane	ND		6.9	0.82	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
1,3,5-Trimethylbenzene	ND		6.9	0.69	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
Toluene	**3.9**	**J**	6.9	0.82	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
Xylenes, Total	**3.8**	**J**	14	1.9	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
Methyl tertiary butyl ether	ND		6.9	0.69	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
Benzene	**2.0**	**J**	6.9	0.69	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
Naphthalene	**5.0**	**J**	6.9	2.7	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
1,2,4-Trimethylbenzene	ND		6.9	0.69	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
Isopropylbenzene	ND		6.9	0.55	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
1,2-Dibromoethane	ND		6.9	0.55	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/06/21 13:58*	*08/10/21 12:50*	*1*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/06/21 13:58*	*08/10/21 12:50*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/06/21 13:58*	*08/10/21 12:50*	*1*

Client Sample ID: Pipe 60 (2)

Lab Sample ID: 410-50151-31

Date Collected: 08/05/21 12:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 79.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/06/21 13:58*	*08/10/21 12:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**130**		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Benzo[a]anthracene	**10**	**J**	21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Benzo[a]pyrene	**10**	**J**	21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Benzo[b]fluoranthene	**13**	**J**	21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Benzo[g,h,i]perylene	**8.5**	**J**	21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Chrysene	**23**		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Phenanthrene	**110**		21	5.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Pyrene	**22**		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*76*		*39 - 100*	*08/10/21 09:43*	*08/12/21 04:50*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/10/21 09:43*	*08/12/21 04:50*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/10/21 09:43*	*08/12/21 04:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**190**		1.3	0.53	mg/Kg	☼	08/06/21 11:08	08/10/21 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.4**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-50151-32

Date Collected: 08/04/21 00:00
Matrix: Water
Date Received: 08/05/21 16:02

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/10/21 20:31	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/10/21 20:31	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/10/21 20:31	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:31	1
Toluene	ND		1.0	0.30	ug/L			08/10/21 20:31	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/10/21 20:31	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/10/21 20:31	1
Benzene	ND		1.0	0.30	ug/L			08/10/21 20:31	1
Naphthalene	ND		5.0	1.0	ug/L			08/10/21 20:31	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/10/21 20:31	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*08/10/21 20:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/10/21 20:31*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*08/10/21 20:31*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/10/21 20:31*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-50151-1	4847-P6 (3)	114	87	102	93
410-50151-2	Pipe 15 (2)	117	86	103	92
410-50151-3	4847-P2 (3)	118	87	103	90
410-50151-4	4847-P1 (3)	119	88	105	91
410-50151-5	4847-P3 (3)	122	88	106	92
410-50151-6	1043-P3 (3)	117	78	108	100
410-50151-7	DUP-2	117	76	106	102
410-50151-8	Pipe 61 (2)	119	86	104	92
410-50151-9	1043-P2 (3)	116	78	104	100
410-50151-10	Pipe 11 (2)	117	91	103	92
410-50151-11	1248-P5 (3)	85	84	85	82
410-50151-12	Pipe 14 (2)	112	93	101	91
410-50151-13	1248-P4 (3)	119	88	106	93
410-50151-14	1248-P3 (3)	107	84	98	96
410-50151-15	1248-P2 (3)	118	88	105	92
410-50151-16	DUP-1	120	86	107	92
410-50151-17	Pipe 1 (2)	120	89	103	91
410-50151-18	1248-P1 (3)	116	91	106	91
410-50151-19	Pipe 2 (2)	116 *3	78 *3	103 *3	93 *3
410-50151-20	Pipe 3 (2)	111	84	105	97
410-50151-21	Pipe 5 (2)	103	89	100	96
410-50151-22	Pipe 7 (2)	97	98	93	117
410-50151-22 - DL	Pipe 7 (2)	80	104	78	96
410-50151-23	Pipe 8 (2)	104	91	82	101
410-50151-23 - DL	Pipe 8 (2)	93	107	81	104
410-50151-24	Pipe 6 (2)	112	87	100	96
410-50151-25	Pipe 10 (2)	101	74	96	87
410-50151-26	Pipe 9 (2)	103	93	97	85
410-50151-27	Pipe 12 (2)	108	100	103	85
410-50151-28	Pipe 13 (2)	105	125	99	98
410-50151-29	Pipe 17 (2)	90	96	101	82
410-50151-30	Pipe 16 (2)	119	87	103	92
410-50151-31	Pipe 60 (2)	113	82	102	98
LCS 410-158050/4	Lab Control Sample	106	94	96	97
LCS 410-158385/4	Lab Control Sample	102	89	99	92
LCS 410-158503/5	Lab Control Sample	90	98	93	98
LCS 410-158553/4	Lab Control Sample	108	95	97	97
LCSD 410-158050/5	Lab Control Sample Dup	108	93	98	97
LCSD 410-158385/5	Lab Control Sample Dup	102	88	98	91
LCSD 410-158503/6	Lab Control Sample Dup	89	98	92	99
LCSD 410-158553/5	Lab Control Sample Dup	103	94	95	97
MB 410-158050/7	Method Blank	107	88	100	92
MB 410-158385/7	Method Blank	102	88	99	95
MB 410-158503/10	Method Blank	95	98	92	98
MB 410-158553/7	Method Blank	108	87	100	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Job ID: 410-50151-1
Project/Site: PBF Logistics

TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-50151-32	Trip Blank	98	101	107	97
LCS 410-158775/4	Lab Control Sample	100	102	105	98
LCSD 410-158775/5	Lab Control Sample Dup	100	101	104	97
MB 410-158775/6	Method Blank	97	101	105	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-50151-1	4847-P6 (3)	16 S1-	35	5 S1-
410-50151-2	Pipe 15 (2)	84	71	84
410-50151-3	4847-P2 (3)	90	76	87
410-50151-4	4847-P1 (3)	89	76	89
410-50151-5	4847-P3 (3)	89	77	89
410-50151-6	1043-P3 (3)	83	64	76
410-50151-7	DUP-2	4 S1-	1 S1-	24 S1-
410-50151-8	Pipe 61 (2)	83	74	85
410-50151-9	1043-P2 (3)	82	69	82
410-50151-10	Pipe 11 (2)	85	73	96
410-50151-10 MS	Pipe 11 (2)	72	62	94
410-50151-10 MSD	Pipe 11 (2)	79	71	94
410-50151-11	1248-P5 (3)	71	63	85
410-50151-12	Pipe 14 (2)	83	74	95
410-50151-13	1248-P4 (3)	87	72	100
410-50151-14	1248-P3 (3)	89	77	103
410-50151-15	1248-P2 (3)	80	67	103
410-50151-16	DUP-1	86	71	101
410-50151-17	Pipe 1 (2)	88	77	102
410-50151-18	1248-P1 (3)	86	75	101
410-50151-19	Pipe 2 (2)	81	70	93
410-50151-20	Pipe 3 (2)	70	64	89
410-50151-21	Pipe 5 (2)	84	74	97
410-50151-22	Pipe 7 (2)	72	80	86
410-50151-23	Pipe 8 (2)	54	61	75
410-50151-23 MS	Pipe 8 (2)	45	51	56
410-50151-23 MSD	Pipe 8 (2)	81	72	79
410-50151-24	Pipe 6 (2)	86	73	81
410-50151-25	Pipe 10 (2)	69	55	78
410-50151-26	Pipe 9 (2)	63	56	73
410-50151-27	Pipe 12 (2)	74	70	80
410-50151-28	Pipe 13 (2)	83	83	84

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 410-50151-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-50151-29	Pipe 17 (2)	89	73	87
410-50151-30	Pipe 16 (2)	87	71	88
410-50151-31	Pipe 60 (2)	76	64	80
LCS 410-158484/2-A	Lab Control Sample	76	67	88
LCS 410-158764/2-A	Lab Control Sample	98	79	92
LCS 410-159833/2-A	Lab Control Sample	93	74	92
LCS 410-160040/2-A	Lab Control Sample	77	68	88
MB 410-158484/1-A	Method Blank	83	75	97
MB 410-158764/1-A	Method Blank	91	79	94
MB 410-159833/1-A	Method Blank	87	69	90
MB 410-160040/1-A	Method Blank	81	72	102

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-158050/7
Matrix: Solid
Analysis Batch: 158050

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/09/21 11:04	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/09/21 11:04	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/09/21 11:04	1
Toluene	ND		5.0	0.60	ug/Kg			08/09/21 11:04	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/09/21 11:04	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/09/21 11:04	1
Benzene	ND		5.0	0.50	ug/Kg			08/09/21 11:04	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/09/21 11:04	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/09/21 11:04	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/09/21 11:04	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/09/21 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*		*08/09/21 11:04*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*		*08/09/21 11:04*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*		*08/09/21 11:04*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*		*08/09/21 11:04*	*1*

Lab Sample ID: LCS 410-158050/4
Matrix: Solid
Analysis Batch: 158050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	17.2		ug/Kg		86	78 - 120
1,2-Dichloroethane	20.0	16.4		ug/Kg		82	71 - 128
1,3,5-Trimethylbenzene	20.0	16.8		ug/Kg		84	73 - 120
Toluene	20.0	16.2		ug/Kg		81	80 - 120
Xylenes, Total	60.0	48.0		ug/Kg		80	75 - 120
Methyl tertiary butyl ether	20.0	15.3		ug/Kg		77	72 - 120
Benzene	20.0	18.1		ug/Kg		90	80 - 120
Naphthalene	20.0	14.6		ug/Kg		73	48 - 130
1,2,4-Trimethylbenzene	20.0	16.9		ug/Kg		84	73 - 120
Isopropylbenzene	20.0	15.5		ug/Kg		78	77 - 120
1,2-Dibromoethane	20.0	16.6		ug/Kg		83	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*96*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: LCSD 410-158050/5
Matrix: Solid
Analysis Batch: 158050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	17.4		ug/Kg		87	78 - 120	1	30
1,2-Dichloroethane	20.0	16.4		ug/Kg		82	71 - 128	0	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-158050/5
Matrix: Solid
Analysis Batch: 158050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	16.8		ug/Kg		84	73 - 120	0	30
Toluene			20.0	16.5		ug/Kg		83	80 - 120	2	30
Xylenes, Total			60.0	48.7		ug/Kg		81	75 - 120	1	30
Methyl tertiary butyl ether			20.0	16.2		ug/Kg		81	72 - 120	5	30
Benzene			20.0	18.6		ug/Kg		93	80 - 120	3	30
Naphthalene			20.0	15.4		ug/Kg		77	48 - 130	6	30
1,2,4-Trimethylbenzene			20.0	16.8		ug/Kg		84	73 - 120	0	30
Isopropylbenzene			20.0	15.7		ug/Kg		79	77 - 120	1	30
1,2-Dibromoethane			20.0	17.6		ug/Kg		88	76 - 120	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*
Dibromofluoromethane (Surr)	*98*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: MB 410-158385/7
Matrix: Solid
Analysis Batch: 158385

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/09/21 23:20	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/09/21 23:20	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/09/21 23:20	50
Toluene	ND		250	30	ug/Kg			08/09/21 23:20	50
Xylenes, Total	ND		500	70	ug/Kg			08/09/21 23:20	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/09/21 23:20	50
Benzene	ND		250	25	ug/Kg			08/09/21 23:20	50
Naphthalene	ND		250	100	ug/Kg			08/09/21 23:20	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/09/21 23:20	50
Isopropylbenzene	ND		250	20	ug/Kg			08/09/21 23:20	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/09/21 23:20	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*		*08/09/21 23:20*	*50*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*		*08/09/21 23:20*	*50*
Dibromofluoromethane (Surr)	*99*		*50 - 141*		*08/09/21 23:20*	*50*
Toluene-d8 (Surr)	*95*		*52 - 141*		*08/09/21 23:20*	*50*

Lab Sample ID: LCS 410-158385/4
Matrix: Solid
Analysis Batch: 158385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	928		ug/Kg		93	78 - 120
1,2-Dichloroethane			1000	920		ug/Kg		92	71 - 128
1,3,5-Trimethylbenzene			1000	865		ug/Kg		86	73 - 120
Toluene			1000	950		ug/Kg		95	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-158385/4
Matrix: Solid
Analysis Batch: 158385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	3000	2890		ug/Kg		96	75 - 120
Methyl tertiary butyl ether	1000	936		ug/Kg		94	72 - 120
Benzene	1000	985		ug/Kg		99	80 - 120
Naphthalene	1000	897		ug/Kg		90	48 - 130
1,2,4-Trimethylbenzene	1000	858		ug/Kg		86	73 - 120
Isopropylbenzene	1000	947		ug/Kg		95	77 - 120
1,2-Dibromoethane	1000	988		ug/Kg		99	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: LCSD 410-158385/5
Matrix: Solid
Analysis Batch: 158385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	1000	912		ug/Kg		91	78 - 120	2	30
1,2-Dichloroethane	1000	920		ug/Kg		92	71 - 128	0	30
1,3,5-Trimethylbenzene	1000	844		ug/Kg		84	73 - 120	2	30
Toluene	1000	937		ug/Kg		94	80 - 120	1	30
Xylenes, Total	3000	2840		ug/Kg		95	75 - 120	2	30
Methyl tertiary butyl ether	1000	926		ug/Kg		93	72 - 120	1	30
Benzene	1000	970		ug/Kg		97	80 - 120	2	30
Naphthalene	1000	875		ug/Kg		88	48 - 130	2	30
1,2,4-Trimethylbenzene	1000	850		ug/Kg		85	73 - 120	1	30
Isopropylbenzene	1000	930		ug/Kg		93	77 - 120	2	30
1,2-Dibromoethane	1000	971		ug/Kg		97	76 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*
Dibromofluoromethane (Surr)	*98*		*50 - 141*
Toluene-d8 (Surr)	*91*		*52 - 141*

Lab Sample ID: MB 410-158503/10
Matrix: Solid
Analysis Batch: 158503

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/10/21 12:11	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/10/21 12:11	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/10/21 12:11	50
Toluene	ND		250	30	ug/Kg			08/10/21 12:11	50
Xylenes, Total	ND		500	70	ug/Kg			08/10/21 12:11	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/10/21 12:11	50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-158503/10
Matrix: Solid
Analysis Batch: 158503

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		250	25	ug/Kg			08/10/21 12:11	50
Naphthalene	ND		250	100	ug/Kg			08/10/21 12:11	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/10/21 12:11	50
Isopropylbenzene	ND		250	20	ug/Kg			08/10/21 12:11	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/10/21 12:11	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*54 - 135*		*08/10/21 12:11*	*50*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*		*08/10/21 12:11*	*50*
Dibromofluoromethane (Surr)	*92*		*50 - 141*		*08/10/21 12:11*	*50*
Toluene-d8 (Surr)	*98*		*52 - 141*		*08/10/21 12:11*	*50*

Lab Sample ID: LCS 410-158503/5
Matrix: Solid
Analysis Batch: 158503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	989		ug/Kg		99	78 - 120		
1,2-Dichloroethane			1000	927		ug/Kg		93	71 - 128		
1,3,5-Trimethylbenzene			1000	1020		ug/Kg		102	73 - 120		
Toluene			1000	986		ug/Kg		99	80 - 120		
Xylenes, Total			3000	2930		ug/Kg		98	75 - 120		
Methyl tertiary butyl ether			1000	945		ug/Kg		95	72 - 120		
Benzene			1000	919		ug/Kg		92	80 - 120		
Naphthalene			1000	752		ug/Kg		75	48 - 130		
1,2,4-Trimethylbenzene			1000	1010		ug/Kg		101	73 - 120		
Isopropylbenzene			1000	997		ug/Kg		100	77 - 120		
1,2-Dibromoethane			1000	971		ug/Kg		97	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*93*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: LCSD 410-158503/6
Matrix: Solid
Analysis Batch: 158503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	998		ug/Kg		100	78 - 120	1	30
1,2-Dichloroethane			1000	911		ug/Kg		91	71 - 128	2	30
1,3,5-Trimethylbenzene			1000	1020		ug/Kg		102	73 - 120	0	30
Toluene			1000	992		ug/Kg		99	80 - 120	1	30
Xylenes, Total			3000	2950		ug/Kg		98	75 - 120	1	30
Methyl tertiary butyl ether			1000	928		ug/Kg		93	72 - 120	2	30
Benzene			1000	925		ug/Kg		93	80 - 120	1	30
Naphthalene			1000	836		ug/Kg		84	48 - 130	11	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-158503/6
Matrix: Solid
Analysis Batch: 158503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			1000	1020		ug/Kg		102	73 - 120	1	30
Isopropylbenzene			1000	1020		ug/Kg		102	77 - 120	2	30
1,2-Dibromoethane			1000	969		ug/Kg		97	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*92*		*50 - 141*
Toluene-d8 (Surr)	*99*		*52 - 141*

Lab Sample ID: MB 410-158553/7
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/10/21 11:44	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/10/21 11:44	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Toluene	ND		5.0	0.60	ug/Kg			08/10/21 11:44	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/10/21 11:44	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Benzene	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/10/21 11:44	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/10/21 11:44	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/10/21 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*		*08/10/21 11:44*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*		*08/10/21 11:44*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*		*08/10/21 11:44*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*		*08/10/21 11:44*	*1*

Lab Sample ID: LCS 410-158553/4
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			20.0	18.9		ug/Kg		95	78 - 120
1,2-Dichloroethane			20.0	16.5		ug/Kg		83	71 - 128
1,3,5-Trimethylbenzene			20.0	17.9		ug/Kg		89	73 - 120
Toluene			20.0	17.4		ug/Kg		87	80 - 120
Xylenes, Total			60.0	51.9		ug/Kg		87	75 - 120
Methyl tertiary butyl ether			20.0	16.8		ug/Kg		84	72 - 120
Benzene			20.0	19.8		ug/Kg		99	80 - 120
Naphthalene			20.0	15.4		ug/Kg		77	48 - 130
1,2,4-Trimethylbenzene			20.0	17.8		ug/Kg		89	73 - 120
Isopropylbenzene			20.0	16.9		ug/Kg		85	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-158553/4
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	17.6		ug/Kg		88	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: LCSD 410-158553/5
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.8		ug/Kg		94	78 - 120	0	30
1,2-Dichloroethane			20.0	16.5		ug/Kg		82	71 - 128	0	30
1,3,5-Trimethylbenzene			20.0	18.0		ug/Kg		90	73 - 120	1	30
Toluene			20.0	17.8		ug/Kg		89	80 - 120	2	30
Xylenes, Total			60.0	51.9		ug/Kg		87	75 - 120	0	30
Methyl tertiary butyl ether			20.0	15.8		ug/Kg		79	72 - 120	6	30
Benzene			20.0	19.7		ug/Kg		99	80 - 120	0	30
Naphthalene			20.0	14.0		ug/Kg		70	48 - 130	9	30
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		90	73 - 120	1	30
Isopropylbenzene			20.0	16.9		ug/Kg		84	77 - 120	0	30
1,2-Dibromoethane			20.0	17.0		ug/Kg		85	76 - 120	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-158775/6
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/10/21 20:07	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/10/21 20:07	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/10/21 20:07	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:07	1
Toluene	ND		1.0	0.30	ug/L			08/10/21 20:07	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/10/21 20:07	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/10/21 20:07	1
Benzene	ND		1.0	0.30	ug/L			08/10/21 20:07	1
Naphthalene	ND		5.0	1.0	ug/L			08/10/21 20:07	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/10/21 20:07	1

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-158775/6
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/10/21 20:07*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/10/21 20:07*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*08/10/21 20:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/10/21 20:07*	*1*

Lab Sample ID: LCS 410-158775/4
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	18.6		ug/L		93	77 - 120		
Ethylbenzene			20.0	18.8		ug/L		94	80 - 120		
1,2-Dichloroethane			20.0	17.9		ug/L		89	73 - 124		
1,3,5-Trimethylbenzene			20.0	18.1		ug/L		91	75 - 120		
Toluene			20.0	18.4		ug/L		92	80 - 120		
Xylenes, Total			60.0	55.4		ug/L		92	80 - 120		
Methyl tertiary butyl ether			20.0	18.8		ug/L		94	69 - 122		
Benzene			20.0	18.9		ug/L		95	80 - 120		
Naphthalene			20.0	18.0		ug/L		90	53 - 124		
1,2,4-Trimethylbenzene			20.0	17.9		ug/L		90	75 - 120		
Isopropylbenzene			20.0	18.5		ug/L		92	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 410-158775/5
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	19.7		ug/L		98	77 - 120	5	30
Ethylbenzene			20.0	20.4		ug/L		102	80 - 120	8	30
1,2-Dichloroethane			20.0	19.4		ug/L		97	73 - 124	8	30
1,3,5-Trimethylbenzene			20.0	19.6		ug/L		98	75 - 120	8	30
Toluene			20.0	19.9		ug/L		99	80 - 120	7	30
Xylenes, Total			60.0	59.7		ug/L		100	80 - 120	7	30
Methyl tertiary butyl ether			20.0	20.6		ug/L		103	69 - 122	9	30
Benzene			20.0	20.8		ug/L		104	80 - 120	10	30
Naphthalene			20.0	19.8		ug/L		99	53 - 124	9	30
1,2,4-Trimethylbenzene			20.0	19.6		ug/L		98	75 - 120	9	30
Isopropylbenzene			20.0	19.8		ug/L		99	80 - 120	7	30

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-158775/5
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-158484/1-A
Matrix: Solid
Analysis Batch: 159419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158484

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Chrysene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Fluorene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Phenanthrene	ND		17	4.0	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Pyrene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		39 - 100	08/10/21 09:43	08/12/21 00:33	1
Nitrobenzene-d5 (Surr)	75		32 - 97	08/10/21 09:43	08/12/21 00:33	1
p-Terphenyl-d14 (Surr)	97		45 - 108	08/10/21 09:43	08/12/21 00:33	1

Lab Sample ID: LCS 410-158484/2-A
Matrix: Solid
Analysis Batch: 159419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1350		ug/Kg		81	75 - 120
Benzo[a]anthracene	1670	1370		ug/Kg		82	73 - 120
Benzo[a]pyrene	1670	1530		ug/Kg		92	80 - 123
Benzo[b]fluoranthene	1670	1460		ug/Kg		87	63 - 120
Benzo[g,h,i]perylene	1670	1780		ug/Kg		107	77 - 120
Chrysene	1670	1430		ug/Kg		86	66 - 120
Fluorene	1670	1360		ug/Kg		81	68 - 120
Phenanthrene	1670	1310		ug/Kg		79	74 - 120
Pyrene	1670	1320		ug/Kg		79	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	76		39 - 100
Nitrobenzene-d5 (Surr)	67		32 - 97
p-Terphenyl-d14 (Surr)	88		45 - 108

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-50151-23 MS
Matrix: Solid
Analysis Batch: 159422

Client Sample ID: Pipe 8 (2)
Prep Type: Total/NA
Prep Batch: 158484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	450	FL F2	1900	1220	FL	ug/Kg	☼	40	75 - 120
Benzo[a]anthracene	9.9	J FL F2	1900	1150	FL	ug/Kg	☼	60	73 - 120
Benzo[a]pyrene	4.2	J FL F2	1900	1160	FL	ug/Kg	☼	61	80 - 123
Benzo[b]fluoranthene	4.1	J FL F2	1900	1050	FL	ug/Kg	☼	55	63 - 120
Benzo[g,h,i]perylene	ND	FL F2	1900	1210	FL	ug/Kg	☼	64	77 - 120
Chrysene	16	J FL F2	1900	1080	FL	ug/Kg	☼	56	66 - 120
Fluorene	1500	FL F2	1900	1780	FL	ug/Kg	☼	13	68 - 120
Phenanthrene	3400	FL F2	1900	2660	FL	ug/Kg	☼	-41	74 - 120
Pyrene	310	FL F2	1900	1190	FL	ug/Kg	☼	46	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*45*		*39 - 100*
Nitrobenzene-d5 (Surr)	*51*		*32 - 97*
p-Terphenyl-d14 (Surr)	*56*		*45 - 108*

Lab Sample ID: 410-50151-23 MSD
Matrix: Solid
Analysis Batch: 159422

Client Sample ID: Pipe 8 (2)
Prep Type: Total/NA
Prep Batch: 158484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	450	FL F2	1900	1960	F2	ug/Kg	☼	79	75 - 120	47	30
Benzo[a]anthracene	9.9	J FL F2	1900	1660	F2	ug/Kg	☼	87	73 - 120	36	30
Benzo[a]pyrene	4.2	J FL F2	1900	1660	F2	ug/Kg	☼	87	80 - 123	36	30
Benzo[b]fluoranthene	4.1	J FL F2	1900	1450	F2	ug/Kg	☼	76	63 - 120	33	30
Benzo[g,h,i]perylene	ND	FL F2	1900	1710	F2	ug/Kg	☼	90	77 - 120	34	30
Chrysene	16	J FL F2	1900	1580	F2	ug/Kg	☼	82	66 - 120	37	30
Fluorene	1500	FL F2	1900	3430	F2	ug/Kg	☼	100	68 - 120	64	30
Phenanthrene	3400	FL F2	1900	4710	E FL F2	ug/Kg	☼	67	74 - 120	56	30
Pyrene	310	FL F2	1900	1790	F2	ug/Kg	☼	78	70 - 120	41	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*

Lab Sample ID: MB 410-158764/1-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Chrysene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Fluorene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Phenanthrene	ND		17	4.0	ug/Kg		08/10/21 17:56	08/11/21 08:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-158764/1-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/10/21 17:56*	*08/11/21 08:09*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*08/10/21 17:56*	*08/11/21 08:09*	*1*
p-Terphenyl-d14 (Surr)	*94*		*45 - 108*	*08/10/21 17:56*	*08/11/21 08:09*	*1*

Lab Sample ID: LCS 410-158764/2-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1650		ug/Kg		99	75 - 120
Benzo[a]anthracene	1670	1670		ug/Kg		100	73 - 120
Benzo[a]pyrene	1670	1720		ug/Kg		103	80 - 123
Benzo[b]fluoranthene	1670	1510		ug/Kg		91	63 - 120
Benzo[g,h,i]perylene	1670	1710		ug/Kg		103	77 - 120
Chrysene	1670	1630		ug/Kg		98	66 - 120
Fluorene	1670	1800		ug/Kg		108	68 - 120
Phenanthrene	1670	1610		ug/Kg		97	74 - 120
Pyrene	1670	1640		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*98*		*39 - 100*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*

Lab Sample ID: MB 410-159833/1-A
Matrix: Solid
Analysis Batch: 160160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Chrysene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Fluorene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Phenanthrene	ND		17	4.0	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Pyrene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*	*08/12/21 18:24*	*08/13/21 11:50*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/12/21 18:24*	*08/13/21 11:50*	*1*
p-Terphenyl-d14 (Surr)	*90*		*45 - 108*	*08/12/21 18:24*	*08/13/21 11:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-159833/2-A
Matrix: Solid
Analysis Batch: 160160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1560		ug/Kg		94	75 - 120
Benzo[a]anthracene	1670	1730		ug/Kg		104	73 - 120
Benzo[a]pyrene	1670	1610		ug/Kg		97	80 - 123
Benzo[b]fluoranthene	1670	1370		ug/Kg		82	63 - 120
Benzo[g,h,i]perylene	1670	1760		ug/Kg		106	77 - 120
Chrysene	1670	1750		ug/Kg		105	66 - 120
Fluorene	1670	1710		ug/Kg		102	68 - 120
Phenanthrene	1670	1530		ug/Kg		92	74 - 120
Pyrene	1670	1560		ug/Kg		94	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*93*		*39 - 100*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*

Lab Sample ID: MB 410-160040/1-A
Matrix: Solid
Analysis Batch: 160469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Chrysene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Fluorene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Phenanthrene	ND		17	4.0	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Pyrene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/13/21 09:46*	*08/13/21 23:41*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/13/21 09:46*	*08/13/21 23:41*	*1*
p-Terphenyl-d14 (Surr)	*102*		*45 - 108*	*08/13/21 09:46*	*08/13/21 23:41*	*1*

Lab Sample ID: LCS 410-160040/2-A
Matrix: Solid
Analysis Batch: 160469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1370		ug/Kg		82	75 - 120
Benzo[a]anthracene	1670	1430		ug/Kg		86	73 - 120
Benzo[a]pyrene	1670	1500		ug/Kg		90	80 - 123
Benzo[b]fluoranthene	1670	1320		ug/Kg		79	63 - 120
Benzo[g,h,i]perylene	1670	1680		ug/Kg		101	77 - 120
Chrysene	1670	1480		ug/Kg		89	66 - 120
Fluorene	1670	1400		ug/Kg		84	68 - 120
Phenanthrene	1670	1330		ug/Kg		80	74 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-160040/2-A
Matrix: Solid
Analysis Batch: 160469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160040

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Pyrene			1670	1330		ug/Kg		80	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*

Lab Sample ID: 410-50151-10 MS
Matrix: Solid
Analysis Batch: 160469

Client Sample ID: Pipe 11 (2)
Prep Type: Total/NA
Prep Batch: 160040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Anthracene	ND		1870	1550		ug/Kg	☼	83	75 - 120		
Benzo[a]anthracene	ND		1870	1710		ug/Kg	☼	91	73 - 120		
Benzo[a]pyrene	ND		1870	1710		ug/Kg	☼	91	80 - 123		
Benzo[b]fluoranthene	ND		1870	1520		ug/Kg	☼	81	63 - 120		
Benzo[g,h,i]perylene	ND		1870	1930		ug/Kg	☼	103	77 - 120		
Chrysene	ND		1870	1790		ug/Kg	☼	96	66 - 120		
Fluorene	ND		1870	1490		ug/Kg	☼	80	68 - 120		
Phenanthrene	ND		1870	1500		ug/Kg	☼	80	74 - 120		
Pyrene	ND		1870	1600		ug/Kg	☼	86	70 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*
Nitrobenzene-d5 (Surr)	*62*		*32 - 97*
p-Terphenyl-d14 (Surr)	*94*		*45 - 108*

Lab Sample ID: 410-50151-10 MSD
Matrix: Solid
Analysis Batch: 160469

Client Sample ID: Pipe 11 (2)
Prep Type: Total/NA
Prep Batch: 160040

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	ND		1870	1590		ug/Kg	☼	85	75 - 120	2	30
Benzo[a]anthracene	ND		1870	1640		ug/Kg	☼	87	73 - 120	4	30
Benzo[a]pyrene	ND		1870	1730		ug/Kg	☼	93	80 - 123	1	30
Benzo[b]fluoranthene	ND		1870	1510		ug/Kg	☼	81	63 - 120	1	30
Benzo[g,h,i]perylene	ND		1870	1870		ug/Kg	☼	100	77 - 120	3	30
Chrysene	ND		1870	1660		ug/Kg	☼	89	66 - 120	7	30
Fluorene	ND		1870	1600		ug/Kg	☼	85	68 - 120	7	30
Phenanthrene	ND		1870	1550		ug/Kg	☼	83	74 - 120	3	30
Pyrene	ND		1870	1580		ug/Kg	☼	84	70 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*
p-Terphenyl-d14 (Surr)	*94*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-157480/1-A
Matrix: Solid
Analysis Batch: 158685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/06/21 10:20	08/10/21 10:37	1

Lab Sample ID: LCS 410-157480/2-A
Matrix: Solid
Analysis Batch: 158685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.25		mg/Kg		105	80 - 120

Lab Sample ID: 410-50151-2 MS
Matrix: Solid
Analysis Batch: 158685

Client Sample ID: Pipe 15 (2)
Prep Type: Total/NA
Prep Batch: 157480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	11	FL F2	4.68	12.8	FL	mg/Kg	☼	39	75 - 125

Lab Sample ID: 410-50151-2 MSD
Matrix: Solid
Analysis Batch: 158685

Client Sample ID: Pipe 15 (2)
Prep Type: Total/NA
Prep Batch: 157480

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	11	FL F2	5.27	9.55	FL F2	mg/Kg	☼	-27	75 - 125	29	20

Lab Sample ID: 410-50151-2 DU
Matrix: Solid
Analysis Batch: 158685

Client Sample ID: Pipe 15 (2)
Prep Type: Total/NA
Prep Batch: 157480

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	11	FL F2	6.88	F3	mg/Kg	☼	46	20

Lab Sample ID: MB 410-157515/1-A
Matrix: Solid
Analysis Batch: 158735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/06/21 11:08	08/10/21 12:37	1

Lab Sample ID: LCS 410-157515/2-A
Matrix: Solid
Analysis Batch: 158735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	4.57		mg/Kg		91	80 - 120

GC/MS VOA

Prep Batch: 157578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	5035	
410-50151-2	Pipe 15 (2)	Total/NA	Solid	5035	
410-50151-3	4847-P2 (3)	Total/NA	Solid	5035	
410-50151-4	4847-P1 (3)	Total/NA	Solid	5035	
410-50151-5	4847-P3 (3)	Total/NA	Solid	5035	
410-50151-6	1043-P3 (3)	Total/NA	Solid	5035	
410-50151-7	DUP-2	Total/NA	Solid	5035	
410-50151-8	Pipe 61 (2)	Total/NA	Solid	5035	
410-50151-9	1043-P2 (3)	Total/NA	Solid	5035	
410-50151-10	Pipe 11 (2)	Total/NA	Solid	5035	
410-50151-12	Pipe 14 (2)	Total/NA	Solid	5035	
410-50151-13	1248-P4 (3)	Total/NA	Solid	5035	
410-50151-14	1248-P3 (3)	Total/NA	Solid	5035	
410-50151-15	1248-P2 (3)	Total/NA	Solid	5035	
410-50151-16	DUP-1	Total/NA	Solid	5035	
410-50151-17	Pipe 1 (2)	Total/NA	Solid	5035	
410-50151-18	1248-P1 (3)	Total/NA	Solid	5035	
410-50151-19	Pipe 2 (2)	Total/NA	Solid	5035	
410-50151-20	Pipe 3 (2)	Total/NA	Solid	5035	
410-50151-24	Pipe 6 (2)	Total/NA	Solid	5035	
410-50151-30	Pipe 16 (2)	Total/NA	Solid	5035	
410-50151-31	Pipe 60 (2)	Total/NA	Solid	5035	

Prep Batch: 157579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-11	1248-P5 (3)	Total/NA	Solid	5035	
410-50151-21	Pipe 5 (2)	Total/NA	Solid	5035	
410-50151-22 - DL	Pipe 7 (2)	Total/NA	Solid	5035	
410-50151-22	Pipe 7 (2)	Total/NA	Solid	5035	
410-50151-23 - DL	Pipe 8 (2)	Total/NA	Solid	5035	
410-50151-23	Pipe 8 (2)	Total/NA	Solid	5035	
410-50151-25	Pipe 10 (2)	Total/NA	Solid	5035	
410-50151-26	Pipe 9 (2)	Total/NA	Solid	5035	
410-50151-27	Pipe 12 (2)	Total/NA	Solid	5035	
410-50151-28	Pipe 13 (2)	Total/NA	Solid	5035	
410-50151-29	Pipe 17 (2)	Total/NA	Solid	5035	

Analysis Batch: 158050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	8260C	157578
410-50151-2	Pipe 15 (2)	Total/NA	Solid	8260C	157578
410-50151-3	4847-P2 (3)	Total/NA	Solid	8260C	157578
410-50151-4	4847-P1 (3)	Total/NA	Solid	8260C	157578
410-50151-5	4847-P3 (3)	Total/NA	Solid	8260C	157578
410-50151-6	1043-P3 (3)	Total/NA	Solid	8260C	157578
410-50151-7	DUP-2	Total/NA	Solid	8260C	157578
410-50151-8	Pipe 61 (2)	Total/NA	Solid	8260C	157578
410-50151-9	1043-P2 (3)	Total/NA	Solid	8260C	157578
410-50151-10	Pipe 11 (2)	Total/NA	Solid	8260C	157578
410-50151-12	Pipe 14 (2)	Total/NA	Solid	8260C	157578
410-50151-13	1248-P4 (3)	Total/NA	Solid	8260C	157578

GC/MS VOA (Continued)

Analysis Batch: 158050 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-14	1248-P3 (3)	Total/NA	Solid	8260C	157578
410-50151-15	1248-P2 (3)	Total/NA	Solid	8260C	157578
410-50151-16	DUP-1	Total/NA	Solid	8260C	157578
410-50151-17	Pipe 1 (2)	Total/NA	Solid	8260C	157578
410-50151-18	1248-P1 (3)	Total/NA	Solid	8260C	157578
410-50151-19	Pipe 2 (2)	Total/NA	Solid	8260C	157578
410-50151-20	Pipe 3 (2)	Total/NA	Solid	8260C	157578
410-50151-24	Pipe 6 (2)	Total/NA	Solid	8260C	157578
MB 410-158050/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-158050/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-158050/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 158385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-11	1248-P5 (3)	Total/NA	Solid	8260C	157579
410-50151-21	Pipe 5 (2)	Total/NA	Solid	8260C	157579
410-50151-22	Pipe 7 (2)	Total/NA	Solid	8260C	157579
410-50151-23	Pipe 8 (2)	Total/NA	Solid	8260C	157579
410-50151-25	Pipe 10 (2)	Total/NA	Solid	8260C	157579
410-50151-26	Pipe 9 (2)	Total/NA	Solid	8260C	157579
410-50151-27	Pipe 12 (2)	Total/NA	Solid	8260C	157579
410-50151-28	Pipe 13 (2)	Total/NA	Solid	8260C	157579
410-50151-29	Pipe 17 (2)	Total/NA	Solid	8260C	157579
MB 410-158385/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-158385/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-158385/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 158503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-22 - DL	Pipe 7 (2)	Total/NA	Solid	8260C	157579
410-50151-23 - DL	Pipe 8 (2)	Total/NA	Solid	8260C	157579
MB 410-158503/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-158503/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-158503/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 158553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-30	Pipe 16 (2)	Total/NA	Solid	8260C	157578
410-50151-31	Pipe 60 (2)	Total/NA	Solid	8260C	157578
MB 410-158553/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-158553/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-158553/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 158775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-32	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-158775/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-158775/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-158775/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

GC/MS Semi VOA

Prep Batch: 158484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-9	1043-P2 (3)	Total/NA	Solid	3546	
410-50151-23	Pipe 8 (2)	Total/NA	Solid	3546	
410-50151-24	Pipe 6 (2)	Total/NA	Solid	3546	
410-50151-25	Pipe 10 (2)	Total/NA	Solid	3546	
410-50151-26	Pipe 9 (2)	Total/NA	Solid	3546	
410-50151-27	Pipe 12 (2)	Total/NA	Solid	3546	
410-50151-28	Pipe 13 (2)	Total/NA	Solid	3546	
410-50151-29	Pipe 17 (2)	Total/NA	Solid	3546	
410-50151-30	Pipe 16 (2)	Total/NA	Solid	3546	
410-50151-31	Pipe 60 (2)	Total/NA	Solid	3546	
MB 410-158484/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158484/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-50151-23 MS	Pipe 8 (2)	Total/NA	Solid	3546	
410-50151-23 MSD	Pipe 8 (2)	Total/NA	Solid	3546	

Prep Batch: 158764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	3546	
410-50151-2	Pipe 15 (2)	Total/NA	Solid	3546	
410-50151-3	4847-P2 (3)	Total/NA	Solid	3546	
410-50151-4	4847-P1 (3)	Total/NA	Solid	3546	
410-50151-5	4847-P3 (3)	Total/NA	Solid	3546	
410-50151-7	DUP-2	Total/NA	Solid	3546	
410-50151-8	Pipe 61 (2)	Total/NA	Solid	3546	
410-50151-22	Pipe 7 (2)	Total/NA	Solid	3546	
MB 410-158764/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158764/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 158947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	8270D	158764
410-50151-2	Pipe 15 (2)	Total/NA	Solid	8270D	158764
410-50151-3	4847-P2 (3)	Total/NA	Solid	8270D	158764
410-50151-4	4847-P1 (3)	Total/NA	Solid	8270D	158764
410-50151-5	4847-P3 (3)	Total/NA	Solid	8270D	158764
410-50151-7	DUP-2	Total/NA	Solid	8270D	158764
410-50151-8	Pipe 61 (2)	Total/NA	Solid	8270D	158764
410-50151-22	Pipe 7 (2)	Total/NA	Solid	8270D	158764
MB 410-158764/1-A	Method Blank	Total/NA	Solid	8270D	158764
LCS 410-158764/2-A	Lab Control Sample	Total/NA	Solid	8270D	158764

Analysis Batch: 159419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-158484/1-A	Method Blank	Total/NA	Solid	8270D	158484
LCS 410-158484/2-A	Lab Control Sample	Total/NA	Solid	8270D	158484

Analysis Batch: 159422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-9	1043-P2 (3)	Total/NA	Solid	8270D	158484
410-50151-23	Pipe 8 (2)	Total/NA	Solid	8270D	158484
410-50151-24	Pipe 6 (2)	Total/NA	Solid	8270D	158484

GC/MS Semi VOA (Continued)

Analysis Batch: 159422 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-25	Pipe 10 (2)	Total/NA	Solid	8270D	158484
410-50151-26	Pipe 9 (2)	Total/NA	Solid	8270D	158484
410-50151-27	Pipe 12 (2)	Total/NA	Solid	8270D	158484
410-50151-28	Pipe 13 (2)	Total/NA	Solid	8270D	158484
410-50151-29	Pipe 17 (2)	Total/NA	Solid	8270D	158484
410-50151-30	Pipe 16 (2)	Total/NA	Solid	8270D	158484
410-50151-31	Pipe 60 (2)	Total/NA	Solid	8270D	158484
410-50151-23 MS	Pipe 8 (2)	Total/NA	Solid	8270D	158484
410-50151-23 MSD	Pipe 8 (2)	Total/NA	Solid	8270D	158484

Prep Batch: 159833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-6	1043-P3 (3)	Total/NA	Solid	3546	
MB 410-159833/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-159833/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 160040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-10	Pipe 11 (2)	Total/NA	Solid	3546	
410-50151-11	1248-P5 (3)	Total/NA	Solid	3546	
410-50151-12	Pipe 14 (2)	Total/NA	Solid	3546	
410-50151-13	1248-P4 (3)	Total/NA	Solid	3546	
410-50151-14	1248-P3 (3)	Total/NA	Solid	3546	
410-50151-15	1248-P2 (3)	Total/NA	Solid	3546	
410-50151-16	DUP-1	Total/NA	Solid	3546	
410-50151-17	Pipe 1 (2)	Total/NA	Solid	3546	
410-50151-18	1248-P1 (3)	Total/NA	Solid	3546	
410-50151-19	Pipe 2 (2)	Total/NA	Solid	3546	
410-50151-20	Pipe 3 (2)	Total/NA	Solid	3546	
410-50151-21	Pipe 5 (2)	Total/NA	Solid	3546	
MB 410-160040/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-160040/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-50151-10 MS	Pipe 11 (2)	Total/NA	Solid	3546	
410-50151-10 MSD	Pipe 11 (2)	Total/NA	Solid	3546	

Analysis Batch: 160160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-6	1043-P3 (3)	Total/NA	Solid	8270D	159833
MB 410-159833/1-A	Method Blank	Total/NA	Solid	8270D	159833
LCS 410-159833/2-A	Lab Control Sample	Total/NA	Solid	8270D	159833

Analysis Batch: 160469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-10	Pipe 11 (2)	Total/NA	Solid	8270D	160040
410-50151-11	1248-P5 (3)	Total/NA	Solid	8270D	160040
410-50151-12	Pipe 14 (2)	Total/NA	Solid	8270D	160040
410-50151-13	1248-P4 (3)	Total/NA	Solid	8270D	160040
410-50151-14	1248-P3 (3)	Total/NA	Solid	8270D	160040
410-50151-15	1248-P2 (3)	Total/NA	Solid	8270D	160040
410-50151-16	DUP-1	Total/NA	Solid	8270D	160040
410-50151-17	Pipe 1 (2)	Total/NA	Solid	8270D	160040

GC/MS Semi VOA (Continued)

Analysis Batch: 160469 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-18	1248-P1 (3)	Total/NA	Solid	8270D	160040
410-50151-19	Pipe 2 (2)	Total/NA	Solid	8270D	160040
410-50151-20	Pipe 3 (2)	Total/NA	Solid	8270D	160040
410-50151-21	Pipe 5 (2)	Total/NA	Solid	8270D	160040
MB 410-160040/1-A	Method Blank	Total/NA	Solid	8270D	160040
LCS 410-160040/2-A	Lab Control Sample	Total/NA	Solid	8270D	160040
410-50151-10 MS	Pipe 11 (2)	Total/NA	Solid	8270D	160040
410-50151-10 MSD	Pipe 11 (2)	Total/NA	Solid	8270D	160040

Metals

Prep Batch: 157480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	3050B	
410-50151-2	Pipe 15 (2)	Total/NA	Solid	3050B	
410-50151-3	4847-P2 (3)	Total/NA	Solid	3050B	
410-50151-4	4847-P1 (3)	Total/NA	Solid	3050B	
410-50151-5	4847-P3 (3)	Total/NA	Solid	3050B	
410-50151-6	1043-P3 (3)	Total/NA	Solid	3050B	
410-50151-7	DUP-2	Total/NA	Solid	3050B	
410-50151-8	Pipe 61 (2)	Total/NA	Solid	3050B	
410-50151-9	1043-P2 (3)	Total/NA	Solid	3050B	
410-50151-10	Pipe 11 (2)	Total/NA	Solid	3050B	
410-50151-12	Pipe 14 (2)	Total/NA	Solid	3050B	
410-50151-13	1248-P4 (3)	Total/NA	Solid	3050B	
410-50151-16	DUP-1	Total/NA	Solid	3050B	
410-50151-23	Pipe 8 (2)	Total/NA	Solid	3050B	
410-50151-25	Pipe 10 (2)	Total/NA	Solid	3050B	
410-50151-26	Pipe 9 (2)	Total/NA	Solid	3050B	
410-50151-27	Pipe 12 (2)	Total/NA	Solid	3050B	
410-50151-28	Pipe 13 (2)	Total/NA	Solid	3050B	
410-50151-29	Pipe 17 (2)	Total/NA	Solid	3050B	
410-50151-30	Pipe 16 (2)	Total/NA	Solid	3050B	
MB 410-157480/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-157480/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-50151-2 MS	Pipe 15 (2)	Total/NA	Solid	3050B	
410-50151-2 MSD	Pipe 15 (2)	Total/NA	Solid	3050B	
410-50151-2 DU	Pipe 15 (2)	Total/NA	Solid	3050B	

Prep Batch: 157515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-11	1248-P5 (3)	Total/NA	Solid	3050B	
410-50151-14	1248-P3 (3)	Total/NA	Solid	3050B	
410-50151-15	1248-P2 (3)	Total/NA	Solid	3050B	
410-50151-17	Pipe 1 (2)	Total/NA	Solid	3050B	
410-50151-18	1248-P1 (3)	Total/NA	Solid	3050B	
410-50151-19	Pipe 2 (2)	Total/NA	Solid	3050B	
410-50151-20	Pipe 3 (2)	Total/NA	Solid	3050B	
410-50151-21	Pipe 5 (2)	Total/NA	Solid	3050B	
410-50151-22	Pipe 7 (2)	Total/NA	Solid	3050B	
410-50151-24	Pipe 6 (2)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 157515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-31	Pipe 60 (2)	Total/NA	Solid	3050B	
MB 410-157515/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-157515/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 158685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	6010C	157480
410-50151-2	Pipe 15 (2)	Total/NA	Solid	6010C	157480
410-50151-3	4847-P2 (3)	Total/NA	Solid	6010C	157480
410-50151-4	4847-P1 (3)	Total/NA	Solid	6010C	157480
410-50151-5	4847-P3 (3)	Total/NA	Solid	6010C	157480
410-50151-6	1043-P3 (3)	Total/NA	Solid	6010C	157480
410-50151-7	DUP-2	Total/NA	Solid	6010C	157480
410-50151-8	Pipe 61 (2)	Total/NA	Solid	6010C	157480
410-50151-9	1043-P2 (3)	Total/NA	Solid	6010C	157480
410-50151-10	Pipe 11 (2)	Total/NA	Solid	6010C	157480
410-50151-12	Pipe 14 (2)	Total/NA	Solid	6010C	157480
410-50151-13	1248-P4 (3)	Total/NA	Solid	6010C	157480
410-50151-16	DUP-1	Total/NA	Solid	6010C	157480
410-50151-23	Pipe 8 (2)	Total/NA	Solid	6010C	157480
410-50151-25	Pipe 10 (2)	Total/NA	Solid	6010C	157480
410-50151-26	Pipe 9 (2)	Total/NA	Solid	6010C	157480
410-50151-27	Pipe 12 (2)	Total/NA	Solid	6010C	157480
410-50151-28	Pipe 13 (2)	Total/NA	Solid	6010C	157480
410-50151-29	Pipe 17 (2)	Total/NA	Solid	6010C	157480
410-50151-30	Pipe 16 (2)	Total/NA	Solid	6010C	157480
MB 410-157480/1-A	Method Blank	Total/NA	Solid	6010C	157480
LCS 410-157480/2-A	Lab Control Sample	Total/NA	Solid	6010C	157480
410-50151-2 MS	Pipe 15 (2)	Total/NA	Solid	6010C	157480
410-50151-2 MSD	Pipe 15 (2)	Total/NA	Solid	6010C	157480
410-50151-2 DU	Pipe 15 (2)	Total/NA	Solid	6010C	157480

Analysis Batch: 158735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-11	1248-P5 (3)	Total/NA	Solid	6010C	157515
410-50151-14	1248-P3 (3)	Total/NA	Solid	6010C	157515
410-50151-15	1248-P2 (3)	Total/NA	Solid	6010C	157515
410-50151-17	Pipe 1 (2)	Total/NA	Solid	6010C	157515
410-50151-18	1248-P1 (3)	Total/NA	Solid	6010C	157515
410-50151-19	Pipe 2 (2)	Total/NA	Solid	6010C	157515
410-50151-20	Pipe 3 (2)	Total/NA	Solid	6010C	157515
410-50151-21	Pipe 5 (2)	Total/NA	Solid	6010C	157515
410-50151-22	Pipe 7 (2)	Total/NA	Solid	6010C	157515
410-50151-24	Pipe 6 (2)	Total/NA	Solid	6010C	157515
410-50151-31	Pipe 60 (2)	Total/NA	Solid	6010C	157515
MB 410-157515/1-A	Method Blank	Total/NA	Solid	6010C	157515
LCS 410-157515/2-A	Lab Control Sample	Total/NA	Solid	6010C	157515

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

General Chemistry

Analysis Batch: 157442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	Moisture	
410-50151-2	Pipe 15 (2)	Total/NA	Solid	Moisture	
410-50151-3	4847-P2 (3)	Total/NA	Solid	Moisture	
410-50151-4	4847-P1 (3)	Total/NA	Solid	Moisture	
410-50151-5	4847-P3 (3)	Total/NA	Solid	Moisture	
410-50151-6	1043-P3 (3)	Total/NA	Solid	Moisture	
410-50151-7	DUP-2	Total/NA	Solid	Moisture	
410-50151-8	Pipe 61 (2)	Total/NA	Solid	Moisture	
410-50151-9	1043-P2 (3)	Total/NA	Solid	Moisture	
410-50151-10	Pipe 11 (2)	Total/NA	Solid	Moisture	
410-50151-11	1248-P5 (3)	Total/NA	Solid	Moisture	
410-50151-12	Pipe 14 (2)	Total/NA	Solid	Moisture	
410-50151-13	1248-P4 (3)	Total/NA	Solid	Moisture	
410-50151-14	1248-P3 (3)	Total/NA	Solid	Moisture	
410-50151-15	1248-P2 (3)	Total/NA	Solid	Moisture	
410-50151-16	DUP-1	Total/NA	Solid	Moisture	
410-50151-17	Pipe 1 (2)	Total/NA	Solid	Moisture	
410-50151-18	1248-P1 (3)	Total/NA	Solid	Moisture	
410-50151-19	Pipe 2 (2)	Total/NA	Solid	Moisture	
410-50151-20	Pipe 3 (2)	Total/NA	Solid	Moisture	

Analysis Batch: 157462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-21	Pipe 5 (2)	Total/NA	Solid	Moisture	
410-50151-22	Pipe 7 (2)	Total/NA	Solid	Moisture	
410-50151-23	Pipe 8 (2)	Total/NA	Solid	Moisture	
410-50151-24	Pipe 6 (2)	Total/NA	Solid	Moisture	
410-50151-25	Pipe 10 (2)	Total/NA	Solid	Moisture	
410-50151-26	Pipe 9 (2)	Total/NA	Solid	Moisture	
410-50151-27	Pipe 12 (2)	Total/NA	Solid	Moisture	
410-50151-28	Pipe 13 (2)	Total/NA	Solid	Moisture	
410-50151-29	Pipe 17 (2)	Total/NA	Solid	Moisture	
410-50151-30	Pipe 16 (2)	Total/NA	Solid	Moisture	
410-50151-31	Pipe 60 (2)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: 4847-P6 (3)

Lab Sample ID: 410-50151-1

Date Collected: 08/05/21 09:10

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 4847-P6 (3)

Lab Sample ID: 410-50151-1

Date Collected: 08/05/21 09:10

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 12:07	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 09:17	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:45	WJM9	ELLE

Client Sample ID: Pipe 15 (2)

Lab Sample ID: 410-50151-2

Date Collected: 08/05/21 09:30

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: Pipe 15 (2)

Lab Sample ID: 410-50151-2

Date Collected: 08/05/21 09:30

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 12:29	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 09:40	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 10:43	WJM9	ELLE

Client Sample ID: 4847-P2 (3)

Lab Sample ID: 410-50151-3

Date Collected: 08/05/21 10:40

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 4847-P2 (3)

Lab Sample ID: 410-50151-3

Date Collected: 08/05/21 10:40

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 12:52	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 10:02	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:35	WJM9	ELLE

Client Sample ID: 4847-P1 (3)

Lab Sample ID: 410-50151-4

Date Collected: 08/05/21 10:55

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 4847-P1 (3)

Lab Sample ID: 410-50151-4

Date Collected: 08/05/21 10:55

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 13:15	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 10:25	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:41	WJM9	ELLE

Client Sample ID: 4847-P3 (3)

Lab Sample ID: 410-50151-5

Date Collected: 08/05/21 11:00

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 4847-P3 (3)

Lab Sample ID: 410-50151-5

Date Collected: 08/05/21 11:00

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 13:38	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 10:47	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:22	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: 1043-P3 (3)

Lab Sample ID: 410-50151-6

Date Collected: 08/05/21 11:35
Date Received: 08/05/21 16:02

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1043-P3 (3)

Lab Sample ID: 410-50151-6

Date Collected: 08/05/21 11:35
Date Received: 08/05/21 16:02

Matrix: Solid
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 14:00	UCB5	ELLE
Total/NA	Prep	3546			159833	08/12/21 18:24	QQ3P	ELLE
Total/NA	Analysis	8270D		1	160160	08/13/21 12:35	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:25	WJM9	ELLE

Client Sample ID: DUP-2

Lab Sample ID: 410-50151-7

Date Collected: 08/05/21 00:00
Date Received: 08/05/21 16:02

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: DUP-2

Lab Sample ID: 410-50151-7

Date Collected: 08/05/21 00:00
Date Received: 08/05/21 16:02

Matrix: Solid
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 16:39	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 11:10	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:28	WJM9	ELLE

Client Sample ID: Pipe 61 (2)

Lab Sample ID: 410-50151-8

Date Collected: 08/05/21 11:50
Date Received: 08/05/21 16:02

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: Pipe 61 (2)

Lab Sample ID: 410-50151-8
Date Collected: 08/05/21 11:50
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 14:23	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 11:32	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:38	WJM9	ELLE

Client Sample ID: 1043-P2 (3)

Lab Sample ID: 410-50151-9
Date Collected: 08/05/21 11:45
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1043-P2 (3)

Lab Sample ID: 410-50151-9
Date Collected: 08/05/21 11:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 17:02	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 00:43	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:02	WJM9	ELLE

Client Sample ID: Pipe 11 (2)

Lab Sample ID: 410-50151-10
Date Collected: 08/04/21 08:45
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: Pipe 11 (2)

Lab Sample ID: 410-50151-10
Date Collected: 08/04/21 08:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:49	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 17:25	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 00:28	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:06	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: 1248-P5 (3)

Lab Sample ID: 410-50151-11

Date Collected: 08/04/21 09:00
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1248-P5 (3)

Lab Sample ID: 410-50151-11

Date Collected: 08/04/21 09:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 14:43	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 00:51	SWV2	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 01:39	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:38	WJM9	ELLE

Client Sample ID: Pipe 14 (2)

Lab Sample ID: 410-50151-12

Date Collected: 08/04/21 09:10
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: Pipe 14 (2)

Lab Sample ID: 410-50151-12

Date Collected: 08/04/21 09:10
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:49	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 17:47	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 02:02	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:31	WJM9	ELLE

Client Sample ID: 1248-P4 (3)

Lab Sample ID: 410-50151-13

Date Collected: 08/04/21 09:30
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1248-P4 (3)

Lab Sample ID: 410-50151-13

Date Collected: 08/04/21 09:30

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 14:46	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 02:26	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:18	WJM9	ELLE

Client Sample ID: 1248-P3 (3)

Lab Sample ID: 410-50151-14

Date Collected: 08/04/21 10:00

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1248-P3 (3)

Lab Sample ID: 410-50151-14

Date Collected: 08/04/21 10:00

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 18:10	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 02:49	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:34	WJM9	ELLE

Client Sample ID: 1248-P2 (3)

Lab Sample ID: 410-50151-15

Date Collected: 08/04/21 10:10

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1248-P2 (3)

Lab Sample ID: 410-50151-15

Date Collected: 08/04/21 10:10

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 15:08	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 03:13	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:21	WJM9	ELLE

Client Sample ID: DUP-1

Lab Sample ID: 410-50151-16

Date Collected: 08/04/21 00:00

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: DUP-1

Lab Sample ID: 410-50151-16

Date Collected: 08/04/21 00:00

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 15:31	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 03:37	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:15	WJM9	ELLE

Client Sample ID: Pipe 1 (2)

Lab Sample ID: 410-50151-17

Date Collected: 08/04/21 10:30

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: Pipe 1 (2)

Lab Sample ID: 410-50151-17

Date Collected: 08/04/21 10:30

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 19:18	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 04:00	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:28	WJM9	ELLE

Client Sample ID: 1248-P1 (3)

Lab Sample ID: 410-50151-18

Date Collected: 08/04/21 10:35

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1248-P1 (3)

Lab Sample ID: 410-50151-18

Date Collected: 08/04/21 10:35
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 15:54	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 04:24	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:25	WJM9	ELLE

Client Sample ID: Pipe 2 (2)

Lab Sample ID: 410-50151-19

Date Collected: 08/04/21 11:00
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: Pipe 2 (2)

Lab Sample ID: 410-50151-19

Date Collected: 08/04/21 11:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 18:33	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 04:48	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:18	WJM9	ELLE

Client Sample ID: Pipe 3 (2)

Lab Sample ID: 410-50151-20

Date Collected: 08/04/21 11:15
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: Pipe 3 (2)

Lab Sample ID: 410-50151-20

Date Collected: 08/04/21 11:15
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 16:17	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 05:11	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:31	WJM9	ELLE

Client Sample ID: Pipe 5 (2)

Lab Sample ID: 410-50151-21

Date Collected: 08/04/21 11:20

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 5 (2)

Lab Sample ID: 410-50151-21

Date Collected: 08/04/21 11:20

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 13:30	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 01:12	SWV2	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 05:34	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:02	WJM9	ELLE

Client Sample ID: Pipe 7 (2)

Lab Sample ID: 410-50151-22

Date Collected: 08/04/21 11:30

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 7 (2)

Lab Sample ID: 410-50151-22

Date Collected: 08/04/21 11:30

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	DL		157579	08/06/21 14:43	JJT8	ELLE
Total/NA	Analysis	8260C	DL	1000	158503	08/10/21 14:04	USEJ	ELLE
Total/NA	Prep	5035			157579	08/06/21 14:43	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 01:33	SWV2	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 11:55	ULM3	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:15	WJM9	ELLE

Client Sample ID: Pipe 8 (2)

Lab Sample ID: 410-50151-23

Date Collected: 08/04/21 11:40

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 8 (2)

Lab Sample ID: 410-50151-23

Date Collected: 08/04/21 11:40

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	DL		157579	08/06/21 14:43	JJT8	ELLE
Total/NA	Analysis	8260C	DL	1000	158503	08/10/21 14:26	USEJ	ELLE
Total/NA	Prep	5035			157579	08/06/21 14:43	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 01:53	SWV2	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 01:05	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 12:04	WJM9	ELLE

Client Sample ID: Pipe 6 (2)

Lab Sample ID: 410-50151-24

Date Collected: 08/04/21 11:50

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 6 (2)

Lab Sample ID: 410-50151-24

Date Collected: 08/04/21 11:50

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 18:55	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 02:12	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:06	WJM9	ELLE

Client Sample ID: Pipe 10 (2)

Lab Sample ID: 410-50151-25

Date Collected: 08/04/21 12:30

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 10 (2)

Lab Sample ID: 410-50151-25

Date Collected: 08/04/21 12:30

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 13:30	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 02:14	SWV2	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 02:35	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:57	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: Pipe 9 (2)

Lab Sample ID: 410-50151-26

Date Collected: 08/04/21 12:15
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 9 (2)

Lab Sample ID: 410-50151-26

Date Collected: 08/04/21 12:15
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 13:30	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 02:35	SWV2	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 02:57	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 12:01	WJM9	ELLE

Client Sample ID: Pipe 12 (2)

Lab Sample ID: 410-50151-27

Date Collected: 08/04/21 12:45
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 12 (2)

Lab Sample ID: 410-50151-27

Date Collected: 08/04/21 12:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 13:30	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 02:56	SWV2	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 03:20	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 12:11	WJM9	ELLE

Client Sample ID: Pipe 13 (2)

Lab Sample ID: 410-50151-28

Date Collected: 08/04/21 13:00
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 13 (2)

Lab Sample ID: 410-50151-28

Date Collected: 08/04/21 13:00

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 13:30	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 03:16	SWV2	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 03:42	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 12:07	WJM9	ELLE

Client Sample ID: Pipe 17 (2)

Lab Sample ID: 410-50151-29

Date Collected: 08/04/21 13:20

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 17 (2)

Lab Sample ID: 410-50151-29

Date Collected: 08/04/21 13:20

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 13:30	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 03:37	SWV2	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 04:05	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:54	WJM9	ELLE

Client Sample ID: Pipe 16 (2)

Lab Sample ID: 410-50151-30

Date Collected: 08/04/21 14:00

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 16 (2)

Lab Sample ID: 410-50151-30

Date Collected: 08/04/21 14:00

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 12:28	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 04:27	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 12:14	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: Pipe 60 (2)

Lab Sample ID: 410-50151-31

Date Collected: 08/05/21 12:00
Date Received: 08/05/21 16:02

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 60 (2)

Lab Sample ID: 410-50151-31

Date Collected: 08/05/21 12:00
Date Received: 08/05/21 16:02

Matrix: Solid
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 12:50	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 04:50	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:41	WJM9	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-50151-32

Date Collected: 08/04/21 00:00
Date Received: 08/05/21 16:02

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	158775	08/10/21 20:31	LCW8	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-50151-1	4847-P6 (3)	Solid	08/05/21 09:10	08/05/21 16:02
410-50151-2	Pipe 15 (2)	Solid	08/05/21 09:30	08/05/21 16:02
410-50151-3	4847-P2 (3)	Solid	08/05/21 10:40	08/05/21 16:02
410-50151-4	4847-P1 (3)	Solid	08/05/21 10:55	08/05/21 16:02
410-50151-5	4847-P3 (3)	Solid	08/05/21 11:00	08/05/21 16:02
410-50151-6	1043-P3 (3)	Solid	08/05/21 11:35	08/05/21 16:02
410-50151-7	DUP-2	Solid	08/05/21 00:00	08/05/21 16:02
410-50151-8	Pipe 61 (2)	Solid	08/05/21 11:50	08/05/21 16:02
410-50151-9	1043-P2 (3)	Solid	08/05/21 11:45	08/05/21 16:02
410-50151-10	Pipe 11 (2)	Solid	08/04/21 08:45	08/05/21 16:02
410-50151-11	1248-P5 (3)	Solid	08/04/21 09:00	08/05/21 16:02
410-50151-12	Pipe 14 (2)	Solid	08/04/21 09:10	08/05/21 16:02
410-50151-13	1248-P4 (3)	Solid	08/04/21 09:30	08/05/21 16:02
410-50151-14	1248-P3 (3)	Solid	08/04/21 10:00	08/05/21 16:02
410-50151-15	1248-P2 (3)	Solid	08/04/21 10:10	08/05/21 16:02
410-50151-16	DUP-1	Solid	08/04/21 00:00	08/05/21 16:02
410-50151-17	Pipe 1 (2)	Solid	08/04/21 10:30	08/05/21 16:02
410-50151-18	1248-P1 (3)	Solid	08/04/21 10:35	08/05/21 16:02
410-50151-19	Pipe 2 (2)	Solid	08/04/21 11:00	08/05/21 16:02
410-50151-20	Pipe 3 (2)	Solid	08/04/21 11:15	08/05/21 16:02
410-50151-21	Pipe 5 (2)	Solid	08/04/21 11:20	08/05/21 16:02
410-50151-22	Pipe 7 (2)	Solid	08/04/21 11:30	08/05/21 16:02
410-50151-23	Pipe 8 (2)	Solid	08/04/21 11:40	08/05/21 16:02
410-50151-24	Pipe 6 (2)	Solid	08/04/21 11:50	08/05/21 16:02
410-50151-25	Pipe 10 (2)	Solid	08/04/21 12:30	08/05/21 16:02
410-50151-26	Pipe 9 (2)	Solid	08/04/21 12:15	08/05/21 16:02
410-50151-27	Pipe 12 (2)	Solid	08/04/21 12:45	08/05/21 16:02
410-50151-28	Pipe 13 (2)	Solid	08/04/21 13:00	08/05/21 16:02
410-50151-29	Pipe 17 (2)	Solid	08/04/21 13:20	08/05/21 16:02
410-50151-30	Pipe 16 (2)	Solid	08/04/21 14:00	08/05/21 16:02
410-50151-31	Pipe 60 (2)	Solid	08/05/21 12:00	08/05/21 16:02
410-50151-32	Trip Blank	Water	08/04/21 00:00	08/05/21 16:02

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-50151 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: SP/ZS/DH	Lab PM: Carter, Amek A		COC No: 410-30581-9562.1
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 1 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	A		
4847-P6 (3)	8/5/21	0910	G	Solid		X	X	X		
Pipe 15 (2)	8/5/21	0930	G	Solid		X	X	X		
4847-P2 (3)	8/5/21	1040	G	Solid		X	X	X		
4847-P1 (3)	8/5/21	1055	G	Solid		X	X	X		
4847-P3 (3)	8/5/21	1100	G	Solid		X	X	X		
1043-P3 (3)	8/5/21	1135	G	Solid		X	X	X		
DUP-2	8/5/21	—	G	Solid		X	X	X		
Pipe 61 (2)	8/5/21	1150	G	Solid		X	X	X		
1043-P2 (3)	8/5/21	1145	G	Solid		X	X	X		
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/5/21 1225	Stantec	Pierre	8/5/21 17:26	
2	Pierre	8/5/21 1553				
3					8/5/21 16:02	Eurofins

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.9-2.7

RAM RAM Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: IA/DC/DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-30581-9562 2
Client Contact: Mark Schaeffer	Phone: (484)467-3657	E-Mail: Loran Carter@eurofinset.com	State of Origin: PA	Page: Page 2 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 days			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Special Instructions/Note:
			Preservation Code:		N	N	A	
Pipe 11 (2)	8/4/21	0845	G	Solid	X	X	X	
1248-P5 (3)	8/4/21	0900	G	Solid	X	X	X	
Pipe 14 (2)	8/4/21	0910	G	Solid	X	X	X	
1248-P4 (3)	8/4/21	0930	G	Solid	X	X	X	
1248-P3 (3)	8/4/21	1000	G	Solid	X	X	X	
1248-P2 (3)	8/4/21	1010	G	Solid	X	X	X	
DUP-1	8/4/21	—	G	Solid	X	X	X	
Pipe 1 (2)	8/4/21	1030	G	Solid	X	X	X	
1248-P1 (3)	8/4/21	1035	G	Solid	X	X	X	
Pipe 2 (2)	8/4/21	1100	G	Solid	X	X	X	
Pipe 3 (2)	8/4/21	1115	G	Solid	X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/5/21 1225	Stantec	Pierre	8/5/21 1225	
2	Pierre	8/7/21 1558				
3					8/7/21 1610	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9-2.7

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: IA/DC/DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-30581-9562 3
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran Carter@eurofinset.com	State of Origin: PA	Page: Page 3 of 5
Company: Stantec Consulting Corp.	PWSID:	Analysis Requested		Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			Preservation Codes:
City: West Chester	TAT Requested (days): 5days			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			Other:
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A		
Pipe 5 (2)	8/4/21	1120	G	Solid			X	X	X		
Pipe 7 (2)	8/4/21	1130	G	Solid			X	X	X		
Pipe 8 (2)	8/4/21	1140	G	Solid			X	X	X		
Pipe 6 (2)	8/4/21	1150	G	Solid			X	X	X		
Pipe 10 (2)	8/4/21	1230	G	Solid			X	X	X		
Pipe 9 (2)	8/4/21	1215	G	Solid			X	X	X		
Pipe 12 (2)	8/4/21	1245	G	Solid			X	X	X		
Pipe 13 (2)	8/4/21	1300	G	Solid			X	X	X		
Pipe 17 (2)	8/4/21	1320	G	Solid			X	X	X		
Pipe 16 (2)	8/4/21	1400	G	Solid			X	X	X		
				Solid							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/5/21 1225	Stantec	Tierra	8/5/21 12:25	
2	Tierra	8/5/21 1555				
3					8/5/21 16:07	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9-2.7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-50151-1

Login Number: 50151

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Metzger, Katherine A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-50281-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/13/2021 1:14:33 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
8/13/2021 1:14:33 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
FH	MS and/or MSD recovery above control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-50281-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-50281-1

Receipt
The samples were received on 8/6/2021 3:23 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6°C and 1.9°C

Receipt Exceptions
The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC):

Entered based on other samples and received containers.

Pipe 77 (2) (410-50281-7)

The following samples were listed on the Chain of Custody (COC); however, no samples were received:

Pipe 60 (2)

DUP-3 (410-50281-1), 7551-P5 (3) (410-50281-2), Pipe 75 (2) (410-50281-3), 7551-P1 (3) (410-50281-4), Pipe 87 (2) (410-50281-5), 7551-P2 (3) (410-50281-6), Pipe 77 (2) (410-50281-7), Pipe 76 (2) (410-50281-8), 7551-P3 (3) (410-50281-9), Trip Blank (410-50281-10), Pipe 53 (2) (410-50281-11), 1044-P4 (3) (410-50281-12), Pipe 55 (2) (410-50281-13), Pipe 78 (2) (410-50281-14), Pipe 79 (2) (410-50281-15), 7551-P7 (3) (410-50281-16), Pipe 82 (2) (410-50281-17), 7551-P6 (3) (410-50281-18), Pipe 81 (2) (410-50281-19), Pipe 83 (2) (410-50281-20), Pipe 80 (2) (410-50281-21), Pipe 50 (2) (410-50281-22), Pipe 49 (2) (410-50281-23), Pipe 45 (2) (410-50281-24), Pipe 47 (2) (410-50281-25), Pipe 46 (2) (410-50281-26), Pipe 48 (2) (410-50281-27), 1043-P5 (3) (410-50281-28), 1043-P4 (3) (410-50281-29), 1043-P1 (3) (410-50281-30), Pipe 51 (2) (410-50281-31) and Pipe 52 (2) (410-50281-32).

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: Pipe 75 (2) (410-50281-3), Pipe 87 (2) (410-50281-5), Pipe 55 (2) (410-50281-13), 7551-P7 (3) (410-50281-16), Pipe 45 (2) (410-50281-24), Pipe 47 (2) (410-50281-25) and Pipe 46 (2) (410-50281-26). Elevated reporting limits (RLs) are provided.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: Pipe 53 (2) (410-50281-11). The sample(s) was re-analyzed and ISTD response was outside control limits.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: Pipe 51 (2) (410-50281-31). The sample(s) was re-extracted and/or re-analyzed and ISTD response was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: DUP-3 — Lab Sample ID: 410-50281-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	4.8	J	6.1	0.49	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.5	J	6.1	0.61	ug/Kg	1	☼	8260C	Total/NA
Toluene	12		6.1	0.73	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	14		12	1.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	4.3	J	6.1	0.61	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	3.6	J	6.1	2.4	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	7.3		6.1	0.61	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	0.54	J	6.1	0.49	ug/Kg	1	☼	8260C	Total/NA
Anthracene	7.0	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	19	FH F2	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	22		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	25		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	24		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	20	F2	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	4.9	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	26	FH F2	19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	34	FH F2	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	26		1.6	0.63	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-P5 (3) — Lab Sample ID: 410-50281-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	8.0	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	11	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	15	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	9.8	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	11	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	8.1	J	18	4.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	16	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Lead	25		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 75 (2) — Lab Sample ID: 410-50281-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	44	J	320	25	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	100	J	320	32	ug/Kg	50	☼	8260C	Total/NA
Toluene	180	J	320	38	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	240	J	640	89	ug/Kg	50	☼	8260C	Total/NA
Benzene	39	J	320	32	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	65	J	320	32	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	17	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	17	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	27		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	30		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	18	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	15	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	48		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	190		1.6	0.62	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: 7551-P1 (3) — Lab Sample ID: 410-50281-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	3.3	J	7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.9	J	7.5	0.90	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.1	J	15	2.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.1	J	7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	5.8	J	7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
Anthracene	99		56	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	330		56	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	260		56	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	370		56	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	200		56	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	290		56	11	ug/Kg	1	☼	8270D	Total/NA
Fluorene	31	J	56	11	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	450		56	13	ug/Kg	1	☼	8270D	Total/NA
Pyrene	710		56	11	ug/Kg	1	☼	8270D	Total/NA
Lead	42		2.1	0.86	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 87 (2) — Lab Sample ID: 410-50281-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	100	J	330	26	ug/Kg	50	☼	8260C	Total/NA
Toluene	79	J	330	40	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	120	J	660	93	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	100	J	330	33	ug/Kg	50	☼	8260C	Total/NA
Anthracene	250		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	570		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	640		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	730		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	590		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	510		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	180		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	260		20	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1100		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	720		1.4	0.55	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-P2 (3) — Lab Sample ID: 410-50281-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2900		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	4300		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	3200		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	3500		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1800		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	3800		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	2200		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene - DL	12000		110	27	ug/Kg	5	☼	8270D	Total/NA
Pyrene - DL	7800		110	23	ug/Kg	5	☼	8270D	Total/NA
Lead	37		1.8	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 77 (2) — Lab Sample ID: 410-50281-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1400		360	29	ug/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 77 (2) (Continued) — Lab Sample ID: 410-50281-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	8100		360	36	ug/Kg	50	☼	8260C	Total/NA
Toluene	100	J	360	44	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	3500		730	100	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	2000		360	150	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	19000		360	36	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	1800		360	29	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	190		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	270		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	200		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	270		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	370		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	900		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	870		22	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	560		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	210		1.8	0.71	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 76 (2) — Lab Sample ID: 410-50281-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	1.1	J	4.8	0.48	ug/Kg	1	☼	8260C	Total/NA
Anthracene	14	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	83		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	120		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	150		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	140		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	5.6	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	76		18	4.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	180		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Lead	270		1.6	0.62	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-P3 (3) — Lab Sample ID: 410-50281-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	0.71	J	6.3	0.63	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.84	J	6.3	0.75	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.85	J	6.3	0.63	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.77	J	6.3	0.63	ug/Kg	1	☼	8260C	Total/NA
Anthracene	65		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	220		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	230		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	140		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	210		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	32		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	260		23	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	340		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	44		1.9	0.76	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-50281-10

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: Pipe 53 (2) — Lab Sample ID: 410-50281-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	170	J	220	45	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	220		220	45	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	230		220	45	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	160	J	220	45	ug/Kg	5	☼	8270D	Total/NA
Chrysene	170	J	220	45	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	56	J	220	54	ug/Kg	5	☼	8270D	Total/NA
Pyrene	220		220	45	ug/Kg	5	☼	8270D	Total/NA
Lead	83		1.4	0.58	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1044-P4 (3) — Lab Sample ID: 410-50281-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3	J	6.7	0.67	ug/Kg	1	☼	8260C	Total/NA
Anthracene	64		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	120		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	95		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	120		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	77		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	120		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	37		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	99		23	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	150		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	2100		1.9	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 55 (2) — Lab Sample ID: 410-50281-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	110		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	510		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	460		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	580		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	330		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	580		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	92		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1100		23	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	930		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Lead	750	F2	1.8	0.73	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 78 (2) — Lab Sample ID: 410-50281-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	140	J	550	44	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1100		550	55	ug/Kg	50	☼	8260C	Total/NA
Toluene	110	J	550	65	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	470	J	1100	150	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	290	J	550	220	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2200		550	55	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	180	J	550	44	ug/Kg	50	☼	8260C	Total/NA
Anthracene	31		28	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	22	J	28	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	21	J	28	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	40		28	5.5	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 78 (2) (Continued)

Lab Sample ID: 410-50281-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	56		28	5.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	30		28	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	64		28	6.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	54		28	5.5	ug/Kg	1	☼	8270D	Total/NA
Lead	94		1.9	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 79 (2)

Lab Sample ID: 410-50281-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1700		250	20	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	39	J	250	25	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	110	J	510	71	ug/Kg	50	☼	8260C	Total/NA
Benzene	26	J	250	25	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	820		250	100	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	1000		250	20	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	27000		2500	250	ug/Kg	500	☼	8260C	Total/NA
Anthracene	35		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	62		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	47		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	44		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	41		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	80		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	130		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	190		18	4.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	100		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Lead	14		1.3	0.51	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-P7 (3)

Lab Sample ID: 410-50281-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	42	J	340	27	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	180	J	340	34	ug/Kg	50	☼	8260C	Total/NA
Toluene	220	J	340	41	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	300	J	680	95	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	420		340	34	ug/Kg	50	☼	8260C	Total/NA
Anthracene	18	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	39		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	48		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	95		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	34		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	35		20	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	44		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	18		1.6	0.65	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 82 (2)

Lab Sample ID: 410-50281-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.0	J	7.3	0.58	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.73	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
Toluene	6.8	J	7.3	0.87	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	5.9	J	15	2.0	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 82 (2) (Continued)

Lab Sample ID: 410-50281-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.2	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.2	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
Anthracene	110		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	360		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	390		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	510		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	390		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	390		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	32		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	450		24	5.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	570		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Lead	200		1.9	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-P6 (3)

Lab Sample ID: 410-50281-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	4100		460	37	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	15000		460	46	ug/Kg	50	☼	8260C	Total/NA
Toluene	8400		460	55	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	31000		920	130	ug/Kg	50	☼	8260C	Total/NA
Benzene	720		460	46	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	1100		460	180	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	2000		460	37	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	51000		4600	460	ug/Kg	500	☼	8260C	Total/NA
Anthracene	21	J	25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	17	J	25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	29		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	43		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	63		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	31		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	74		25	6.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	36		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Lead	21		2.3	0.90	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 81 (2)

Lab Sample ID: 410-50281-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.4	J	5.6	0.44	ug/Kg	1	☼	8260C	Total/NA
1,2-Dichloroethane	1.3	J	5.6	0.67	ug/Kg	1	☼	8260C	Total/NA
Toluene	31		5.6	0.67	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	7.3	J	11	1.6	ug/Kg	1	☼	8260C	Total/NA
Benzene	12		5.6	0.56	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.1	J	5.6	0.56	ug/Kg	1	☼	8260C	Total/NA
Anthracene	48		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	120		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	330		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	370		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	430		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	130		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	12	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	97		20	4.9	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 81 (2) (Continued)

Lab Sample ID: 410-50281-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	140		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	500		1.4	0.56	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 83 (2)

Lab Sample ID: 410-50281-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	5.5		5.4	0.65	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.8	J	11	1.5	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.8	J	5.4	0.54	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.58	J	5.4	0.54	ug/Kg	1	☼	8260C	Total/NA
Anthracene	55		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	350		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	330		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	490		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	300		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	370		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	15	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	190		20	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	560		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	76		1.2	0.50	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 80 (2)

Lab Sample ID: 410-50281-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	3.8	J	5.9	0.47	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.4	J	5.9	0.59	ug/Kg	1	☼	8260C	Total/NA
Toluene	11		5.9	0.71	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	12		12	1.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.8	J	5.9	0.59	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	5.7	J	5.9	0.59	ug/Kg	1	☼	8260C	Total/NA
Anthracene	33		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	57		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	94		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	100		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	110		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	65		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	21		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	110		19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Lead	30		1.4	0.56	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 50 (2)

Lab Sample ID: 410-50281-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	9.8	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.2	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	9.9	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	11	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	9.7	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	10	J	21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	13	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	320		1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: Pipe 49 (2) — Lab Sample ID: 410-50281-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1	J	7.0	0.70	ug/Kg	1	☼	8260C	Total/NA
Anthracene	13	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	19	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	20		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	27		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	22		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	25		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	52		20	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	50		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	78		1.4	0.55	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 45 (2) — Lab Sample ID: 410-50281-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	75	J	470	47	ug/Kg	50	☼	8260C	Total/NA
Anthracene	22		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	6.7	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.7	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	9.3	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	11	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	32		20	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	15	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	330		1.7	0.68	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 47 (2) — Lab Sample ID: 410-50281-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	80	J	190	38	ug/Kg	10	☼	8270D	Total/NA
Lead	69		1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 46 (2) — Lab Sample ID: 410-50281-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	130	J	400	81	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	370	J	400	81	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	380	J	400	81	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	440		400	81	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	340	J	400	81	ug/Kg	10	☼	8270D	Total/NA
Chrysene	460		400	81	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	560		400	97	ug/Kg	10	☼	8270D	Total/NA
Pyrene	700		400	81	ug/Kg	10	☼	8270D	Total/NA
Lead	600		1.8	0.70	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 48 (2) — Lab Sample ID: 410-50281-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.65	J	7.9	0.64	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.3	J	7.9	0.95	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.5	J	16	2.2	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.93	J	7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.87	J	7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	19		19	3.9	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 48 (2) (Continued) — Lab Sample ID: 410-50281-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	15	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	27		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	45		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	79		19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	74		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	15		1.3	0.54	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1043-P5 (3) — Lab Sample ID: 410-50281-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3	J	9.5	0.95	ug/Kg	1	☼	8260C	Total/NA
Anthracene	110		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	290		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	300		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	150		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	280		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	43		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	470		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	470		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	560	F2	1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1043-P4 (3) — Lab Sample ID: 410-50281-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.6	J	8.7	0.87	ug/Kg	1	☼	8260C	Total/NA
Anthracene	420		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	3100		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2700		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2800		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1700		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	2600		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	54		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	820		21	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	4100		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Lead	880		1.5	0.61	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1043-P1 (3) — Lab Sample ID: 410-50281-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.6	J	8.2	0.82	ug/Kg	1	☼	8260C	Total/NA
Anthracene	66		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	210		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	160		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	110		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	200		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	28		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	280		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	350		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	87		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: Pipe 51 (2) — Lab Sample ID: 410-50281-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5	J	9.7	0.97	ug/Kg	1	☼	8260C	Total/NA
Anthracene	80	J	100	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	710		100	21	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	270		100	25	ug/Kg	1	☼	8270D	Total/NA
Pyrene	100		100	21	ug/Kg	1	☼	8270D	Total/NA
Lead	460		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 52 (2) — Lab Sample ID: 410-50281-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	18	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	28		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	34		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	40		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	64		23	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	39		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	110		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-3

Lab Sample ID: 410-50281-1

Date Collected: 08/06/21 00:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 85.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.8	J	6.1	0.49	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
1,2-Dichloroethane	ND		6.1	0.73	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
1,3,5-Trimethylbenzene	1.5	J	6.1	0.61	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
Toluene	12		6.1	0.73	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
Xylenes, Total	14		12	1.7	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
Methyl tertiary butyl ether	ND		6.1	0.61	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
Benzene	4.3	J	6.1	0.61	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
Naphthalene	3.6	J	6.1	2.4	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
1,2,4-Trimethylbenzene	7.3		6.1	0.61	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
Isopropylbenzene	0.54	J	6.1	0.49	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
1,2-Dibromoethane	ND		6.1	0.49	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/08/21 12:04*	*08/10/21 13:13*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/08/21 12:04*	*08/10/21 13:13*	*1*
Dibromofluoromethane (Surr)	*97*		*50 - 141*	*08/08/21 12:04*	*08/10/21 13:13*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/08/21 12:04*	*08/10/21 13:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	7.0	J	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Benzo[a]anthracene	19	FH F2	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Benzo[a]pyrene	22		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Benzo[b]fluoranthene	25		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Benzo[g,h,i]perylene	24		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Chrysene	20	F2	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Fluorene	4.9	J	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Phenanthrene	26	FH F2	19	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Pyrene	34	FH F2	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/10/21 09:37*	*08/10/21 16:36*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/10/21 09:37*	*08/10/21 16:36*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/10/21 09:37*	*08/10/21 16:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	26		1.6	0.63	mg/Kg	☼	08/09/21 03:32	08/11/21 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.6		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 7551-P5 (3)

Lab Sample ID: 410-50281-2

Date Collected: 08/06/21 10:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 93.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.5	0.44	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
1,2-Dichloroethane	ND		5.5	0.66	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1

Client Sample ID: 7551-P5 (3)

Lab Sample ID: 410-50281-2

Date Collected: 08/06/21 10:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 93.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
Toluene	ND		5.5	0.66	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
Methyl tertiary butyl ether	ND		5.5	0.55	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
Benzene	ND		5.5	0.55	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
Naphthalene	ND		5.5	2.2	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
1,2,4-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
Isopropylbenzene	ND		5.5	0.44	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
1,2-Dibromoethane	ND		5.5	0.44	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*54 - 135*	*08/08/21 12:04*	*08/10/21 17:23*	*1*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*	*08/08/21 12:04*	*08/10/21 17:23*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 141*	*08/08/21 12:04*	*08/10/21 17:23*	*1*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/08/21 12:04*	*08/10/21 17:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Benzo[a]anthracene	**8.0**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Benzo[a]pyrene	**11**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Benzo[b]fluoranthene	**15**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Benzo[g,h,i]perylene	**9.8**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Chrysene	**11**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Fluorene	ND		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Phenanthrene	**8.1**	**J**	18	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Pyrene	**16**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*39 - 100*	*08/10/21 09:37*	*08/10/21 17:44*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/10/21 09:37*	*08/10/21 17:44*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*08/10/21 09:37*	*08/10/21 17:44*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**25**		1.6	0.64	mg/Kg	☼	08/09/21 03:32	08/11/21 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.6**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 75 (2)

Lab Sample ID: 410-50281-3

Date Collected: 08/06/21 11:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 80.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**44**	**J**	320	25	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
1,2-Dichloroethane	ND		320	38	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
1,3,5-Trimethylbenzene	**100**	**J**	320	32	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
Toluene	**180**	**J**	320	38	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50

Client Sample ID: Pipe 75 (2)

Lab Sample ID: 410-50281-3

Date Collected: 08/06/21 11:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 80.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**240**	**J**	640	89	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
Methyl tertiary butyl ether	ND		320	32	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
Benzene	**39**	**J**	320	32	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
Naphthalene	ND		320	130	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
1,2,4-Trimethylbenzene	**65**	**J**	320	32	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
Isopropylbenzene	ND		320	25	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
1,2-Dibromoethane	ND		320	25	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*54 - 135*	*08/08/21 12:23*	*08/11/21 15:08*	*50*
4-Bromofluorobenzene (Surr)	*73*		*50 - 131*	*08/08/21 12:23*	*08/11/21 15:08*	*50*
Dibromofluoromethane (Surr)	*75*		*50 - 141*	*08/08/21 12:23*	*08/11/21 15:08*	*50*
Toluene-d8 (Surr)	*71*		*52 - 141*	*08/08/21 12:23*	*08/11/21 15:08*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Benzo[a]anthracene	**17**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Benzo[a]pyrene	**17**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Benzo[b]fluoranthene	**27**		21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Benzo[g,h,i]perylene	**30**		21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Chrysene	**18**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Fluorene	**15**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Phenanthrene	ND		21	4.9	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Pyrene	**48**		21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/10/21 09:37*	*08/10/21 18:06*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/10/21 09:37*	*08/10/21 18:06*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/10/21 09:37*	*08/10/21 18:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**190**		1.6	0.62	mg/Kg	☼	08/09/21 03:32	08/11/21 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.3**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 7551-P1 (3)

Lab Sample ID: 410-50281-4

Date Collected: 08/06/21 11:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 58.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.5	0.60	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
1,2-Dichloroethane	ND		7.5	0.90	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
1,3,5-Trimethylbenzene	**3.3**	**J**	7.5	0.75	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
Toluene	**1.9**	**J**	7.5	0.90	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
Xylenes, Total	**3.1**	**J**	15	2.1	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
Methyl tertiary butyl ether	ND		7.5	0.75	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1

Client Sample ID: 7551-P1 (3)

Lab Sample ID: 410-50281-4

Date Collected: 08/06/21 11:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 58.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.1**	**J**	7.5	0.75	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
Naphthalene	ND		7.5	3.0	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
1,2,4-Trimethylbenzene	**5.8**	**J**	7.5	0.75	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
Isopropylbenzene	ND		7.5	0.60	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
1,2-Dibromoethane	ND		7.5	0.60	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/08/21 12:27*	*08/10/21 13:36*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/08/21 12:27*	*08/10/21 13:36*	*1*
Dibromofluoromethane (Surr)	*99*		*50 - 141*	*08/08/21 12:27*	*08/10/21 13:36*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/08/21 12:27*	*08/10/21 13:36*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**99**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Benzo[a]anthracene	**330**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Benzo[a]pyrene	**260**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Benzo[b]fluoranthene	**370**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Benzo[g,h,i]perylene	**200**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Chrysene	**290**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Fluorene	**31**	**J**	56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Phenanthrene	**450**		56	13	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Pyrene	**710**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*08/10/21 09:37*	*08/10/21 18:29*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/10/21 09:37*	*08/10/21 18:29*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/10/21 09:37*	*08/10/21 18:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**42**		2.1	0.86	mg/Kg	☼	08/09/21 03:32	08/11/21 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**41.1**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 87 (2)

Lab Sample ID: 410-50281-5

Date Collected: 08/06/21 11:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 83.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**100**	**J**	330	26	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
1,2-Dichloroethane	ND		330	40	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
1,3,5-Trimethylbenzene	ND		330	33	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
Toluene	**79**	**J**	330	40	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
Xylenes, Total	**120**	**J**	660	93	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
Methyl tertiary butyl ether	ND		330	33	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
Benzene	ND		330	33	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
Naphthalene	ND		330	130	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50

Client Sample ID: Pipe 87 (2)

Lab Sample ID: 410-50281-5

Date Collected: 08/06/21 11:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 83.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	100	J	330	33	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
Isopropylbenzene	ND		330	26	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
1,2-Dibromoethane	ND		330	26	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*54 - 135*	*08/08/21 12:23*	*08/11/21 15:28*	*50*
4-Bromofluorobenzene (Surr)	*76*		*50 - 131*	*08/08/21 12:23*	*08/11/21 15:28*	*50*
Dibromofluoromethane (Surr)	*78*		*50 - 141*	*08/08/21 12:23*	*08/11/21 15:28*	*50*
Toluene-d8 (Surr)	*75*		*52 - 141*	*08/08/21 12:23*	*08/11/21 15:28*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	250		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Benzo[a]anthracene	570		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Benzo[a]pyrene	640		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Benzo[b]fluoranthene	730		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Benzo[g,h,i]perylene	590		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Chrysene	510		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Fluorene	180		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Phenanthrene	260		20	4.8	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Pyrene	1100		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/10/21 09:37*	*08/10/21 18:52*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/10/21 09:37*	*08/10/21 18:52*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/10/21 09:37*	*08/10/21 18:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	720		1.4	0.55	mg/Kg	☼	08/09/21 03:32	08/11/21 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.6		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 7551-P2 (3)

Lab Sample ID: 410-50281-6

Date Collected: 08/06/21 11:45
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 72.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.8	0.54	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
1,2-Dichloroethane	ND		6.8	0.82	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
1,3,5-Trimethylbenzene	ND		6.8	0.68	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
Toluene	ND		6.8	0.82	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
Xylenes, Total	ND		14	1.9	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
Methyl tertiary butyl ether	ND		6.8	0.68	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
Benzene	ND		6.8	0.68	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
Naphthalene	ND		6.8	2.7	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
1,2,4-Trimethylbenzene	ND		6.8	0.68	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
Isopropylbenzene	ND		6.8	0.54	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1

Client Sample ID: 7551-P2 (3)

Lab Sample ID: 410-50281-6

Date Collected: 08/06/21 11:45
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 72.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		6.8	0.54	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*	*08/08/21 12:28*	*08/10/21 16:38*	*1*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*	*08/08/21 12:28*	*08/10/21 16:38*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/08/21 12:28*	*08/10/21 16:38*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/08/21 12:28*	*08/10/21 16:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**2900**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1
Benzo[a]anthracene	**4300**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1
Benzo[a]pyrene	**3200**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1
Benzo[b]fluoranthene	**3500**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1
Benzo[g,h,i]perylene	**1800**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1
Chrysene	**3800**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1
Fluorene	**2200**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*08/10/21 09:37*	*08/10/21 19:15*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/10/21 09:37*	*08/10/21 19:15*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/10/21 09:37*	*08/10/21 19:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	**12000**		110	27	ug/Kg	☼	08/10/21 09:37	08/11/21 08:54	5
Pyrene	**7800**		110	23	ug/Kg	☼	08/10/21 09:37	08/11/21 08:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/10/21 09:37*	*08/11/21 08:54*	*5*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/10/21 09:37*	*08/11/21 08:54*	*5*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/10/21 09:37*	*08/11/21 08:54*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**37**		1.8	0.74	mg/Kg	☼	08/09/21 03:39	08/12/21 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.1**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 77 (2)

Lab Sample ID: 410-50281-7

Date Collected: 08/06/21 09:55
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 73.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**1400**		360	29	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
1,2-Dichloroethane	ND		360	44	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
1,3,5-Trimethylbenzene	**8100**		360	36	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
Toluene	**100**	**J**	360	44	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
Xylenes, Total	**3500**		730	100	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50

Client Sample ID: Pipe 77 (2)

Lab Sample ID: 410-50281-7

Date Collected: 08/06/21 09:55
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 73.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		360	36	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
Benzene	ND		360	36	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
Naphthalene	**2000**		360	150	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
1,2,4-Trimethylbenzene	**19000**		360	36	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
Isopropylbenzene	**1800**		360	29	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
1,2-Dibromoethane	ND		360	29	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*54 - 135*	*08/08/21 12:23*	*08/11/21 15:49*	*50*
4-Bromofluorobenzene (Surr)	*69*		*50 - 131*	*08/08/21 12:23*	*08/11/21 15:49*	*50*
Dibromofluoromethane (Surr)	*73*		*50 - 141*	*08/08/21 12:23*	*08/11/21 15:49*	*50*
Toluene-d8 (Surr)	*69*		*52 - 141*	*08/08/21 12:23*	*08/11/21 15:49*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Benzo[a]anthracene	**190**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Benzo[a]pyrene	**270**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Benzo[b]fluoranthene	**200**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Benzo[g,h,i]perylene	**270**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Chrysene	**370**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Fluorene	**900**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Phenanthrene	**870**		22	5.4	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Pyrene	**560**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*	*08/10/21 09:37*	*08/10/21 19:37*	*1*
Nitrobenzene-d5 (Surr)	*82*		*32 - 97*	*08/10/21 09:37*	*08/10/21 19:37*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/10/21 09:37*	*08/10/21 19:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**210**		1.8	0.71	mg/Kg	☼	08/09/21 03:32	08/11/21 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26.8**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 76 (2)

Lab Sample ID: 410-50281-8

Date Collected: 08/06/21 12:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 91.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		4.8	0.38	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
1,2-Dichloroethane	ND		4.8	0.57	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
1,3,5-Trimethylbenzene	ND		4.8	0.48	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
Toluene	ND		4.8	0.57	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
Xylenes, Total	ND		9.5	1.3	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
Methyl tertiary butyl ether	**1.1**	**J**	4.8	0.48	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
Benzene	ND		4.8	0.48	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1

Client Sample ID: Pipe 76 (2)

Lab Sample ID: 410-50281-8

Date Collected: 08/06/21 12:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 91.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.8	1.9	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
1,2,4-Trimethylbenzene	ND		4.8	0.48	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
Isopropylbenzene	ND		4.8	0.38	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
1,2-Dibromoethane	ND		4.8	0.38	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*54 - 135*	*08/08/21 12:28*	*08/10/21 13:59*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/08/21 12:28*	*08/10/21 13:59*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 12:28*	*08/10/21 13:59*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/08/21 12:28*	*08/10/21 13:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**14**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Benzo[a]anthracene	**83**		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Benzo[a]pyrene	**120**		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Benzo[b]fluoranthene	**190**		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Benzo[g,h,i]perylene	**150**		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Chrysene	**140**		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Fluorene	**5.6**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Phenanthrene	**76**		18	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Pyrene	**180**		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*39 - 100*	*08/10/21 09:37*	*08/10/21 20:00*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*08/10/21 09:37*	*08/10/21 20:00*	*1*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*	*08/10/21 09:37*	*08/10/21 20:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**270**		1.6	0.62	mg/Kg	☼	08/09/21 03:39	08/12/21 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 7551-P3 (3)

Lab Sample ID: 410-50281-9

Date Collected: 08/06/21 12:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 71.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.3	0.50	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
1,2-Dichloroethane	ND		6.3	0.75	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
1,3,5-Trimethylbenzene	**0.71**	**J**	6.3	0.63	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
Toluene	**0.84**	**J**	6.3	0.75	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
Xylenes, Total	ND		13	1.8	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
Methyl tertiary butyl ether	ND		6.3	0.63	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
Benzene	**0.85**	**J**	6.3	0.63	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
Naphthalene	ND		6.3	2.5	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
1,2,4-Trimethylbenzene	**0.77**	**J**	6.3	0.63	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1

Client Sample ID: 7551-P3 (3)

Lab Sample ID: 410-50281-9

Date Collected: 08/06/21 12:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 71.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		6.3	0.50	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
1,2-Dibromoethane	ND		6.3	0.50	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/08/21 12:28*	*08/10/21 14:22*	*1*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/08/21 12:28*	*08/10/21 14:22*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 141*	*08/08/21 12:28*	*08/10/21 14:22*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/08/21 12:28*	*08/10/21 14:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**65**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Benzo[a]anthracene	**220**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Benzo[a]pyrene	**200**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Benzo[b]fluoranthene	**230**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Benzo[g,h,i]perylene	**140**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Chrysene	**210**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Fluorene	**32**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Phenanthrene	**260**		23	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Pyrene	**340**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*39 - 100*	*08/10/21 09:37*	*08/10/21 20:23*	*1*
Nitrobenzene-d5 (Surr)	*78*		*32 - 97*	*08/10/21 09:37*	*08/10/21 20:23*	*1*
p-Terphenyl-d14 (Surr)	*90*		*45 - 108*	*08/10/21 09:37*	*08/10/21 20:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**44**		1.9	0.76	mg/Kg	☼	08/09/21 03:39	08/12/21 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.6**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-50281-10

Date Collected: 08/06/21 00:00
Matrix: Water
Date Received: 08/06/21 15:23

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/10/21 20:55	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/10/21 20:55	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/10/21 20:55	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:55	1
Toluene	ND		1.0	0.30	ug/L			08/10/21 20:55	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/10/21 20:55	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/10/21 20:55	1
Benzene	ND		1.0	0.30	ug/L			08/10/21 20:55	1
Naphthalene	ND		5.0	1.0	ug/L			08/10/21 20:55	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/10/21 20:55	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:55	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-50281-10

Date Collected: 08/06/21 00:00

Matrix: Water

Date Received: 08/06/21 15:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*08/10/21 20:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/10/21 20:55*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*08/10/21 20:55*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/10/21 20:55*	*1*

Client Sample ID: Pipe 53 (2)

Lab Sample ID: 410-50281-11

Date Collected: 08/05/21 14:15

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 74.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.9	0.71	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
1,2-Dichloroethane	ND		8.9	1.1	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
1,3,5-Trimethylbenzene	ND	*3	8.9	0.89	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
Toluene	ND		8.9	1.1	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
Xylenes, Total	ND		18	2.5	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
Methyl tertiary butyl ether	ND		8.9	0.89	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
Benzene	ND		8.9	0.89	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
Naphthalene	ND	*3	8.9	3.6	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
1,2,4-Trimethylbenzene	ND	*3	8.9	0.89	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
Isopropylbenzene	ND		8.9	0.71	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
1,2-Dibromoethane	ND		8.9	0.71	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/08/21 12:28*	*08/10/21 14:44*	*1*
4-Bromofluorobenzene (Surr)	*72*		*50 - 131*	*08/08/21 12:28*	*08/10/21 14:44*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 12:28*	*08/10/21 14:44*	*1*
Toluene-d8 (Surr)	*110*		*52 - 141*	*08/08/21 12:28*	*08/10/21 14:44*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Benzo[a]anthracene	**170**	**J**	220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Benzo[a]pyrene	**220**		220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Benzo[b]fluoranthene	**230**		220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Benzo[g,h,i]perylene	**160**	**J**	220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Chrysene	**170**	**J**	220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Fluorene	ND		220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Phenanthrene	**56**	**J**	220	54	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Pyrene	**220**		220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*08/10/21 09:43*	*08/12/21 07:05*	*5*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/10/21 09:43*	*08/12/21 07:05*	*5*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/10/21 09:43*	*08/12/21 07:05*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**83**		1.4	0.58	mg/Kg	☼	08/09/21 03:39	08/12/21 10:22	1

Client Sample ID: Pipe 53 (2)

Lab Sample ID: 410-50281-11
Date Collected: 08/05/21 14:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 74.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.4		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 1044-P4 (3)

Lab Sample ID: 410-50281-12
Date Collected: 08/05/21 14:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 73.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.7	0.54	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
1,2-Dichloroethane	ND		6.7	0.80	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
1,3,5-Trimethylbenzene	ND		6.7	0.67	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
Toluene	ND		6.7	0.80	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
Xylenes, Total	ND		13	1.9	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
Methyl tertiary butyl ether	ND		6.7	0.67	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
Benzene	1.3	J	6.7	0.67	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
Naphthalene	ND		6.7	2.7	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
1,2,4-Trimethylbenzene	ND		6.7	0.67	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
Isopropylbenzene	ND		6.7	0.54	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
1,2-Dibromoethane	ND		6.7	0.54	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/08/21 12:28*	*08/10/21 17:00*	*1*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/08/21 12:28*	*08/10/21 17:00*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 12:28*	*08/10/21 17:00*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/08/21 12:28*	*08/10/21 17:00*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	64		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Benzo[a]anthracene	120		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Benzo[a]pyrene	95		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Benzo[b]fluoranthene	120		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Benzo[g,h,i]perylene	77		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Chrysene	120		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Fluorene	37		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Phenanthrene	99		23	5.4	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Pyrene	150		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/10/21 09:43*	*08/12/21 05:12*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/10/21 09:43*	*08/12/21 05:12*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*08/10/21 09:43*	*08/12/21 05:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2100		1.9	0.78	mg/Kg	☼	08/09/21 03:39	08/12/21 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.7		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 55 (2)

Lab Sample ID: 410-50281-13

Date Collected: 08/05/21 14:40
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 69.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		600	48	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
1,2-Dichloroethane	ND		600	72	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
1,3,5-Trimethylbenzene	ND		600	60	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
Toluene	ND		600	72	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
Xylenes, Total	ND		1200	170	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
Methyl tertiary butyl ether	ND		600	60	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
Benzene	ND		600	60	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
Naphthalene	ND		600	240	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
1,2,4-Trimethylbenzene	ND		600	60	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
Isopropylbenzene	ND		600	48	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
1,2-Dibromoethane	ND		600	48	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*54 - 135*	*08/08/21 11:15*	*08/11/21 16:10*	*50*
4-Bromofluorobenzene (Surr)	*75*		*50 - 131*	*08/08/21 11:15*	*08/11/21 16:10*	*50*
Dibromofluoromethane (Surr)	*89*		*50 - 141*	*08/08/21 11:15*	*08/11/21 16:10*	*50*
Toluene-d8 (Surr)	*83*		*52 - 141*	*08/08/21 11:15*	*08/11/21 16:10*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**110**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Benzo[a]anthracene	**510**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Benzo[a]pyrene	**460**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Benzo[b]fluoranthene	**580**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Benzo[g,h,i]perylene	**330**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Chrysene	**580**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Fluorene	**92**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Phenanthrene	**1100**		23	5.6	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Pyrene	**930**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/10/21 09:43*	*08/12/21 05:35*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/10/21 09:43*	*08/12/21 05:35*	*1*
p-Terphenyl-d14 (Surr)	*77*		*45 - 108*	*08/10/21 09:43*	*08/12/21 05:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**750**	**F2**	1.8	0.73	mg/Kg	☼	08/09/21 03:39	08/12/21 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.1**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 78 (2)

Lab Sample ID: 410-50281-14

Date Collected: 08/06/21 09:05
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 59.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**140**	**J**	550	44	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
1,2-Dichloroethane	ND		550	65	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50

Client Sample ID: Pipe 78 (2)

Lab Sample ID: 410-50281-14

Date Collected: 08/06/21 09:05
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 59.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1100		550	55	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
Toluene	110	J	550	65	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
Xylenes, Total	470	J	1100	150	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
Methyl tertiary butyl ether	ND		550	55	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
Benzene	ND		550	55	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
Naphthalene	290	J	550	220	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
1,2,4-Trimethylbenzene	2200		550	55	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
Isopropylbenzene	180	J	550	44	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
1,2-Dibromoethane	ND		550	44	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*54 - 135*	*08/08/21 11:15*	*08/11/21 16:31*	*50*
4-Bromofluorobenzene (Surr)	*77*		*50 - 131*	*08/08/21 11:15*	*08/11/21 16:31*	*50*
Dibromofluoromethane (Surr)	*82*		*50 - 141*	*08/08/21 11:15*	*08/11/21 16:31*	*50*
Toluene-d8 (Surr)	*78*		*52 - 141*	*08/08/21 11:15*	*08/11/21 16:31*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	31		28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Benzo[a]anthracene	22	J	28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Benzo[a]pyrene	21	J	28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Benzo[b]fluoranthene	40		28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Benzo[g,h,i]perylene	56		28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Chrysene	30		28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Fluorene	ND		28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Phenanthrene	64		28	6.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Pyrene	54		28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/10/21 09:37*	*08/10/21 20:45*	*1*
Nitrobenzene-d5 (Surr)	*81*		*32 - 97*	*08/10/21 09:37*	*08/10/21 20:45*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*08/10/21 09:37*	*08/10/21 20:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	94		1.9	0.74	mg/Kg	☼	08/09/21 03:39	08/12/21 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	40.1		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 79 (2)

Lab Sample ID: 410-50281-15

Date Collected: 08/06/21 09:40
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1700		250	20	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
1,2-Dichloroethane	ND		250	30	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
1,3,5-Trimethylbenzene	39	J	250	25	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
Toluene	ND		250	30	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50

Client Sample ID: Pipe 79 (2)
Date Collected: 08/06/21 09:40
Date Received: 08/06/21 15:23

Lab Sample ID: 410-50281-15
Matrix: Solid
Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	110	J	510	71	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
Benzene	26	J	250	25	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
Naphthalene	820		250	100	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
Isopropylbenzene	1000		250	20	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
1,2-Dibromoethane	ND		250	20	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*54 - 135*	*08/08/21 11:15*	*08/11/21 16:52*	*50*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*	*08/08/21 11:15*	*08/11/21 16:52*	*50*
Dibromofluoromethane (Surr)	*83*		*50 - 141*	*08/08/21 11:15*	*08/11/21 16:52*	*50*
Toluene-d8 (Surr)	*83*		*52 - 141*	*08/08/21 11:15*	*08/11/21 16:52*	*50*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	27000		2500	250	ug/Kg	☼	08/08/21 11:15	08/12/21 12:03	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*54 - 135*	*08/08/21 11:15*	*08/12/21 12:03*	*500*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/08/21 11:15*	*08/12/21 12:03*	*500*
Dibromofluoromethane (Surr)	*82*		*50 - 141*	*08/08/21 11:15*	*08/12/21 12:03*	*500*
Toluene-d8 (Surr)	*82*		*52 - 141*	*08/08/21 11:15*	*08/12/21 12:03*	*500*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	35		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Benzo[a]anthracene	62		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Benzo[a]pyrene	47		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Benzo[b]fluoranthene	44		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Benzo[g,h,i]perylene	41		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Chrysene	80		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Fluorene	130		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Phenanthrene	190		18	4.4	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Pyrene	100		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*	*08/10/21 09:37*	*08/10/21 21:08*	*1*
Nitrobenzene-d5 (Surr)	*77*		*32 - 97*	*08/10/21 09:37*	*08/10/21 21:08*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*08/10/21 09:37*	*08/10/21 21:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		1.3	0.51	mg/Kg	☼	08/09/21 03:39	08/12/21 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 7551-P7 (3)

Lab Sample ID: 410-50281-16

Date Collected: 08/06/21 09:45
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 83.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**42**	**J**	340	27	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
1,2-Dichloroethane	ND		340	41	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
1,3,5-Trimethylbenzene	**180**	**J**	340	34	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
Toluene	**220**	**J**	340	41	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
Xylenes, Total	**300**	**J**	680	95	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
Methyl tertiary butyl ether	ND		340	34	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
Benzene	ND		340	34	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
Naphthalene	ND		340	140	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
1,2,4-Trimethylbenzene	**420**		340	34	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
Isopropylbenzene	ND		340	27	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
1,2-Dibromoethane	ND		340	27	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*73*		*54 - 135*	*08/08/21 11:15*	*08/11/21 17:12*	*50*
4-Bromofluorobenzene (Surr)	*78*		*50 - 131*	*08/08/21 11:15*	*08/11/21 17:12*	*50*
Dibromofluoromethane (Surr)	*65*		*50 - 141*	*08/08/21 11:15*	*08/11/21 17:12*	*50*
Toluene-d8 (Surr)	*68*		*52 - 141*	*08/08/21 11:15*	*08/11/21 17:12*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**18**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Benzo[a]anthracene	**26**		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Benzo[a]pyrene	**39**		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Benzo[b]fluoranthene	**48**		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Benzo[g,h,i]perylene	**95**		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Chrysene	**34**		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Fluorene	ND		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Phenanthrene	**35**		20	4.8	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Pyrene	**44**		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*39 - 100*	*08/10/21 09:37*	*08/10/21 21:31*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*08/10/21 09:37*	*08/10/21 21:31*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/10/21 09:37*	*08/10/21 21:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**18**		1.6	0.65	mg/Kg	☼	08/09/21 03:39	08/12/21 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.0**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 82 (2)

Lab Sample ID: 410-50281-17

Date Collected: 08/06/21 10:10
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 70.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**1.0**	**J**	7.3	0.58	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
1,2-Dichloroethane	ND		7.3	0.87	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1

Client Sample ID: Pipe 82 (2)

Lab Sample ID: 410-50281-17

Date Collected: 08/06/21 10:10
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 70.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.73	J	7.3	0.73	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
Toluene	6.8	J	7.3	0.87	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
Xylenes, Total	5.9	J	15	2.0	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
Methyl tertiary butyl ether	ND		7.3	0.73	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
Benzene	6.2	J	7.3	0.73	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
Naphthalene	ND		7.3	2.9	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
1,2,4-Trimethylbenzene	1.2	J	7.3	0.73	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
Isopropylbenzene	ND		7.3	0.58	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
1,2-Dibromoethane	ND		7.3	0.58	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*54 - 135*	*08/08/21 11:15*	*08/10/21 17:46*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/08/21 11:15*	*08/10/21 17:46*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 11:15*	*08/10/21 17:46*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/08/21 11:15*	*08/10/21 17:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	110		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Benzo[a]anthracene	360		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Benzo[a]pyrene	390		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Benzo[b]fluoranthene	510		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Benzo[g,h,i]perylene	390		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Chrysene	390		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Fluorene	32		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Phenanthrene	450		24	5.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Pyrene	570		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*08/11/21 17:48*	*08/12/21 22:25*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/11/21 17:48*	*08/12/21 22:25*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/11/21 17:48*	*08/12/21 22:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	200		1.9	0.78	mg/Kg	☼	08/09/21 03:39	08/12/21 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29.9		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 7551-P6 (3)

Lab Sample ID: 410-50281-18

Date Collected: 08/06/21 10:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 66.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4100		460	37	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
1,2-Dichloroethane	ND		460	55	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
1,3,5-Trimethylbenzene	15000		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
Toluene	8400		460	55	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50

Client Sample ID: 7551-P6 (3)
Date Collected: 08/06/21 10:15
Date Received: 08/06/21 15:23

Lab Sample ID: 410-50281-18
Matrix: Solid
Percent Solids: 66.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	31000		920	130	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
Methyl tertiary butyl ether	ND		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
Benzene	720		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
Naphthalene	1100		460	180	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
Isopropylbenzene	2000		460	37	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
1,2-Dibromoethane	ND		460	37	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*54 - 135*	*08/08/21 11:15*	*08/11/21 17:33*	*50*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/08/21 11:15*	*08/11/21 17:33*	*50*
Dibromofluoromethane (Surr)	*81*		*50 - 141*	*08/08/21 11:15*	*08/11/21 17:33*	*50*
Toluene-d8 (Surr)	*85*		*52 - 141*	*08/08/21 11:15*	*08/11/21 17:33*	*50*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	51000		4600	460	ug/Kg	☼	08/08/21 11:15	08/12/21 12:24	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*54 - 135*	*08/08/21 11:15*	*08/12/21 12:24*	*500*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/08/21 11:15*	*08/12/21 12:24*	*500*
Dibromofluoromethane (Surr)	*77*		*50 - 141*	*08/08/21 11:15*	*08/12/21 12:24*	*500*
Toluene-d8 (Surr)	*79*		*52 - 141*	*08/08/21 11:15*	*08/12/21 12:24*	*500*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	21	J	25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Benzo[a]anthracene	26		25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Benzo[a]pyrene	17	J	25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Benzo[b]fluoranthene	29		25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Benzo[g,h,i]perylene	43		25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Chrysene	63		25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Fluorene	31		25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Phenanthrene	74		25	6.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Pyrene	36		25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/10/21 09:37*	*08/10/21 22:16*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/10/21 09:37*	*08/10/21 22:16*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/10/21 09:37*	*08/10/21 22:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21		2.3	0.90	mg/Kg	☼	08/09/21 03:39	08/12/21 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	33.7		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 81 (2)

Lab Sample ID: 410-50281-19

Date Collected: 08/06/21 10:25
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 80.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.4	J	5.6	0.44	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
1,2-Dichloroethane	1.3	J	5.6	0.67	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
1,3,5-Trimethylbenzene	ND		5.6	0.56	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
Toluene	31		5.6	0.67	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
Xylenes, Total	7.3	J	11	1.6	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
Methyl tertiary butyl ether	ND		5.6	0.56	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
Benzene	12		5.6	0.56	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
Naphthalene	ND		5.6	2.2	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
1,2,4-Trimethylbenzene	1.1	J	5.6	0.56	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
Isopropylbenzene	ND		5.6	0.44	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
1,2-Dibromoethane	ND		5.6	0.44	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*54 - 135*	*08/08/21 11:15*	*08/11/21 14:10*	*1*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/08/21 11:15*	*08/11/21 14:10*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*	*08/08/21 11:15*	*08/11/21 14:10*	*1*
Toluene-d8 (Surr)	*100*		*52 - 141*	*08/08/21 11:15*	*08/11/21 14:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	48		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Benzo[a]anthracene	120		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Benzo[a]pyrene	330		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Benzo[b]fluoranthene	370		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Benzo[g,h,i]perylene	430		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Chrysene	130		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Fluorene	12	J	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Phenanthrene	97		20	4.9	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Pyrene	140		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/10/21 17:56*	*08/11/21 12:18*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/10/21 17:56*	*08/11/21 12:18*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*08/10/21 17:56*	*08/11/21 12:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	500		1.4	0.56	mg/Kg	☼	08/09/21 03:32	08/11/21 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.8		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 83 (2)

Lab Sample ID: 410-50281-20

Date Collected: 08/06/21 10:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.4	0.43	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
1,2-Dichloroethane	ND		5.4	0.65	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1

Client Sample ID: Pipe 83 (2)

Lab Sample ID: 410-50281-20

Date Collected: 08/06/21 10:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.4	0.54	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
Toluene	**5.5**		5.4	0.65	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
Xylenes, Total	**2.8**	**J**	11	1.5	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
Methyl tertiary butyl ether	ND		5.4	0.54	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
Benzene	**3.8**	**J**	5.4	0.54	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
Naphthalene	ND		5.4	2.2	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
1,2,4-Trimethylbenzene	**0.58**	**J**	5.4	0.54	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
Isopropylbenzene	ND		5.4	0.43	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
1,2-Dibromoethane	ND		5.4	0.43	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*54 - 135*	*08/08/21 11:15*	*08/10/21 15:30*	*1*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*	*08/08/21 11:15*	*08/10/21 15:30*	*1*
Dibromofluoromethane (Surr)	*99*		*50 - 141*	*08/08/21 11:15*	*08/10/21 15:30*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/08/21 11:15*	*08/10/21 15:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**55**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Benzo[a]anthracene	**350**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Benzo[a]pyrene	**330**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Benzo[b]fluoranthene	**490**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Benzo[g,h,i]perylene	**300**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Chrysene	**370**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Fluorene	**15**	**J**	20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Phenanthrene	**190**		20	4.8	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Pyrene	**560**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/10/21 17:56*	*08/11/21 12:40*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/10/21 17:56*	*08/11/21 12:40*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/10/21 17:56*	*08/11/21 12:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**76**		1.2	0.50	mg/Kg	☼	08/09/21 03:32	08/11/21 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.6**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 80 (2)

Lab Sample ID: 410-50281-21

Date Collected: 08/06/21 10:40
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 87.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**3.8**	**J**	5.9	0.47	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
1,2-Dichloroethane	ND		5.9	0.71	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
1,3,5-Trimethylbenzene	**1.4**	**J**	5.9	0.59	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
Toluene	**11**		5.9	0.71	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1

Client Sample ID: Pipe 80 (2)

Lab Sample ID: 410-50281-21

Date Collected: 08/06/21 10:40
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 87.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**12**		12	1.7	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
Methyl tertiary butyl ether	ND		5.9	0.59	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
Benzene	**3.8**	**J**	5.9	0.59	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
Naphthalene	ND		5.9	2.4	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
1,2,4-Trimethylbenzene	**5.7**	**J**	5.9	0.59	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
Isopropylbenzene	ND		5.9	0.47	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
1,2-Dibromoethane	ND		5.9	0.47	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/08/21 11:15*	*08/11/21 14:56*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/08/21 11:15*	*08/11/21 14:56*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 141*	*08/08/21 11:15*	*08/11/21 14:56*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/08/21 11:15*	*08/11/21 14:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**33**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Benzo[a]anthracene	**57**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Benzo[a]pyrene	**94**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Benzo[b]fluoranthene	**100**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Benzo[g,h,i]perylene	**110**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Chrysene	**65**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Fluorene	**21**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Phenanthrene	**110**		19	4.6	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Pyrene	**120**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*08/10/21 17:56*	*08/11/21 13:03*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/10/21 17:56*	*08/11/21 13:03*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/10/21 17:56*	*08/11/21 13:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**30**		1.4	0.56	mg/Kg	☼	08/09/21 03:32	08/11/21 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.9**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 50 (2)

Lab Sample ID: 410-50281-22

Date Collected: 08/05/21 12:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.7	0.61	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
1,2-Dichloroethane	ND		7.7	0.92	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
1,3,5-Trimethylbenzene	ND		7.7	0.77	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
Toluene	ND		7.7	0.92	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
Xylenes, Total	ND		15	2.2	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
Methyl tertiary butyl ether	ND		7.7	0.77	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1

Client Sample ID: Pipe 50 (2)

Lab Sample ID: 410-50281-22

Date Collected: 08/05/21 12:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		7.7	0.77	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
Naphthalene	ND		7.7	3.1	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
1,2,4-Trimethylbenzene	ND		7.7	0.77	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
Isopropylbenzene	ND		7.7	0.61	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
1,2-Dibromoethane	ND		7.7	0.61	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*54 - 135*	*08/08/21 11:15*	*08/10/21 15:52*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/08/21 11:15*	*08/10/21 15:52*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 11:15*	*08/10/21 15:52*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/08/21 11:15*	*08/10/21 15:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Benzo[a]anthracene	**9.8**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Benzo[a]pyrene	**6.2**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Benzo[b]fluoranthene	**9.9**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Benzo[g,h,i]perylene	**11**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Chrysene	**9.7**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Fluorene	ND		21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Phenanthrene	**10**	**J**	21	5.0	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Pyrene	**13**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/10/21 09:43*	*08/12/21 05:57*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/10/21 09:43*	*08/12/21 05:57*	*1*
p-Terphenyl-d14 (Surr)	*74*		*45 - 108*	*08/10/21 09:43*	*08/12/21 05:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**320**		1.7	0.69	mg/Kg	☼	08/09/21 03:32	08/11/21 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.2**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 49 (2)

Lab Sample ID: 410-50281-23

Date Collected: 08/05/21 12:55
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 83.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.0	0.56	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
1,2-Dichloroethane	ND		7.0	0.84	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
1,3,5-Trimethylbenzene	ND		7.0	0.70	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
Toluene	ND		7.0	0.84	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
Xylenes, Total	ND		14	1.9	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
Methyl tertiary butyl ether	ND		7.0	0.70	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
Benzene	**1.1**	**J**	7.0	0.70	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
Naphthalene	ND		7.0	2.8	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1

Client Sample ID: Pipe 49 (2)

Lab Sample ID: 410-50281-23

Date Collected: 08/05/21 12:55
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 83.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		7.0	0.70	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
Isopropylbenzene	ND		7.0	0.56	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
1,2-Dibromoethane	ND		7.0	0.56	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/08/21 12:04*	*08/10/21 18:08*	*1*
4-Bromofluorobenzene (Surr)	*78*		*50 - 131*	*08/08/21 12:04*	*08/10/21 18:08*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/08/21 12:04*	*08/10/21 18:08*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/08/21 12:04*	*08/10/21 18:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**13**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Benzo[a]anthracene	**19**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Benzo[a]pyrene	**20**		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Benzo[b]fluoranthene	**27**		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Benzo[g,h,i]perylene	**22**		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Chrysene	**25**		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Fluorene	ND		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Phenanthrene	**52**		20	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Pyrene	**50**		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/10/21 09:43*	*08/12/21 06:20*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/10/21 09:43*	*08/12/21 06:20*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/10/21 09:43*	*08/12/21 06:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**78**		1.4	0.55	mg/Kg	☼	08/09/21 03:32	08/11/21 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.1**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 45 (2)

Lab Sample ID: 410-50281-24

Date Collected: 08/05/21 13:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 84.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		470	37	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
1,2-Dichloroethane	ND		470	56	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
1,3,5-Trimethylbenzene	ND		470	47	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
Toluene	ND		470	56	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
Xylenes, Total	ND		940	130	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
Methyl tertiary butyl ether	ND		470	47	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
Benzene	ND		470	47	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
Naphthalene	ND		470	190	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
1,2,4-Trimethylbenzene	**75**	**J**	470	47	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
Isopropylbenzene	ND		470	37	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50

Client Sample ID: Pipe 45 (2)

Lab Sample ID: 410-50281-24

Date Collected: 08/05/21 13:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 84.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		470	37	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*54 - 135*	*08/08/21 11:15*	*08/11/21 17:54*	*50*
4-Bromofluorobenzene (Surr)	*66*		*50 - 131*	*08/08/21 11:15*	*08/11/21 17:54*	*50*
Dibromofluoromethane (Surr)	*76*		*50 - 141*	*08/08/21 11:15*	*08/11/21 17:54*	*50*
Toluene-d8 (Surr)	*72*		*52 - 141*	*08/08/21 11:15*	*08/11/21 17:54*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**22**		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Benzo[a]anthracene	**6.7**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Benzo[a]pyrene	**6.7**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Benzo[b]fluoranthene	**14**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Benzo[g,h,i]perylene	**9.3**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Chrysene	**11**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Fluorene	ND		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Phenanthrene	**32**		20	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Pyrene	**15**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/10/21 09:43*	*08/12/21 06:43*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/10/21 09:43*	*08/12/21 06:43*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/10/21 09:43*	*08/12/21 06:43*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**330**		1.7	0.68	mg/Kg	☼	08/09/21 03:32	08/11/21 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.7**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 47 (2)

Lab Sample ID: 410-50281-25

Date Collected: 08/05/21 13:05
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 86.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		510	41	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
1,2-Dichloroethane	ND		510	61	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
1,3,5-Trimethylbenzene	ND		510	51	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
Toluene	ND		510	61	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
Xylenes, Total	ND		1000	140	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
Methyl tertiary butyl ether	ND		510	51	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
Benzene	ND		510	51	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
Naphthalene	ND		510	200	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
1,2,4-Trimethylbenzene	ND		510	51	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
Isopropylbenzene	ND		510	41	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
1,2-Dibromoethane	ND		510	41	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50

Client Sample ID: Pipe 47 (2)

Lab Sample ID: 410-50281-25

Date Collected: 08/05/21 13:05
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 86.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*54 - 135*	*08/08/21 11:15*	*08/11/21 18:15*	*50*
4-Bromofluorobenzene (Surr)	*68*		*50 - 131*	*08/08/21 11:15*	*08/11/21 18:15*	*50*
Dibromofluoromethane (Surr)	*79*		*50 - 141*	*08/08/21 11:15*	*08/11/21 18:15*	*50*
Toluene-d8 (Surr)	*72*		*52 - 141*	*08/08/21 11:15*	*08/11/21 18:15*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Benzo[a]anthracene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Benzo[a]pyrene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Benzo[b]fluoranthene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Benzo[g,h,i]perylene	**80**	**J**	190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Chrysene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Fluorene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Phenanthrene	ND		190	46	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Pyrene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*39 - 100*	*08/10/21 09:43*	*08/12/21 07:27*	*10*
Nitrobenzene-d5 (Surr)	*59*		*32 - 97*	*08/10/21 09:43*	*08/12/21 07:27*	*10*
p-Terphenyl-d14 (Surr)	*66*		*45 - 108*	*08/10/21 09:43*	*08/12/21 07:27*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**69**		1.5	0.59	mg/Kg	☼	08/09/21 03:32	08/11/21 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.8**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 46 (2)

Lab Sample ID: 410-50281-26

Date Collected: 08/05/21 13:10
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 81.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		460	37	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
1,2-Dichloroethane	ND		460	55	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
1,3,5-Trimethylbenzene	ND		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
Toluene	ND		460	55	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
Xylenes, Total	ND		920	130	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
Methyl tertiary butyl ether	ND		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
Benzene	ND		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
Naphthalene	ND		460	180	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
1,2,4-Trimethylbenzene	ND		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
Isopropylbenzene	ND		460	37	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
1,2-Dibromoethane	ND		460	37	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*54 - 135*	*08/08/21 11:15*	*08/11/21 18:36*	*50*
4-Bromofluorobenzene (Surr)	*72*		*50 - 131*	*08/08/21 11:15*	*08/11/21 18:36*	*50*
Dibromofluoromethane (Surr)	*82*		*50 - 141*	*08/08/21 11:15*	*08/11/21 18:36*	*50*

Client Sample ID: Pipe 46 (2)

Lab Sample ID: 410-50281-26

Date Collected: 08/05/21 13:10
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 81.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*78*		*52 - 141*	*08/08/21 11:15*	*08/11/21 18:36*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**130**	**J**	400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Benzo[a]anthracene	**370**	**J**	400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Benzo[a]pyrene	**380**	**J**	400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Benzo[b]fluoranthene	**440**		400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Benzo[g,h,i]perylene	**340**	**J**	400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Chrysene	**460**		400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Fluorene	ND		400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Phenanthrene	**560**		400	97	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Pyrene	**700**		400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*69*		*39 - 100*	*08/10/21 09:43*	*08/12/21 07:50*	*10*
Nitrobenzene-d5 (Surr)	*49*		*32 - 97*	*08/10/21 09:43*	*08/12/21 07:50*	*10*
p-Terphenyl-d14 (Surr)	*75*		*45 - 108*	*08/10/21 09:43*	*08/12/21 07:50*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**600**		1.8	0.70	mg/Kg	☼	08/09/21 03:32	08/11/21 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.6**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 48 (2)

Lab Sample ID: 410-50281-27

Date Collected: 08/05/21 13:20
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 85.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**0.65**	**J**	7.9	0.64	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
1,2-Dichloroethane	ND		7.9	0.95	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
1,3,5-Trimethylbenzene	ND		7.9	0.79	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
Toluene	**2.3**	**J**	7.9	0.95	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
Xylenes, Total	**3.5**	**J**	16	2.2	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
Methyl tertiary butyl ether	ND		7.9	0.79	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
Benzene	**0.93**	**J**	7.9	0.79	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
Naphthalene	ND		7.9	3.2	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
1,2,4-Trimethylbenzene	**0.87**	**J**	7.9	0.79	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
Isopropylbenzene	ND		7.9	0.64	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
1,2-Dibromoethane	ND		7.9	0.64	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*115*		*54 - 135*	*08/08/21 11:15*	*08/10/21 18:31*	*1*
4-Bromofluorobenzene (Surr)	*80*		*50 - 131*	*08/08/21 11:15*	*08/10/21 18:31*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/08/21 11:15*	*08/10/21 18:31*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/08/21 11:15*	*08/10/21 18:31*	*1*

Client Sample ID: Pipe 48 (2)

Lab Sample ID: 410-50281-27

Date Collected: 08/05/21 13:20
Date Received: 08/06/21 15:23

Matrix: Solid
Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Benzo[a]anthracene	**19**		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Benzo[a]pyrene	**15**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Benzo[b]fluoranthene	**14**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Benzo[g,h,i]perylene	**27**		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Chrysene	**45**		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Fluorene	ND		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Phenanthrene	**79**		19	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Pyrene	**74**		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*	*08/10/21 09:37*	*08/10/21 22:38*	*1*
Nitrobenzene-d5 (Surr)	*62*		*32 - 97*	*08/10/21 09:37*	*08/10/21 22:38*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/10/21 09:37*	*08/10/21 22:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**15**		1.3	0.54	mg/Kg	☼	08/09/21 03:32	08/11/21 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.7**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: 1043-P5 (3)

Lab Sample ID: 410-50281-28

Date Collected: 08/05/21 13:25
Date Received: 08/06/21 15:23

Matrix: Solid
Percent Solids: 79.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.5	0.76	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
1,2-Dichloroethane	ND		9.5	1.1	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
1,3,5-Trimethylbenzene	ND		9.5	0.95	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
Toluene	ND		9.5	1.1	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
Xylenes, Total	ND		19	2.7	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
Methyl tertiary butyl ether	ND		9.5	0.95	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
Benzene	**1.3**	**J**	9.5	0.95	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
Naphthalene	ND		9.5	3.8	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
1,2,4-Trimethylbenzene	ND		9.5	0.95	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
Isopropylbenzene	ND		9.5	0.76	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
1,2-Dibromoethane	ND		9.5	0.76	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/08/21 11:15*	*08/11/21 14:33*	*1*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/08/21 11:15*	*08/11/21 14:33*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 141*	*08/08/21 11:15*	*08/11/21 14:33*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/08/21 11:15*	*08/11/21 14:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**110**		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Benzo[a]anthracene	**290**		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1

Client Sample ID: 1043-P5 (3)

Lab Sample ID: 410-50281-28

Date Collected: 08/05/21 13:25
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 79.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	200		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Benzo[b]fluoranthene	300		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Benzo[g,h,i]perylene	150		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Chrysene	280		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Fluorene	43		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Phenanthrene	470		21	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Pyrene	470		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/10/21 09:37*	*08/10/21 23:01*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/10/21 09:37*	*08/10/21 23:01*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*08/10/21 09:37*	*08/10/21 23:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	560	F2	1.5	0.59	mg/Kg	☼	08/09/21 03:32	08/11/21 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.9		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: 1043-P4 (3)

Lab Sample ID: 410-50281-29

Date Collected: 08/05/21 13:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 77.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.7	0.70	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
1,2-Dichloroethane	ND		8.7	1.0	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
1,3,5-Trimethylbenzene	ND		8.7	0.87	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
Toluene	ND		8.7	1.0	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
Xylenes, Total	ND		17	2.4	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
Methyl tertiary butyl ether	ND		8.7	0.87	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
Benzene	2.6	J	8.7	0.87	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
Naphthalene	ND		8.7	3.5	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
1,2,4-Trimethylbenzene	ND		8.7	0.87	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
Isopropylbenzene	ND		8.7	0.70	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
1,2-Dibromoethane	ND		8.7	0.70	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/08/21 11:15*	*08/10/21 19:39*	*1*
4-Bromofluorobenzene (Surr)	*80*		*50 - 131*	*08/08/21 11:15*	*08/10/21 19:39*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 11:15*	*08/10/21 19:39*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/08/21 11:15*	*08/10/21 19:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	420		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Benzo[a]anthracene	3100		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Benzo[a]pyrene	2700		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Benzo[b]fluoranthene	2800		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1

Client Sample ID: 1043-P4 (3)

Lab Sample ID: 410-50281-29

Date Collected: 08/05/21 13:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 77.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	1700		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Chrysene	2600		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Fluorene	54		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Phenanthrene	820		21	5.1	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Pyrene	4100		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/10/21 09:37*	*08/10/21 23:23*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/10/21 09:37*	*08/10/21 23:23*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/10/21 09:37*	*08/10/21 23:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	880		1.5	0.61	mg/Kg	☼	08/09/21 03:32	08/11/21 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.0		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: 1043-P1 (3)

Lab Sample ID: 410-50281-30

Date Collected: 08/05/21 13:40
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 78.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.2	0.66	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
1,2-Dichloroethane	ND		8.2	0.98	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
1,3,5-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
Toluene	ND		8.2	0.98	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
Xylenes, Total	ND		16	2.3	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
Methyl tertiary butyl ether	ND		8.2	0.82	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
Benzene	1.6	J	8.2	0.82	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
Naphthalene	ND		8.2	3.3	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
1,2,4-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
Isopropylbenzene	ND		8.2	0.66	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
1,2-Dibromoethane	ND		8.2	0.66	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/08/21 11:15*	*08/10/21 18:54*	*1*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/08/21 11:15*	*08/10/21 18:54*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/08/21 11:15*	*08/10/21 18:54*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/08/21 11:15*	*08/10/21 18:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	66		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Benzo[a]anthracene	210		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Benzo[a]pyrene	160		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Benzo[b]fluoranthene	190		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Benzo[g,h,i]perylene	110		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Chrysene	200		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1

Client Sample ID: 1043-P1 (3)

Lab Sample ID: 410-50281-30

Date Collected: 08/05/21 13:40
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 78.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	**28**		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Phenanthrene	**280**		21	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Pyrene	**350**		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*39 - 100*	*08/10/21 09:37*	*08/10/21 23:46*	*1*
Nitrobenzene-d5 (Surr)	*56*		*32 - 97*	*08/10/21 09:37*	*08/10/21 23:46*	*1*
p-Terphenyl-d14 (Surr)	*74*		*45 - 108*	*08/10/21 09:37*	*08/10/21 23:46*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**87**		1.4	0.57	mg/Kg	☼	08/09/21 03:32	08/11/21 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.2**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 51 (2)

Lab Sample ID: 410-50281-31

Date Collected: 08/05/21 13:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 80.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.7	0.77	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
1,2-Dichloroethane	ND		9.7	1.2	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
1,3,5-Trimethylbenzene	ND	*3	9.7	0.97	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
Toluene	ND		9.7	1.2	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
Xylenes, Total	ND		19	2.7	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
Methyl tertiary butyl ether	ND		9.7	0.97	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
Benzene	**1.5**	**J**	9.7	0.97	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
Naphthalene	ND	*3	9.7	3.9	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
1,2,4-Trimethylbenzene	ND	*3	9.7	0.97	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
Isopropylbenzene	ND		9.7	0.77	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
1,2-Dibromoethane	ND		9.7	0.77	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*54 - 135*	*08/08/21 11:15*	*08/11/21 15:18*	*1*
4-Bromofluorobenzene (Surr)	*67*		*50 - 131*	*08/08/21 11:15*	*08/11/21 15:18*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/08/21 11:15*	*08/11/21 15:18*	*1*
Toluene-d8 (Surr)	*108*		*52 - 141*	*08/08/21 11:15*	*08/11/21 15:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**80**	**J**	100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Benzo[a]anthracene	ND		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Benzo[a]pyrene	ND		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Benzo[b]fluoranthene	ND		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Benzo[g,h,i]perylene	**710**		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Chrysene	ND		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Fluorene	ND		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Phenanthrene	**270**		100	25	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1

Client Sample ID: Pipe 51 (2)

Lab Sample ID: 410-50281-31

Date Collected: 08/05/21 13:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**100**		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/10/21 09:37*	*08/11/21 00:08*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*08/10/21 09:37*	*08/11/21 00:08*	*1*
p-Terphenyl-d14 (Surr)	*101*		*45 - 108*	*08/10/21 09:37*	*08/11/21 00:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**460**		1.6	0.64	mg/Kg	☼	08/09/21 03:32	08/11/21 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.0**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 52 (2)

Lab Sample ID: 410-50281-32

Date Collected: 08/05/21 14:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 72.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.5	0.60	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
1,2-Dichloroethane	ND		7.5	0.90	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
1,3,5-Trimethylbenzene	ND		7.5	0.75	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
Toluene	ND		7.5	0.90	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
Xylenes, Total	ND		15	2.1	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
Methyl tertiary butyl ether	ND		7.5	0.75	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
Benzene	ND		7.5	0.75	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
Naphthalene	ND		7.5	3.0	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
1,2,4-Trimethylbenzene	ND		7.5	0.75	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
Isopropylbenzene	ND		7.5	0.60	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
1,2-Dibromoethane	ND		7.5	0.60	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/08/21 11:15*	*08/11/21 15:41*	*1*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/08/21 11:15*	*08/11/21 15:41*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 11:15*	*08/11/21 15:41*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/08/21 11:15*	*08/11/21 15:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**18**	**J**	23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Benzo[a]anthracene	**28**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Benzo[a]pyrene	ND		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Benzo[b]fluoranthene	**34**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Benzo[g,h,i]perylene	ND		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Chrysene	**40**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Fluorene	ND		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Phenanthrene	**64**		23	5.5	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Pyrene	**39**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: Pipe 52 (2)
Date Collected: 08/05/21 14:00
Date Received: 08/06/21 15:23

Lab Sample ID: 410-50281-32
Matrix: Solid
Percent Solids: 72.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*39 - 100*	*08/10/21 09:37*	*08/11/21 00:31*	*1*
Nitrobenzene-d5 (Surr)	*58*		*32 - 97*	*08/10/21 09:37*	*08/11/21 00:31*	*1*
p-Terphenyl-d14 (Surr)	*68*		*45 - 108*	*08/10/21 09:37*	*08/11/21 00:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**110**		1.4	0.57	mg/Kg	☼	08/09/21 03:32	08/11/21 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.0**		1.0	1.0	%			08/06/21 22:34	1

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-50281-1	DUP-3	113	88	97	97
410-50281-2	7551-P5 (3)	121	83	101	91
410-50281-3	Pipe 75 (2)	80	73	75	71
410-50281-4	7551-P1 (3)	111	89	99	93
410-50281-5	Pipe 87 (2)	82	76	78	75
410-50281-6	7551-P2 (3)	106	83	102	95
410-50281-7	Pipe 77 (2)	78	69	73	69
410-50281-8	Pipe 76 (2)	118	88	103	93
410-50281-9	7551-P3 (3)	114	81	96	93
410-50281-11	Pipe 53 (2)	112	72	103	110
410-50281-12	1044-P4 (3)	111	81	103	97
410-50281-13	Pipe 55 (2)	93	75	89	83
410-50281-14	Pipe 78 (2)	87	77	82	78
410-50281-15	Pipe 79 (2)	86	84	83	83
410-50281-15 - DL	Pipe 79 (2)	91	86	82	82
410-50281-16	7551-P7 (3)	73	78	65	68
410-50281-17	Pipe 82 (2)	121	95	103	92
410-50281-18	7551-P6 (3)	85	91	81	85
410-50281-18 - DL	7551-P6 (3)	79	82	77	79
410-50281-19	Pipe 81 (2)	115	81	100	100
410-50281-20	Pipe 83 (2)	119	83	99	93
410-50281-21	Pipe 80 (2)	114	87	94	99
410-50281-22	Pipe 50 (2)	122	87	103	92
410-50281-23	Pipe 49 (2)	114	78	104	98
410-50281-24	Pipe 45 (2)	79	66	76	72
410-50281-25	Pipe 47 (2)	82	68	79	72
410-50281-26	Pipe 46 (2)	84	72	82	78
410-50281-27	Pipe 48 (2)	115	80	105	99
410-50281-28	1043-P5 (3)	116	82	101	98
410-50281-29	1043-P4 (3)	116	80	103	98
410-50281-30	1043-P1 (3)	114	81	105	97
410-50281-31	Pipe 51 (2)	121	67	106	108
410-50281-32	Pipe 52 (2)	116	82	103	98
LCS 410-158553/4	Lab Control Sample	108	95	97	97
LCS 410-159034/5	Lab Control Sample	107	94	99	99
LCS 410-159050/4	Lab Control Sample	98	87	97	92
LCS 410-159518/4	Lab Control Sample	97	87	95	91
LCSD 410-158553/5	Lab Control Sample Dup	103	94	95	97
LCSD 410-159034/6	Lab Control Sample Dup	106	94	97	98
LCSD 410-159050/5	Lab Control Sample Dup	97	88	97	91
LCSD 410-159518/5	Lab Control Sample Dup	99	86	96	90
MB 410-158553/7	Method Blank	108	87	100	94
MB 410-159034/10	Method Blank	107	86	100	94
MB 410-159050/7	Method Blank	102	86	97	92
MB 410-159518/7	Method Blank	103	86	98	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Job ID: 410-50281-1
Project/Site: PBF Logistics

TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-50281-10	Trip Blank	98	100	105	97
LCS 410-158775/4	Lab Control Sample	100	102	105	98
LCSD 410-158775/5	Lab Control Sample Dup	100	101	104	97
MB 410-158775/6	Method Blank	97	101	105	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-50281-1	DUP-3	81	69	82
410-50281-1 MS	DUP-3	84	73	84
410-50281-1 MSD	DUP-3	90	73	91
410-50281-2	7551-P5 (3)	88	75	89
410-50281-3	Pipe 75 (2)	84	71	86
410-50281-4	7551-P1 (3)	85	72	87
410-50281-5	Pipe 87 (2)	81	71	86
410-50281-6	7551-P2 (3)	85	69	85
410-50281-6 - DL	7551-P2 (3)	84	67	82
410-50281-7	Pipe 77 (2)	73	82	80
410-50281-8	Pipe 76 (2)	90	79	88
410-50281-9	7551-P3 (3)	93	78	90
410-50281-11	Pipe 53 (2)	85	73	85
410-50281-12	1044-P4 (3)	91	73	84
410-50281-13	Pipe 55 (2)	82	65	77
410-50281-14	Pipe 78 (2)	91	81	89
410-50281-15	Pipe 79 (2)	87	77	83
410-50281-16	7551-P7 (3)	90	79	87
410-50281-17	Pipe 82 (2)	79	72	87
410-50281-18	7551-P6 (3)	80	69	82
410-50281-19	Pipe 81 (2)	81	65	79
410-50281-20	Pipe 83 (2)	89	75	86
410-50281-21	Pipe 80 (2)	86	75	87
410-50281-22	Pipe 50 (2)	82	65	74
410-50281-23	Pipe 49 (2)	91	73	85
410-50281-24	Pipe 45 (2)	81	66	76
410-50281-25	Pipe 47 (2)	68	59	66
410-50281-26	Pipe 46 (2)	69	49	75
410-50281-27	Pipe 48 (2)	72	62	76
410-50281-28	1043-P5 (3)	83	72	79
410-50281-29	1043-P4 (3)	84	71	85
410-50281-30	1043-P1 (3)	66	56	74

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 410-50281-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-50281-31	Pipe 51 (2)	89	76	101
410-50281-32	Pipe 52 (2)	70	58	68
LCS 410-158484/2-A	Lab Control Sample	76	67	88
LCS 410-158485/2-A	Lab Control Sample	93	78	92
LCS 410-158764/2-A	Lab Control Sample	98	79	92
LCS 410-159307/2-A	Lab Control Sample	85	72	97
MB 410-158484/1-A	Method Blank	83	75	97
MB 410-158485/1-A	Method Blank	94	83	94
MB 410-158764/1-A	Method Blank	91	79	94
MB 410-159307/1-A	Method Blank	86	75	98

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-158553/7
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/10/21 11:44	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/10/21 11:44	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Toluene	ND		5.0	0.60	ug/Kg			08/10/21 11:44	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/10/21 11:44	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Benzene	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/10/21 11:44	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/10/21 11:44	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/10/21 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*		*08/10/21 11:44*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*		*08/10/21 11:44*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*		*08/10/21 11:44*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*		*08/10/21 11:44*	*1*

Lab Sample ID: LCS 410-158553/4
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	18.9		ug/Kg		95	78 - 120
1,2-Dichloroethane	20.0	16.5		ug/Kg		83	71 - 128
1,3,5-Trimethylbenzene	20.0	17.9		ug/Kg		89	73 - 120
Toluene	20.0	17.4		ug/Kg		87	80 - 120
Xylenes, Total	60.0	51.9		ug/Kg		87	75 - 120
Methyl tertiary butyl ether	20.0	16.8		ug/Kg		84	72 - 120
Benzene	20.0	19.8		ug/Kg		99	80 - 120
Naphthalene	20.0	15.4		ug/Kg		77	48 - 130
1,2,4-Trimethylbenzene	20.0	17.8		ug/Kg		89	73 - 120
Isopropylbenzene	20.0	16.9		ug/Kg		85	77 - 120
1,2-Dibromoethane	20.0	17.6		ug/Kg		88	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: LCSD 410-158553/5
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	18.8		ug/Kg		94	78 - 120	0	30
1,2-Dichloroethane	20.0	16.5		ug/Kg		82	71 - 128	0	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-158553/5
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	18.0		ug/Kg		90	73 - 120	1	30
Toluene			20.0	17.8		ug/Kg		89	80 - 120	2	30
Xylenes, Total			60.0	51.9		ug/Kg		87	75 - 120	0	30
Methyl tertiary butyl ether			20.0	15.8		ug/Kg		79	72 - 120	6	30
Benzene			20.0	19.7		ug/Kg		99	80 - 120	0	30
Naphthalene			20.0	14.0		ug/Kg		70	48 - 130	9	30
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		90	73 - 120	1	30
Isopropylbenzene			20.0	16.9		ug/Kg		84	77 - 120	0	30
1,2-Dibromoethane			20.0	17.0		ug/Kg		85	76 - 120	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: MB 410-159034/10
Matrix: Solid
Analysis Batch: 159034

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/11/21 12:19	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/11/21 12:19	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/11/21 12:19	1
Toluene	ND		5.0	0.60	ug/Kg			08/11/21 12:19	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/11/21 12:19	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/11/21 12:19	1
Benzene	ND		5.0	0.50	ug/Kg			08/11/21 12:19	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/11/21 12:19	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/11/21 12:19	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/11/21 12:19	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/11/21 12:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*		*08/11/21 12:19*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*		*08/11/21 12:19*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*		*08/11/21 12:19*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*		*08/11/21 12:19*	*1*

Lab Sample ID: LCS 410-159034/5
Matrix: Solid
Analysis Batch: 159034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			20.0	19.4		ug/Kg		97	78 - 120
1,2-Dichloroethane			20.0	17.1		ug/Kg		86	71 - 128
1,3,5-Trimethylbenzene			20.0	18.3		ug/Kg		91	73 - 120
Toluene			20.0	18.3		ug/Kg		91	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-159034/5
Matrix: Solid
Analysis Batch: 159034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			60.0	53.2		ug/Kg		89	75 - 120		
Methyl tertiary butyl ether			20.0	16.5		ug/Kg		83	72 - 120		
Benzene			20.0	19.9		ug/Kg		100	80 - 120		
Naphthalene			20.0	15.1		ug/Kg		76	48 - 130		
1,2,4-Trimethylbenzene			20.0	18.2		ug/Kg		91	73 - 120		
Isopropylbenzene			20.0	17.1		ug/Kg		86	77 - 120		
1,2-Dibromoethane			20.0	18.1		ug/Kg		91	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*99*		*52 - 141*

Lab Sample ID: LCSD 410-159034/6
Matrix: Solid
Analysis Batch: 159034

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	19.2		ug/Kg		96	78 - 120	1	30
1,2-Dichloroethane			20.0	16.6		ug/Kg		83	71 - 128	3	30
1,3,5-Trimethylbenzene			20.0	18.3		ug/Kg		91	73 - 120	0	30
Toluene			20.0	18.1		ug/Kg		91	80 - 120	1	30
Xylenes, Total			60.0	53.1		ug/Kg		89	75 - 120	0	30
Methyl tertiary butyl ether			20.0	16.5		ug/Kg		83	72 - 120	0	30
Benzene			20.0	19.9		ug/Kg		100	80 - 120	0	30
Naphthalene			20.0	15.2		ug/Kg		76	48 - 130	0	30
1,2,4-Trimethylbenzene			20.0	18.2		ug/Kg		91	73 - 120	0	30
Isopropylbenzene			20.0	16.9		ug/Kg		85	77 - 120	1	30
1,2-Dibromoethane			20.0	18.0		ug/Kg		90	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: MB 410-159050/7
Matrix: Solid
Analysis Batch: 159050

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/11/21 11:35	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/11/21 11:35	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/11/21 11:35	50
Toluene	ND		250	30	ug/Kg			08/11/21 11:35	50
Xylenes, Total	ND		500	70	ug/Kg			08/11/21 11:35	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/11/21 11:35	50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-159050/7
Matrix: Solid
Analysis Batch: 159050

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		250	25	ug/Kg			08/11/21 11:35	50
Naphthalene	ND		250	100	ug/Kg			08/11/21 11:35	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/11/21 11:35	50
Isopropylbenzene	ND		250	20	ug/Kg			08/11/21 11:35	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/11/21 11:35	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*		*08/11/21 11:35*	*50*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*		*08/11/21 11:35*	*50*
Dibromofluoromethane (Surr)	*97*		*50 - 141*		*08/11/21 11:35*	*50*
Toluene-d8 (Surr)	*92*		*52 - 141*		*08/11/21 11:35*	*50*

Lab Sample ID: LCS 410-159050/4
Matrix: Solid
Analysis Batch: 159050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	945		ug/Kg		95	78 - 120		
1,2-Dichloroethane			1000	887		ug/Kg		89	71 - 128		
1,3,5-Trimethylbenzene			1000	860		ug/Kg		86	73 - 120		
Toluene			1000	952		ug/Kg		95	80 - 120		
Xylenes, Total			3000	2890		ug/Kg		96	75 - 120		
Methyl tertiary butyl ether			1000	941		ug/Kg		94	72 - 120		
Benzene			1000	975		ug/Kg		97	80 - 120		
Naphthalene			1000	894		ug/Kg		89	48 - 130		
1,2,4-Trimethylbenzene			1000	851		ug/Kg		85	73 - 120		
Isopropylbenzene			1000	975		ug/Kg		97	77 - 120		
1,2-Dibromoethane			1000	957		ug/Kg		96	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: LCSD 410-159050/5
Matrix: Solid
Analysis Batch: 159050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	932		ug/Kg		93	78 - 120	1	30
1,2-Dichloroethane			1000	886		ug/Kg		89	71 - 128	0	30
1,3,5-Trimethylbenzene			1000	848		ug/Kg		85	73 - 120	1	30
Toluene			1000	950		ug/Kg		95	80 - 120	0	30
Xylenes, Total			3000	2880		ug/Kg		96	75 - 120	0	30
Methyl tertiary butyl ether			1000	925		ug/Kg		92	72 - 120	2	30
Benzene			1000	969		ug/Kg		97	80 - 120	1	30
Naphthalene			1000	915		ug/Kg		92	48 - 130	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-159050/5
Matrix: Solid
Analysis Batch: 159050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			1000	845		ug/Kg		85	73 - 120	1	30
Isopropylbenzene			1000	957		ug/Kg		96	77 - 120	2	30
1,2-Dibromoethane			1000	949		ug/Kg		95	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*54 - 135*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*91*		*52 - 141*

Lab Sample ID: MB 410-159518/7
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/12/21 11:12	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/12/21 11:12	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/12/21 11:12	50
Toluene	ND		250	30	ug/Kg			08/12/21 11:12	50
Xylenes, Total	ND		500	70	ug/Kg			08/12/21 11:12	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/12/21 11:12	50
Benzene	ND		250	25	ug/Kg			08/12/21 11:12	50
Naphthalene	ND		250	100	ug/Kg			08/12/21 11:12	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/12/21 11:12	50
Isopropylbenzene	ND		250	20	ug/Kg			08/12/21 11:12	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/12/21 11:12	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*		*08/12/21 11:12*	*50*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*		*08/12/21 11:12*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*08/12/21 11:12*	*50*
Toluene-d8 (Surr)	*92*		*52 - 141*		*08/12/21 11:12*	*50*

Lab Sample ID: LCS 410-159518/4
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	958		ug/Kg		96	78 - 120		
1,2-Dichloroethane			1000	935		ug/Kg		93	71 - 128		
1,3,5-Trimethylbenzene			1000	875		ug/Kg		87	73 - 120		
Toluene			1000	969		ug/Kg		97	80 - 120		
Xylenes, Total			3000	2950		ug/Kg		98	75 - 120		
Methyl tertiary butyl ether			1000	960		ug/Kg		96	72 - 120		
Benzene			1000	1010		ug/Kg		101	80 - 120		
Naphthalene			1000	919		ug/Kg		92	48 - 130		
1,2,4-Trimethylbenzene			1000	874		ug/Kg		87	73 - 120		
Isopropylbenzene			1000	991		ug/Kg		99	77 - 120		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-159518/4
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			1000	979		ug/Kg		98	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*91*		*52 - 141*

Lab Sample ID: LCSD 410-159518/5
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	941		ug/Kg		94	78 - 120	2	30
1,2-Dichloroethane			1000	950		ug/Kg		95	71 - 128	2	30
1,3,5-Trimethylbenzene			1000	873		ug/Kg		87	73 - 120	0	30
Toluene			1000	961		ug/Kg		96	80 - 120	1	30
Xylenes, Total			3000	2910		ug/Kg		97	75 - 120	1	30
Methyl tertiary butyl ether			1000	980		ug/Kg		98	72 - 120	2	30
Benzene			1000	1000		ug/Kg		100	80 - 120	1	30
Naphthalene			1000	924		ug/Kg		92	48 - 130	1	30
1,2,4-Trimethylbenzene			1000	866		ug/Kg		87	73 - 120	1	30
Isopropylbenzene			1000	981		ug/Kg		98	77 - 120	1	30
1,2-Dibromoethane			1000	970		ug/Kg		97	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*
Dibromofluoromethane (Surr)	*96*		*50 - 141*
Toluene-d8 (Surr)	*90*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-158775/6
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/10/21 20:07	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/10/21 20:07	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/10/21 20:07	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:07	1
Toluene	ND		1.0	0.30	ug/L			08/10/21 20:07	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/10/21 20:07	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/10/21 20:07	1
Benzene	ND		1.0	0.30	ug/L			08/10/21 20:07	1
Naphthalene	ND		5.0	1.0	ug/L			08/10/21 20:07	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/10/21 20:07	1

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-158775/6
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/10/21 20:07*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/10/21 20:07*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*08/10/21 20:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/10/21 20:07*	*1*

Lab Sample ID: LCS 410-158775/4
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	18.6		ug/L		93	77 - 120		
Ethylbenzene			20.0	18.8		ug/L		94	80 - 120		
1,2-Dichloroethane			20.0	17.9		ug/L		89	73 - 124		
1,3,5-Trimethylbenzene			20.0	18.1		ug/L		91	75 - 120		
Toluene			20.0	18.4		ug/L		92	80 - 120		
Xylenes, Total			60.0	55.4		ug/L		92	80 - 120		
Methyl tertiary butyl ether			20.0	18.8		ug/L		94	69 - 122		
Benzene			20.0	18.9		ug/L		95	80 - 120		
Naphthalene			20.0	18.0		ug/L		90	53 - 124		
1,2,4-Trimethylbenzene			20.0	17.9		ug/L		90	75 - 120		
Isopropylbenzene			20.0	18.5		ug/L		92	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 410-158775/5
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	19.7		ug/L		98	77 - 120	5	30
Ethylbenzene			20.0	20.4		ug/L		102	80 - 120	8	30
1,2-Dichloroethane			20.0	19.4		ug/L		97	73 - 124	8	30
1,3,5-Trimethylbenzene			20.0	19.6		ug/L		98	75 - 120	8	30
Toluene			20.0	19.9		ug/L		99	80 - 120	7	30
Xylenes, Total			60.0	59.7		ug/L		100	80 - 120	7	30
Methyl tertiary butyl ether			20.0	20.6		ug/L		103	69 - 122	9	30
Benzene			20.0	20.8		ug/L		104	80 - 120	10	30
Naphthalene			20.0	19.8		ug/L		99	53 - 124	9	30
1,2,4-Trimethylbenzene			20.0	19.6		ug/L		98	75 - 120	9	30
Isopropylbenzene			20.0	19.8		ug/L		99	80 - 120	7	30

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-158775/5
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-158484/1-A
Matrix: Solid
Analysis Batch: 159419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158484

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Chrysene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Fluorene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Phenanthrene	ND		17	4.0	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Pyrene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		39 - 100	08/10/21 09:43	08/12/21 00:33	1
Nitrobenzene-d5 (Surr)	75		32 - 97	08/10/21 09:43	08/12/21 00:33	1
p-Terphenyl-d14 (Surr)	97		45 - 108	08/10/21 09:43	08/12/21 00:33	1

Lab Sample ID: LCS 410-158484/2-A
Matrix: Solid
Analysis Batch: 159419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1350		ug/Kg		81	75 - 120
Benzo[a]anthracene	1670	1370		ug/Kg		82	73 - 120
Benzo[a]pyrene	1670	1530		ug/Kg		92	80 - 123
Benzo[b]fluoranthene	1670	1460		ug/Kg		87	63 - 120
Benzo[g,h,i]perylene	1670	1780		ug/Kg		107	77 - 120
Chrysene	1670	1430		ug/Kg		86	66 - 120
Fluorene	1670	1360		ug/Kg		81	68 - 120
Phenanthrene	1670	1310		ug/Kg		79	74 - 120
Pyrene	1670	1320		ug/Kg		79	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	76		39 - 100
Nitrobenzene-d5 (Surr)	67		32 - 97
p-Terphenyl-d14 (Surr)	88		45 - 108

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-158485/1-A
Matrix: Solid
Analysis Batch: 158700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Chrysene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Fluorene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Phenanthrene	ND		17	4.0	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Pyrene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*94*		*39 - 100*	*08/10/21 09:37*	*08/10/21 15:51*	*1*
Nitrobenzene-d5 (Surr)	*83*		*32 - 97*	*08/10/21 09:37*	*08/10/21 15:51*	*1*
p-Terphenyl-d14 (Surr)	*94*		*45 - 108*	*08/10/21 09:37*	*08/10/21 15:51*	*1*

Lab Sample ID: LCS 410-158485/2-A
Matrix: Solid
Analysis Batch: 158700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1580		ug/Kg		95	75 - 120
Benzo[a]anthracene	1670	1580		ug/Kg		95	73 - 120
Benzo[a]pyrene	1670	1640		ug/Kg		98	80 - 123
Benzo[b]fluoranthene	1670	1540		ug/Kg		92	63 - 120
Benzo[g,h,i]perylene	1670	1640		ug/Kg		98	77 - 120
Chrysene	1670	1540		ug/Kg		92	66 - 120
Fluorene	1670	1710		ug/Kg		103	68 - 120
Phenanthrene	1670	1540		ug/Kg		92	74 - 120
Pyrene	1670	1570		ug/Kg		94	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*93*		*39 - 100*
Nitrobenzene-d5 (Surr)	*78*		*32 - 97*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*

Lab Sample ID: 410-50281-1 MS
Matrix: Solid
Analysis Batch: 158700

Client Sample ID: DUP-3
Prep Type: Total/NA
Prep Batch: 158485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	7.0	J	1940	1710		ug/Kg	☼	88	75 - 120
Benzo[a]anthracene	19	FH F2	1940	1730		ug/Kg	☼	88	73 - 120
Benzo[a]pyrene	22		1940	1820		ug/Kg	☼	93	80 - 123
Benzo[b]fluoranthene	25		1940	1700		ug/Kg	☼	86	63 - 120
Benzo[g,h,i]perylene	24		1940	1890		ug/Kg	☼	96	77 - 120
Chrysene	20	F2	1940	1680		ug/Kg	☼	86	66 - 120
Fluorene	4.9	J	1940	1790		ug/Kg	☼	92	68 - 120
Phenanthrene	26	FH F2	1940	1680		ug/Kg	☼	85	74 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-50281-1 MS
Matrix: Solid
Analysis Batch: 158700

Client Sample ID: DUP-3
Prep Type: Total/NA
Prep Batch: 158485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	34	FH F2	1940	1740		ug/Kg	☼	88	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*

Lab Sample ID: 410-50281-1 MSD
Matrix: Solid
Analysis Batch: 158700

Client Sample ID: DUP-3
Prep Type: Total/NA
Prep Batch: 158485

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	7.0	J	1940	1940		ug/Kg	☼	100	75 - 120	13	30
Benzo[a]anthracene	19	FH F2	1940	2400	FH F2	ug/Kg	☼	123	73 - 120	33	30
Benzo[a]pyrene	22		1940	2300		ug/Kg	☼	117	80 - 123	23	30
Benzo[b]fluoranthene	25		1940	2170		ug/Kg	☼	111	63 - 120	25	30
Benzo[g,h,i]perylene	24		1940	2250		ug/Kg	☼	115	77 - 120	18	30
Chrysene	20	F2	1940	2310	F2	ug/Kg	☼	118	66 - 120	31	30
Fluorene	4.9	J	1940	1950		ug/Kg	☼	101	68 - 120	9	30
Phenanthrene	26	FH F2	1940	2660	FH F2	ug/Kg	☼	136	74 - 120	45	30
Pyrene	34	FH F2	1940	2730	FH F2	ug/Kg	☼	139	70 - 120	44	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*90*		*39 - 100*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*
p-Terphenyl-d14 (Surr)	*91*		*45 - 108*

Lab Sample ID: MB 410-158764/1-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Chrysene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Fluorene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Phenanthrene	ND		17	4.0	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Pyrene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/10/21 17:56*	*08/11/21 08:09*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*08/10/21 17:56*	*08/11/21 08:09*	*1*
p-Terphenyl-d14 (Surr)	*94*		*45 - 108*	*08/10/21 17:56*	*08/11/21 08:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-158764/2-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1650		ug/Kg		99	75 - 120
Benzo[a]anthracene	1670	1670		ug/Kg		100	73 - 120
Benzo[a]pyrene	1670	1720		ug/Kg		103	80 - 123
Benzo[b]fluoranthene	1670	1510		ug/Kg		91	63 - 120
Benzo[g,h,i]perylene	1670	1710		ug/Kg		103	77 - 120
Chrysene	1670	1630		ug/Kg		98	66 - 120
Fluorene	1670	1800		ug/Kg		108	68 - 120
Phenanthrene	1670	1610		ug/Kg		97	74 - 120
Pyrene	1670	1640		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*98*		*39 - 100*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*

Lab Sample ID: MB 410-159307/1-A
Matrix: Solid
Analysis Batch: 159845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159307

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Chrysene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Fluorene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Phenanthrene	ND		17	4.0	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Pyrene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*08/11/21 17:48*	*08/12/21 20:01*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/11/21 17:48*	*08/12/21 20:01*	*1*
p-Terphenyl-d14 (Surr)	*98*		*45 - 108*	*08/11/21 17:48*	*08/12/21 20:01*	*1*

Lab Sample ID: LCS 410-159307/2-A
Matrix: Solid
Analysis Batch: 159845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159307

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1450		ug/Kg		87	75 - 120
Benzo[a]anthracene	1670	1500		ug/Kg		90	73 - 120
Benzo[a]pyrene	1670	1640		ug/Kg		98	80 - 123
Benzo[b]fluoranthene	1670	1520		ug/Kg		91	63 - 120
Benzo[g,h,i]perylene	1670	1860		ug/Kg		112	77 - 120
Chrysene	1670	1520		ug/Kg		91	66 - 120
Fluorene	1670	1520		ug/Kg		91	68 - 120
Phenanthrene	1670	1410		ug/Kg		85	74 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-159307/2-A
Matrix: Solid
Analysis Batch: 159845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159307

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Pyrene			1670	1420		ug/Kg		85	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*
p-Terphenyl-d14 (Surr)	*97*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-157947/1-A
Matrix: Solid
Analysis Batch: 159302

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/09/21 03:32	08/11/21 13:25	1

Lab Sample ID: LCS 410-157947/2-A
Matrix: Solid
Analysis Batch: 159302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157947

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			5.00	4.66		mg/Kg		93	80 - 120		

Lab Sample ID: 410-50281-28 MS
Matrix: Solid
Analysis Batch: 159302

Client Sample ID: 1043-P5 (3)
Prep Type: Total/NA
Prep Batch: 157947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	560	F2	5.40	797	4	mg/Kg	☼	4308	75 - 125		

Lab Sample ID: 410-50281-28 MSD
Matrix: Solid
Analysis Batch: 159302

Client Sample ID: 1043-P5 (3)
Prep Type: Total/NA
Prep Batch: 157947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	560	F2	5.09	1450	4 F2	mg/Kg	☼	17380	75 - 125	58	20

Lab Sample ID: 410-50281-28 DU
Matrix: Solid
Analysis Batch: 159302

Client Sample ID: 1043-P5 (3)
Prep Type: Total/NA
Prep Batch: 157947

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	560	F2	563		mg/Kg	☼	0.2	20

Lab Sample ID: MB 410-157948/1-A
Matrix: Solid
Analysis Batch: 159680

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157948

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/09/21 03:39	08/12/21 09:38	1

Method: 6010C - Metals (ICP)

Lab Sample ID: LCS 410-157948/2-A
Matrix: Solid
Analysis Batch: 159680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157948

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			5.00	5.37		mg/Kg		107	80 - 120		

Lab Sample ID: 410-50281-13 MS
Matrix: Solid
Analysis Batch: 159680

Client Sample ID: Pipe 55 (2)
Prep Type: Total/NA
Prep Batch: 157948

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	750	F2	5.96	2750	E 4	mg/Kg	☼	33531	75 - 125		

Lab Sample ID: 410-50281-13 MSD
Matrix: Solid
Analysis Batch: 159680

Client Sample ID: Pipe 55 (2)
Prep Type: Total/NA
Prep Batch: 157948

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	750	F2	6.56	1400	4 F2	mg/Kg	☼	9952	75 - 125	65	20

Lab Sample ID: 410-50281-13 DU
Matrix: Solid
Analysis Batch: 159680

Client Sample ID: Pipe 55 (2)
Prep Type: Total/NA
Prep Batch: 157948

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	750	F2		1080	F3	mg/Kg	☼			36	20

GC/MS VOA

Prep Batch: 157883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	5035	
410-50281-2	7551-P5 (3)	Total/NA	Solid	5035	
410-50281-4	7551-P1 (3)	Total/NA	Solid	5035	
410-50281-6	7551-P2 (3)	Total/NA	Solid	5035	
410-50281-8	Pipe 76 (2)	Total/NA	Solid	5035	
410-50281-9	7551-P3 (3)	Total/NA	Solid	5035	
410-50281-11 - RA	Pipe 53 (2)	Total/NA	Solid	5035	
410-50281-11	Pipe 53 (2)	Total/NA	Solid	5035	
410-50281-12	1044-P4 (3)	Total/NA	Solid	5035	
410-50281-17	Pipe 82 (2)	Total/NA	Solid	5035	
410-50281-19	Pipe 81 (2)	Total/NA	Solid	5035	
410-50281-20	Pipe 83 (2)	Total/NA	Solid	5035	
410-50281-21	Pipe 80 (2)	Total/NA	Solid	5035	
410-50281-22	Pipe 50 (2)	Total/NA	Solid	5035	
410-50281-23	Pipe 49 (2)	Total/NA	Solid	5035	
410-50281-27	Pipe 48 (2)	Total/NA	Solid	5035	
410-50281-28	1043-P5 (3)	Total/NA	Solid	5035	
410-50281-29	1043-P4 (3)	Total/NA	Solid	5035	
410-50281-30	1043-P1 (3)	Total/NA	Solid	5035	
410-50281-31 - RA	Pipe 51 (2)	Total/NA	Solid	5035	
410-50281-31	Pipe 51 (2)	Total/NA	Solid	5035	
410-50281-32	Pipe 52 (2)	Total/NA	Solid	5035	

Prep Batch: 157884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-3	Pipe 75 (2)	Total/NA	Solid	5035	
410-50281-5	Pipe 87 (2)	Total/NA	Solid	5035	
410-50281-7	Pipe 77 (2)	Total/NA	Solid	5035	
410-50281-13	Pipe 55 (2)	Total/NA	Solid	5035	
410-50281-14	Pipe 78 (2)	Total/NA	Solid	5035	
410-50281-15	Pipe 79 (2)	Total/NA	Solid	5035	
410-50281-15 - DL	Pipe 79 (2)	Total/NA	Solid	5035	
410-50281-16	7551-P7 (3)	Total/NA	Solid	5035	
410-50281-18 - DL	7551-P6 (3)	Total/NA	Solid	5035	
410-50281-18	7551-P6 (3)	Total/NA	Solid	5035	
410-50281-24	Pipe 45 (2)	Total/NA	Solid	5035	
410-50281-25	Pipe 47 (2)	Total/NA	Solid	5035	
410-50281-26	Pipe 46 (2)	Total/NA	Solid	5035	

Analysis Batch: 158553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	8260C	157883
410-50281-2	7551-P5 (3)	Total/NA	Solid	8260C	157883
410-50281-4	7551-P1 (3)	Total/NA	Solid	8260C	157883
410-50281-6	7551-P2 (3)	Total/NA	Solid	8260C	157883
410-50281-8	Pipe 76 (2)	Total/NA	Solid	8260C	157883
410-50281-9	7551-P3 (3)	Total/NA	Solid	8260C	157883
410-50281-11	Pipe 53 (2)	Total/NA	Solid	8260C	157883
410-50281-12	1044-P4 (3)	Total/NA	Solid	8260C	157883
410-50281-17	Pipe 82 (2)	Total/NA	Solid	8260C	157883
410-50281-20	Pipe 83 (2)	Total/NA	Solid	8260C	157883

GC/MS VOA (Continued)

Analysis Batch: 158553 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-22	Pipe 50 (2)	Total/NA	Solid	8260C	157883
410-50281-23	Pipe 49 (2)	Total/NA	Solid	8260C	157883
410-50281-27	Pipe 48 (2)	Total/NA	Solid	8260C	157883
410-50281-29	1043-P4 (3)	Total/NA	Solid	8260C	157883
410-50281-30	1043-P1 (3)	Total/NA	Solid	8260C	157883
MB 410-158553/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-158553/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-158553/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 158775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-10	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-158775/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-158775/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-158775/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Analysis Batch: 159034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-11 - RA	Pipe 53 (2)	Total/NA	Solid	8260C	157883
410-50281-19	Pipe 81 (2)	Total/NA	Solid	8260C	157883
410-50281-21	Pipe 80 (2)	Total/NA	Solid	8260C	157883
410-50281-28	1043-P5 (3)	Total/NA	Solid	8260C	157883
410-50281-31	Pipe 51 (2)	Total/NA	Solid	8260C	157883
410-50281-32	Pipe 52 (2)	Total/NA	Solid	8260C	157883
MB 410-159034/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-159034/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159034/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 159050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-3	Pipe 75 (2)	Total/NA	Solid	8260C	157884
410-50281-5	Pipe 87 (2)	Total/NA	Solid	8260C	157884
410-50281-7	Pipe 77 (2)	Total/NA	Solid	8260C	157884
410-50281-13	Pipe 55 (2)	Total/NA	Solid	8260C	157884
410-50281-14	Pipe 78 (2)	Total/NA	Solid	8260C	157884
410-50281-15	Pipe 79 (2)	Total/NA	Solid	8260C	157884
410-50281-16	7551-P7 (3)	Total/NA	Solid	8260C	157884
410-50281-18	7551-P6 (3)	Total/NA	Solid	8260C	157884
410-50281-24	Pipe 45 (2)	Total/NA	Solid	8260C	157884
410-50281-25	Pipe 47 (2)	Total/NA	Solid	8260C	157884
410-50281-26	Pipe 46 (2)	Total/NA	Solid	8260C	157884
MB 410-159050/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159050/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159050/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 159083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-31 - RA	Pipe 51 (2)	Total/NA	Solid	8260C	157883
MB 410-159083/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159083/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159083/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS VOA

Analysis Batch: 159518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-15 - DL	Pipe 79 (2)	Total/NA	Solid	8260C	157884
410-50281-18 - DL	7551-P6 (3)	Total/NA	Solid	8260C	157884
MB 410-159518/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159518/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159518/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 158484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-11	Pipe 53 (2)	Total/NA	Solid	3546	
410-50281-12	1044-P4 (3)	Total/NA	Solid	3546	
410-50281-13	Pipe 55 (2)	Total/NA	Solid	3546	
410-50281-22	Pipe 50 (2)	Total/NA	Solid	3546	
410-50281-23	Pipe 49 (2)	Total/NA	Solid	3546	
410-50281-24	Pipe 45 (2)	Total/NA	Solid	3546	
410-50281-25	Pipe 47 (2)	Total/NA	Solid	3546	
410-50281-26	Pipe 46 (2)	Total/NA	Solid	3546	
MB 410-158484/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158484/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 158485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	3546	
410-50281-2	7551-P5 (3)	Total/NA	Solid	3546	
410-50281-3	Pipe 75 (2)	Total/NA	Solid	3546	
410-50281-4	7551-P1 (3)	Total/NA	Solid	3546	
410-50281-5	Pipe 87 (2)	Total/NA	Solid	3546	
410-50281-6	7551-P2 (3)	Total/NA	Solid	3546	
410-50281-6 - DL	7551-P2 (3)	Total/NA	Solid	3546	
410-50281-7	Pipe 77 (2)	Total/NA	Solid	3546	
410-50281-8	Pipe 76 (2)	Total/NA	Solid	3546	
410-50281-9	7551-P3 (3)	Total/NA	Solid	3546	
410-50281-14	Pipe 78 (2)	Total/NA	Solid	3546	
410-50281-15	Pipe 79 (2)	Total/NA	Solid	3546	
410-50281-16	7551-P7 (3)	Total/NA	Solid	3546	
410-50281-18	7551-P6 (3)	Total/NA	Solid	3546	
410-50281-27	Pipe 48 (2)	Total/NA	Solid	3546	
410-50281-28	1043-P5 (3)	Total/NA	Solid	3546	
410-50281-29	1043-P4 (3)	Total/NA	Solid	3546	
410-50281-30	1043-P1 (3)	Total/NA	Solid	3546	
410-50281-31	Pipe 51 (2)	Total/NA	Solid	3546	
410-50281-32	Pipe 52 (2)	Total/NA	Solid	3546	
MB 410-158485/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158485/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-50281-1 MS	DUP-3	Total/NA	Solid	3546	
410-50281-1 MSD	DUP-3	Total/NA	Solid	3546	

Analysis Batch: 158700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	8270D	158485

GC/MS Semi VOA (Continued)

Analysis Batch: 158700 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-2	7551-P5 (3)	Total/NA	Solid	8270D	158485
410-50281-3	Pipe 75 (2)	Total/NA	Solid	8270D	158485
410-50281-4	7551-P1 (3)	Total/NA	Solid	8270D	158485
410-50281-5	Pipe 87 (2)	Total/NA	Solid	8270D	158485
410-50281-6	7551-P2 (3)	Total/NA	Solid	8270D	158485
410-50281-7	Pipe 77 (2)	Total/NA	Solid	8270D	158485
410-50281-8	Pipe 76 (2)	Total/NA	Solid	8270D	158485
410-50281-9	7551-P3 (3)	Total/NA	Solid	8270D	158485
410-50281-14	Pipe 78 (2)	Total/NA	Solid	8270D	158485
410-50281-15	Pipe 79 (2)	Total/NA	Solid	8270D	158485
410-50281-16	7551-P7 (3)	Total/NA	Solid	8270D	158485
410-50281-18	7551-P6 (3)	Total/NA	Solid	8270D	158485
410-50281-27	Pipe 48 (2)	Total/NA	Solid	8270D	158485
410-50281-28	1043-P5 (3)	Total/NA	Solid	8270D	158485
410-50281-29	1043-P4 (3)	Total/NA	Solid	8270D	158485
410-50281-30	1043-P1 (3)	Total/NA	Solid	8270D	158485
410-50281-31	Pipe 51 (2)	Total/NA	Solid	8270D	158485
410-50281-32	Pipe 52 (2)	Total/NA	Solid	8270D	158485
MB 410-158485/1-A	Method Blank	Total/NA	Solid	8270D	158485
LCS 410-158485/2-A	Lab Control Sample	Total/NA	Solid	8270D	158485
410-50281-1 MS	DUP-3	Total/NA	Solid	8270D	158485
410-50281-1 MSD	DUP-3	Total/NA	Solid	8270D	158485

Prep Batch: 158764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-19	Pipe 81 (2)	Total/NA	Solid	3546	
410-50281-20	Pipe 83 (2)	Total/NA	Solid	3546	
410-50281-21	Pipe 80 (2)	Total/NA	Solid	3546	
MB 410-158764/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158764/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 158947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-6 - DL	7551-P2 (3)	Total/NA	Solid	8270D	158485
410-50281-19	Pipe 81 (2)	Total/NA	Solid	8270D	158764
410-50281-20	Pipe 83 (2)	Total/NA	Solid	8270D	158764
410-50281-21	Pipe 80 (2)	Total/NA	Solid	8270D	158764
MB 410-158764/1-A	Method Blank	Total/NA	Solid	8270D	158764
LCS 410-158764/2-A	Lab Control Sample	Total/NA	Solid	8270D	158764

Prep Batch: 159307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-17	Pipe 82 (2)	Total/NA	Solid	3546	
MB 410-159307/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-159307/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 159419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-158484/1-A	Method Blank	Total/NA	Solid	8270D	158484
LCS 410-158484/2-A	Lab Control Sample	Total/NA	Solid	8270D	158484

GC/MS Semi VOA

Analysis Batch: 159422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-11	Pipe 53 (2)	Total/NA	Solid	8270D	158484
410-50281-12	1044-P4 (3)	Total/NA	Solid	8270D	158484
410-50281-13	Pipe 55 (2)	Total/NA	Solid	8270D	158484
410-50281-22	Pipe 50 (2)	Total/NA	Solid	8270D	158484
410-50281-23	Pipe 49 (2)	Total/NA	Solid	8270D	158484
410-50281-24	Pipe 45 (2)	Total/NA	Solid	8270D	158484
410-50281-25	Pipe 47 (2)	Total/NA	Solid	8270D	158484
410-50281-26	Pipe 46 (2)	Total/NA	Solid	8270D	158484

Analysis Batch: 159845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-17	Pipe 82 (2)	Total/NA	Solid	8270D	159307
MB 410-159307/1-A	Method Blank	Total/NA	Solid	8270D	159307
LCS 410-159307/2-A	Lab Control Sample	Total/NA	Solid	8270D	159307

Metals

Prep Batch: 157947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	3050B	
410-50281-2	7551-P5 (3)	Total/NA	Solid	3050B	
410-50281-3	Pipe 75 (2)	Total/NA	Solid	3050B	
410-50281-4	7551-P1 (3)	Total/NA	Solid	3050B	
410-50281-5	Pipe 87 (2)	Total/NA	Solid	3050B	
410-50281-7	Pipe 77 (2)	Total/NA	Solid	3050B	
410-50281-19	Pipe 81 (2)	Total/NA	Solid	3050B	
410-50281-20	Pipe 83 (2)	Total/NA	Solid	3050B	
410-50281-21	Pipe 80 (2)	Total/NA	Solid	3050B	
410-50281-22	Pipe 50 (2)	Total/NA	Solid	3050B	
410-50281-23	Pipe 49 (2)	Total/NA	Solid	3050B	
410-50281-24	Pipe 45 (2)	Total/NA	Solid	3050B	
410-50281-25	Pipe 47 (2)	Total/NA	Solid	3050B	
410-50281-26	Pipe 46 (2)	Total/NA	Solid	3050B	
410-50281-27	Pipe 48 (2)	Total/NA	Solid	3050B	
410-50281-28	1043-P5 (3)	Total/NA	Solid	3050B	
410-50281-29	1043-P4 (3)	Total/NA	Solid	3050B	
410-50281-30	1043-P1 (3)	Total/NA	Solid	3050B	
410-50281-31	Pipe 51 (2)	Total/NA	Solid	3050B	
410-50281-32	Pipe 52 (2)	Total/NA	Solid	3050B	
MB 410-157947/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-157947/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-50281-28 MS	1043-P5 (3)	Total/NA	Solid	3050B	
410-50281-28 MSD	1043-P5 (3)	Total/NA	Solid	3050B	
410-50281-28 DU	1043-P5 (3)	Total/NA	Solid	3050B	

Prep Batch: 157948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-6	7551-P2 (3)	Total/NA	Solid	3050B	
410-50281-8	Pipe 76 (2)	Total/NA	Solid	3050B	
410-50281-9	7551-P3 (3)	Total/NA	Solid	3050B	
410-50281-11	Pipe 53 (2)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 157948 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-12	1044-P4 (3)	Total/NA	Solid	3050B	
410-50281-13	Pipe 55 (2)	Total/NA	Solid	3050B	
410-50281-14	Pipe 78 (2)	Total/NA	Solid	3050B	
410-50281-15	Pipe 79 (2)	Total/NA	Solid	3050B	
410-50281-16	7551-P7 (3)	Total/NA	Solid	3050B	
410-50281-17	Pipe 82 (2)	Total/NA	Solid	3050B	
410-50281-18	7551-P6 (3)	Total/NA	Solid	3050B	
MB 410-157948/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-157948/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-50281-13 MS	Pipe 55 (2)	Total/NA	Solid	3050B	
410-50281-13 MSD	Pipe 55 (2)	Total/NA	Solid	3050B	
410-50281-13 DU	Pipe 55 (2)	Total/NA	Solid	3050B	

Analysis Batch: 159302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	6010C	157947
410-50281-2	7551-P5 (3)	Total/NA	Solid	6010C	157947
410-50281-3	Pipe 75 (2)	Total/NA	Solid	6010C	157947
410-50281-4	7551-P1 (3)	Total/NA	Solid	6010C	157947
410-50281-5	Pipe 87 (2)	Total/NA	Solid	6010C	157947
410-50281-7	Pipe 77 (2)	Total/NA	Solid	6010C	157947
410-50281-19	Pipe 81 (2)	Total/NA	Solid	6010C	157947
410-50281-20	Pipe 83 (2)	Total/NA	Solid	6010C	157947
410-50281-21	Pipe 80 (2)	Total/NA	Solid	6010C	157947
410-50281-22	Pipe 50 (2)	Total/NA	Solid	6010C	157947
410-50281-23	Pipe 49 (2)	Total/NA	Solid	6010C	157947
410-50281-24	Pipe 45 (2)	Total/NA	Solid	6010C	157947
410-50281-25	Pipe 47 (2)	Total/NA	Solid	6010C	157947
410-50281-26	Pipe 46 (2)	Total/NA	Solid	6010C	157947
410-50281-27	Pipe 48 (2)	Total/NA	Solid	6010C	157947
410-50281-28	1043-P5 (3)	Total/NA	Solid	6010C	157947
410-50281-29	1043-P4 (3)	Total/NA	Solid	6010C	157947
410-50281-30	1043-P1 (3)	Total/NA	Solid	6010C	157947
410-50281-31	Pipe 51 (2)	Total/NA	Solid	6010C	157947
410-50281-32	Pipe 52 (2)	Total/NA	Solid	6010C	157947
MB 410-157947/1-A	Method Blank	Total/NA	Solid	6010C	157947
LCS 410-157947/2-A	Lab Control Sample	Total/NA	Solid	6010C	157947
410-50281-28 MS	1043-P5 (3)	Total/NA	Solid	6010C	157947
410-50281-28 MSD	1043-P5 (3)	Total/NA	Solid	6010C	157947
410-50281-28 DU	1043-P5 (3)	Total/NA	Solid	6010C	157947

Analysis Batch: 159680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-6	7551-P2 (3)	Total/NA	Solid	6010C	157948
410-50281-8	Pipe 76 (2)	Total/NA	Solid	6010C	157948
410-50281-9	7551-P3 (3)	Total/NA	Solid	6010C	157948
410-50281-11	Pipe 53 (2)	Total/NA	Solid	6010C	157948
410-50281-12	1044-P4 (3)	Total/NA	Solid	6010C	157948
410-50281-13	Pipe 55 (2)	Total/NA	Solid	6010C	157948
410-50281-14	Pipe 78 (2)	Total/NA	Solid	6010C	157948
410-50281-15	Pipe 79 (2)	Total/NA	Solid	6010C	157948

Metals (Continued)

Analysis Batch: 159680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-16	7551-P7 (3)	Total/NA	Solid	6010C	157948
410-50281-17	Pipe 82 (2)	Total/NA	Solid	6010C	157948
410-50281-18	7551-P6 (3)	Total/NA	Solid	6010C	157948
MB 410-157948/1-A	Method Blank	Total/NA	Solid	6010C	157948
LCS 410-157948/2-A	Lab Control Sample	Total/NA	Solid	6010C	157948
410-50281-13 MS	Pipe 55 (2)	Total/NA	Solid	6010C	157948
410-50281-13 MSD	Pipe 55 (2)	Total/NA	Solid	6010C	157948
410-50281-13 DU	Pipe 55 (2)	Total/NA	Solid	6010C	157948

General Chemistry

Analysis Batch: 157749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-7	Pipe 77 (2)	Total/NA	Solid	Moisture	
410-50281-19	Pipe 81 (2)	Total/NA	Solid	Moisture	
410-50281-20	Pipe 83 (2)	Total/NA	Solid	Moisture	
410-50281-21	Pipe 80 (2)	Total/NA	Solid	Moisture	
410-50281-22	Pipe 50 (2)	Total/NA	Solid	Moisture	
410-50281-23	Pipe 49 (2)	Total/NA	Solid	Moisture	
410-50281-24	Pipe 45 (2)	Total/NA	Solid	Moisture	
410-50281-25	Pipe 47 (2)	Total/NA	Solid	Moisture	
410-50281-26	Pipe 46 (2)	Total/NA	Solid	Moisture	
410-50281-27	Pipe 48 (2)	Total/NA	Solid	Moisture	
410-50281-28	1043-P5 (3)	Total/NA	Solid	Moisture	
410-50281-29	1043-P4 (3)	Total/NA	Solid	Moisture	
410-50281-30	1043-P1 (3)	Total/NA	Solid	Moisture	
410-50281-31	Pipe 51 (2)	Total/NA	Solid	Moisture	
410-50281-32	Pipe 52 (2)	Total/NA	Solid	Moisture	

Analysis Batch: 157763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	Moisture	
410-50281-2	7551-P5 (3)	Total/NA	Solid	Moisture	
410-50281-3	Pipe 75 (2)	Total/NA	Solid	Moisture	
410-50281-4	7551-P1 (3)	Total/NA	Solid	Moisture	
410-50281-5	Pipe 87 (2)	Total/NA	Solid	Moisture	
410-50281-6	7551-P2 (3)	Total/NA	Solid	Moisture	
410-50281-8	Pipe 76 (2)	Total/NA	Solid	Moisture	
410-50281-9	7551-P3 (3)	Total/NA	Solid	Moisture	
410-50281-11	Pipe 53 (2)	Total/NA	Solid	Moisture	
410-50281-12	1044-P4 (3)	Total/NA	Solid	Moisture	
410-50281-13	Pipe 55 (2)	Total/NA	Solid	Moisture	
410-50281-14	Pipe 78 (2)	Total/NA	Solid	Moisture	
410-50281-15	Pipe 79 (2)	Total/NA	Solid	Moisture	
410-50281-16	7551-P7 (3)	Total/NA	Solid	Moisture	
410-50281-17	Pipe 82 (2)	Total/NA	Solid	Moisture	
410-50281-18	7551-P6 (3)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: DUP-3
Lab Sample ID: 410-50281-1
Date Collected: 08/06/21 00:00
Matrix: Solid
Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: DUP-3
Lab Sample ID: 410-50281-1
Date Collected: 08/06/21 00:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:04	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 13:13	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 16:36	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 15:00	MDP5	ELLE

Client Sample ID: 7551-P5 (3)
Lab Sample ID: 410-50281-2
Date Collected: 08/06/21 10:50
Matrix: Solid
Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 7551-P5 (3)
Lab Sample ID: 410-50281-2
Date Collected: 08/06/21 10:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:04	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 17:23	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 17:44	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 15:04	MDP5	ELLE

Client Sample ID: Pipe 75 (2)
Lab Sample ID: 410-50281-3
Date Collected: 08/06/21 11:00
Matrix: Solid
Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: Pipe 75 (2)

Lab Sample ID: 410-50281-3
Date Collected: 08/06/21 11:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 12:23	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 15:08	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 18:06	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 15:08	MDP5	ELLE

Client Sample ID: 7551-P1 (3)

Lab Sample ID: 410-50281-4
Date Collected: 08/06/21 11:15
Matrix: Solid
Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 7551-P1 (3)

Lab Sample ID: 410-50281-4
Date Collected: 08/06/21 11:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 58.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 13:36	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 18:29	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 15:12	MDP5	ELLE

Client Sample ID: Pipe 87 (2)

Lab Sample ID: 410-50281-5
Date Collected: 08/06/21 11:30
Matrix: Solid
Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 87 (2)

Lab Sample ID: 410-50281-5
Date Collected: 08/06/21 11:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 12:23	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 15:28	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 18:52	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 15:16	MDP5	ELLE

Client Sample ID: 7551-P2 (3)

Lab Sample ID: 410-50281-6

Date Collected: 08/06/21 11:45

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 7551-P2 (3)

Lab Sample ID: 410-50281-6

Date Collected: 08/06/21 11:45

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 72.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:28	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 16:38	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 19:15	ULM3	ELLE
Total/NA	Prep	3546	DL		158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D	DL	5	158947	08/11/21 08:54	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:05	WJM9	ELLE

Client Sample ID: Pipe 77 (2)

Lab Sample ID: 410-50281-7

Date Collected: 08/06/21 09:55

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 77 (2)

Lab Sample ID: 410-50281-7

Date Collected: 08/06/21 09:55

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 12:23	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 15:49	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 19:37	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 13:58	MDP5	ELLE

Client Sample ID: Pipe 76 (2)

Lab Sample ID: 410-50281-8

Date Collected: 08/06/21 12:00

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 76 (2)

Lab Sample ID: 410-50281-8

Date Collected: 08/06/21 12:00

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:28	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 13:59	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 20:00	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:09	WJM9	ELLE

Client Sample ID: 7551-P3 (3)

Lab Sample ID: 410-50281-9

Date Collected: 08/06/21 12:15

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 7551-P3 (3)

Lab Sample ID: 410-50281-9

Date Collected: 08/06/21 12:15

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:28	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 14:22	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 20:23	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:19	WJM9	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-50281-10

Date Collected: 08/06/21 00:00

Matrix: Water

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	158775	08/10/21 20:55	LCW8	ELLE

Client Sample ID: Pipe 53 (2)

Lab Sample ID: 410-50281-11

Date Collected: 08/05/21 14:15

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 53 (2)

Lab Sample ID: 410-50281-11

Date Collected: 08/05/21 14:15

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:28	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 14:44	UCB5	ELLE
Total/NA	Prep	5035	RA		157883	08/08/21 12:28	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	159034	08/11/21 13:48	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		5	159422	08/12/21 07:05	UWHS	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:22	WJM9	ELLE

Client Sample ID: 1044-P4 (3)

Lab Sample ID: 410-50281-12

Date Collected: 08/05/21 14:30

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 1044-P4 (3)

Lab Sample ID: 410-50281-12

Date Collected: 08/05/21 14:30

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:28	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 17:00	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 05:12	UWHS	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:26	WJM9	ELLE

Client Sample ID: Pipe 55 (2)

Lab Sample ID: 410-50281-13

Date Collected: 08/05/21 14:40

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 55 (2)

Lab Sample ID: 410-50281-13

Date Collected: 08/05/21 14:40

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 16:10	USEJ	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 05:35	UWHS	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 09:44	WJM9	ELLE

Client Sample ID: Pipe 78 (2)

Lab Sample ID: 410-50281-14

Date Collected: 08/06/21 09:05

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 78 (2)

Lab Sample ID: 410-50281-14

Date Collected: 08/06/21 09:05

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 59.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 16:31	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 20:45	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:29	WJM9	ELLE

Client Sample ID: Pipe 79 (2)

Lab Sample ID: 410-50281-15

Date Collected: 08/06/21 09:40

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 79 (2)

Lab Sample ID: 410-50281-15

Date Collected: 08/06/21 09:40

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 16:52	USEJ	ELLE
Total/NA	Prep	5035	DL		157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C	DL	500	159518	08/12/21 12:03	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 21:08	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:33	WJM9	ELLE

Client Sample ID: 7551-P7 (3)

Lab Sample ID: 410-50281-16

Date Collected: 08/06/21 09:45

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 7551-P7 (3)

Lab Sample ID: 410-50281-16

Date Collected: 08/06/21 09:45

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 17:12	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 21:31	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:37	WJM9	ELLE

Client Sample ID: Pipe 82 (2)

Lab Sample ID: 410-50281-17

Date Collected: 08/06/21 10:10

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 82 (2)

Lab Sample ID: 410-50281-17

Date Collected: 08/06/21 10:10

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 70.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 17:46	UCB5	ELLE
Total/NA	Prep	3546			159307	08/11/21 17:48	QQ3P	ELLE
Total/NA	Analysis	8270D		1	159845	08/12/21 22:25	SJ89	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:40	WJM9	ELLE

Client Sample ID: 7551-P6 (3)

Lab Sample ID: 410-50281-18

Date Collected: 08/06/21 10:15

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 7551-P6 (3)

Lab Sample ID: 410-50281-18

Date Collected: 08/06/21 10:15

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 66.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 17:33	USEJ	ELLE
Total/NA	Prep	5035	DL		157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C	DL	500	159518	08/12/21 12:24	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 22:16	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:44	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: Pipe 81 (2)

Lab Sample ID: 410-50281-19

Date Collected: 08/06/21 10:25

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 81 (2)

Lab Sample ID: 410-50281-19

Date Collected: 08/06/21 10:25

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	159034	08/11/21 14:10	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 12:18	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:02	MDP5	ELLE

Client Sample ID: Pipe 83 (2)

Lab Sample ID: 410-50281-20

Date Collected: 08/06/21 10:30

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 83 (2)

Lab Sample ID: 410-50281-20

Date Collected: 08/06/21 10:30

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 15:30	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 12:40	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:06	MDP5	ELLE

Client Sample ID: Pipe 80 (2)

Lab Sample ID: 410-50281-21

Date Collected: 08/06/21 10:40

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 80 (2)

Lab Sample ID: 410-50281-21

Date Collected: 08/06/21 10:40

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	159034	08/11/21 14:56	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 13:03	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:10	MDP5	ELLE

Client Sample ID: Pipe 50 (2)

Lab Sample ID: 410-50281-22

Date Collected: 08/05/21 12:50

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 50 (2)

Lab Sample ID: 410-50281-22

Date Collected: 08/05/21 12:50

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 15:52	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 05:57	UWHS	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:20	MDP5	ELLE

Client Sample ID: Pipe 49 (2)

Lab Sample ID: 410-50281-23

Date Collected: 08/05/21 12:55

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 49 (2)

Lab Sample ID: 410-50281-23

Date Collected: 08/05/21 12:55

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:04	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 18:08	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 06:20	UWHS	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:23	MDP5	ELLE

Client Sample ID: Pipe 45 (2)

Lab Sample ID: 410-50281-24

Date Collected: 08/05/21 13:00

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 45 (2)

Lab Sample ID: 410-50281-24

Date Collected: 08/05/21 13:00

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 17:54	USEJ	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 06:43	UWHS	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:26	MDP5	ELLE

Client Sample ID: Pipe 47 (2)

Lab Sample ID: 410-50281-25

Date Collected: 08/05/21 13:05

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 47 (2)

Lab Sample ID: 410-50281-25

Date Collected: 08/05/21 13:05

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 18:15	USEJ	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		10	159422	08/12/21 07:27	UWHS	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:33	MDP5	ELLE

Client Sample ID: Pipe 46 (2)

Lab Sample ID: 410-50281-26

Date Collected: 08/05/21 13:10

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 46 (2)

Lab Sample ID: 410-50281-26

Date Collected: 08/05/21 13:10

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 18:36	USEJ	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		10	159422	08/12/21 07:50	UWHS	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:37	MDP5	ELLE

Client Sample ID: Pipe 48 (2)

Lab Sample ID: 410-50281-27

Date Collected: 08/05/21 13:20

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 48 (2)

Lab Sample ID: 410-50281-27

Date Collected: 08/05/21 13:20

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 18:31	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 22:38	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:30	MDP5	ELLE

Client Sample ID: 1043-P5 (3)

Lab Sample ID: 410-50281-28

Date Collected: 08/05/21 13:25

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: 1043-P5 (3)

Lab Sample ID: 410-50281-28

Date Collected: 08/05/21 13:25

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	159034	08/11/21 14:33	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 23:01	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 13:38	MDP5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: 1043-P4 (3)

Lab Sample ID: 410-50281-29

Date Collected: 08/05/21 13:30
Date Received: 08/06/21 15:23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: 1043-P4 (3)

Lab Sample ID: 410-50281-29

Date Collected: 08/05/21 13:30
Date Received: 08/06/21 15:23

Matrix: Solid
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 19:39	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 23:23	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:41	MDP5	ELLE

Client Sample ID: 1043-P1 (3)

Lab Sample ID: 410-50281-30

Date Collected: 08/05/21 13:40
Date Received: 08/06/21 15:23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: 1043-P1 (3)

Lab Sample ID: 410-50281-30

Date Collected: 08/05/21 13:40
Date Received: 08/06/21 15:23

Matrix: Solid
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 18:54	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 23:46	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:44	MDP5	ELLE

Client Sample ID: Pipe 51 (2)

Lab Sample ID: 410-50281-31

Date Collected: 08/05/21 13:50
Date Received: 08/06/21 15:23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 51 (2)

Lab Sample ID: 410-50281-31

Date Collected: 08/05/21 13:50

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	159083	08/11/21 22:47	USEJ	ELLE
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	159034	08/11/21 15:18	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/11/21 00:08	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:51	MDP5	ELLE

Client Sample ID: Pipe 52 (2)

Lab Sample ID: 410-50281-32

Date Collected: 08/05/21 14:00

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 52 (2)

Lab Sample ID: 410-50281-32

Date Collected: 08/05/21 14:00

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	159034	08/11/21 15:41	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/11/21 00:31	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:47	MDP5	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-50281-1	DUP-3	Solid	08/06/21 00:00	08/06/21 15:23
410-50281-2	7551-P5 (3)	Solid	08/06/21 10:50	08/06/21 15:23
410-50281-3	Pipe 75 (2)	Solid	08/06/21 11:00	08/06/21 15:23
410-50281-4	7551-P1 (3)	Solid	08/06/21 11:15	08/06/21 15:23
410-50281-5	Pipe 87 (2)	Solid	08/06/21 11:30	08/06/21 15:23
410-50281-6	7551-P2 (3)	Solid	08/06/21 11:45	08/06/21 15:23
410-50281-7	Pipe 77 (2)	Solid	08/06/21 09:55	08/06/21 15:23
410-50281-8	Pipe 76 (2)	Solid	08/06/21 12:00	08/06/21 15:23
410-50281-9	7551-P3 (3)	Solid	08/06/21 12:15	08/06/21 15:23
410-50281-10	Trip Blank	Water	08/06/21 00:00	08/06/21 15:23
410-50281-11	Pipe 53 (2)	Solid	08/05/21 14:15	08/06/21 15:23
410-50281-12	1044-P4 (3)	Solid	08/05/21 14:30	08/06/21 15:23
410-50281-13	Pipe 55 (2)	Solid	08/05/21 14:40	08/06/21 15:23
410-50281-14	Pipe 78 (2)	Solid	08/06/21 09:05	08/06/21 15:23
410-50281-15	Pipe 79 (2)	Solid	08/06/21 09:40	08/06/21 15:23
410-50281-16	7551-P7 (3)	Solid	08/06/21 09:45	08/06/21 15:23
410-50281-17	Pipe 82 (2)	Solid	08/06/21 10:10	08/06/21 15:23
410-50281-18	7551-P6 (3)	Solid	08/06/21 10:15	08/06/21 15:23
410-50281-19	Pipe 81 (2)	Solid	08/06/21 10:25	08/06/21 15:23
410-50281-20	Pipe 83 (2)	Solid	08/06/21 10:30	08/06/21 15:23
410-50281-21	Pipe 80 (2)	Solid	08/06/21 10:40	08/06/21 15:23
410-50281-22	Pipe 50 (2)	Solid	08/05/21 12:50	08/06/21 15:23
410-50281-23	Pipe 49 (2)	Solid	08/05/21 12:55	08/06/21 15:23
410-50281-24	Pipe 45 (2)	Solid	08/05/21 13:00	08/06/21 15:23
410-50281-25	Pipe 47 (2)	Solid	08/05/21 13:05	08/06/21 15:23
410-50281-26	Pipe 46 (2)	Solid	08/05/21 13:10	08/06/21 15:23
410-50281-27	Pipe 48 (2)	Solid	08/05/21 13:20	08/06/21 15:23
410-50281-28	1043-P5 (3)	Solid	08/05/21 13:25	08/06/21 15:23
410-50281-29	1043-P4 (3)	Solid	08/05/21 13:30	08/06/21 15:23
410-50281-30	1043-P1 (3)	Solid	08/05/21 13:40	08/06/21 15:23
410-50281-31	Pipe 51 (2)	Solid	08/05/21 13:50	08/06/21 15:23
410-50281-32	Pipe 52 (2)	Solid	08/05/21 14:00	08/06/21 15:23

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: SP/IA/ZS/DH	LC: 410-50281 Chain of Custody	Job(s): PA	COC No: 410-30583-9562 1
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E: Loran Carter@eurofinset com		Page: Page 1 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark schaeffer@stantec com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Loaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Loaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	A		
DUP-3	8/6/21	—	G	Solid			X	X	X		
7551-P5 (3)	8/6/21	1050	G	Solid			X	X	X		
Pipe 75 (2)	8/6/21	1100	G	Solid			X	X	X		
7551-P1 (3)	8/6/21	1115	G	Solid			X	X	X		
Pipe 87 (2)	8/6/21	1130	G	Solid			X	X	X		
7551-P2 (3)	8/6/21	1145	G	Solid			X	X	X		
Pipe 60 (2)	8/5/21	1200	G	Solid			X	X	X		
Pipe 76 (2)	8/6/21	1200	G	Solid			X	X	X		
7551-P3 (3)	8/6/21	1215	G	Solid			X	X	X		
Trip Blank	8/6/21	—	G	Water Solid							
				Solid							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/6/21 1240	Stantec		8/6/21 12:40	
2		8/6/21 15[illegible]				
3					8/6/21 1523	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.6 - 1.9

Ver 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: SP/IA/DH/ZS	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-30581-9562 5
Client Contact: Mark Schaeffer	Phone: 4844673657	E-Mail: Loran Carter@eurofinset.com	State of Origin: PA	Page: Page 5 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days):			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A		
Pipe 59 (2)	8/5/21	1415	G	Solid Water			X	X	X		
1044-P4 (3)	8/5/21	1430	G	Solid			X	X	X		
Pipe 55 (2)	8/5/21	1440	G	Solid			X	X	X		
Pipe 78 (2)	8/6/21	0905	G	Solid			X	X	X		
Pipe 79 (2)	8/6/21	0940	G	Solid			X	X	X		
7551-P7 (3)	8/6/21	0945	G	Solid			X	X	X		
Pipe 82 (2)	8/6/21	1010	G	Solid			X	X	X		
7551-P6 (3)	8/6/21	1015	G	Solid			X	X	X		
Pipe 81 (2)	8/6/21	1025	G	Solid			X	X	X		
Pipe 83 (2)	8/6/21	1030	G	Solid			X	X	X		
Pipe 80 (2)	8/6/21	1040	G	Solid			X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/6/21 1240	Stantec	Pierce	8/6/21 12:40	
2	Pierce	8/6/21 1510				
3					8/6/21 15:23	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.6-1.9

Ver 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: SP/TA/DH/ES	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-30581-9562 4
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 4 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days):			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Special Instructions/Note:
					N	N	A	
Pipe 50 (2)	8/5/21	1250	G	Solid	X	X	X	
Pipe 49 (2)	8/5/21	1255	G	Solid	X	X	X	
Pipe 45 (2)	8/5/21	1300	G	Solid	X	X	X	
Pipe 47 (2)	8/5/21	1305	G	Solid	X	X	X	
Pipe 46 (2)	8/5/21	1310	G	Solid	X	X	X	
Pipe 48 (2)	8/5/21	1320	G	Solid	X	X	X	
1043-P5 (3)	8/5/21	1325	G	Solid	X	X	X	
1043-P4 (3)	8/5/21	1330	G	~~Water~~ Solid	X	X	X	
1043-P1 (3)	8/5/21	1340	G	~~Water~~ Solid	X	X	X	
Pipe 51 (2)	8/5/21	1350	G	~~Water~~ Solid	X	X	X	
Pipe 52 (2)	8/5/21	1400	G	~~Water~~ Solid	X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

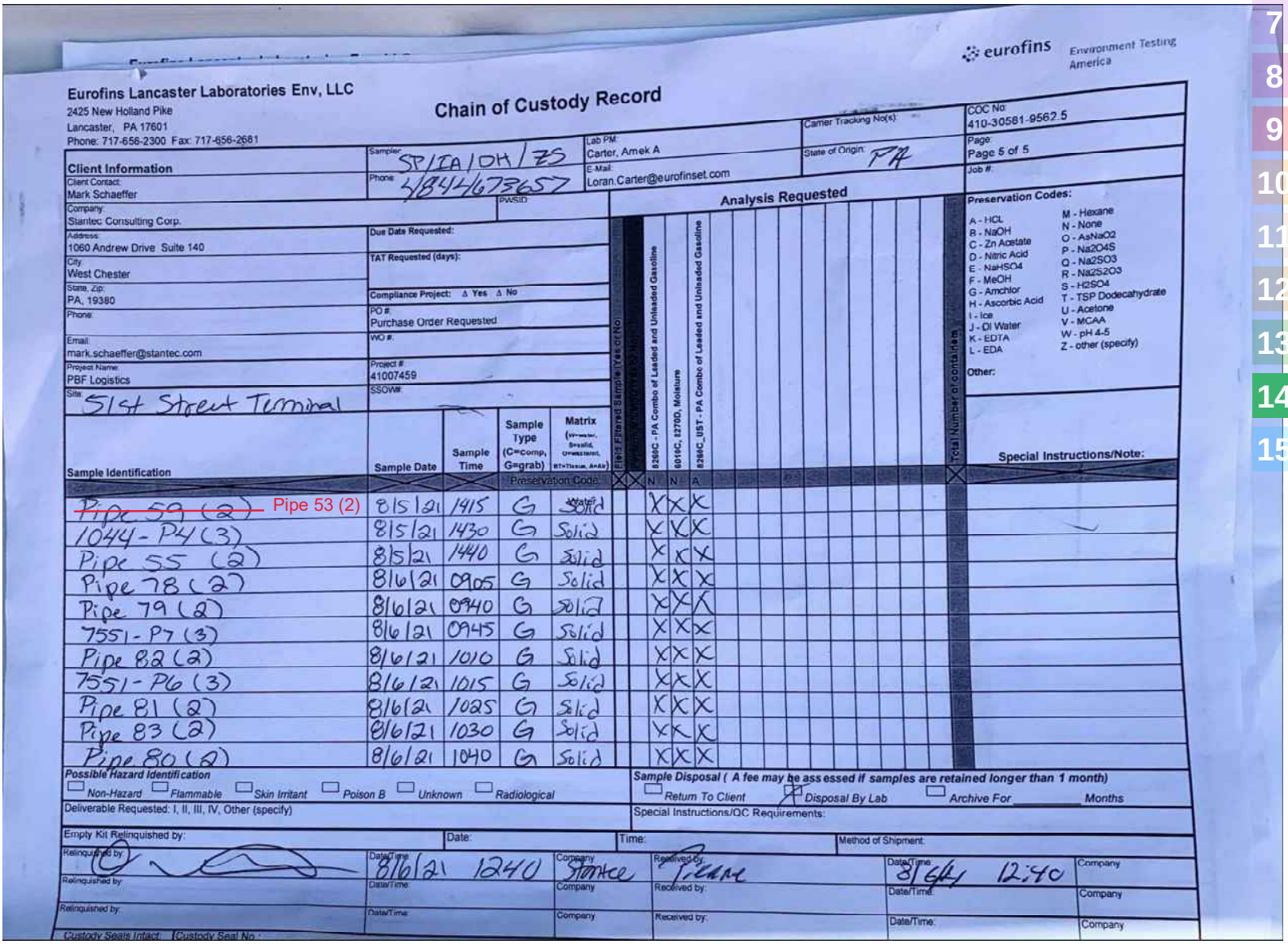
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/6/21 1240	Stantec	Pierre	8/6/21 1240	
2	Pierre	8/6/21 1500				
3					8/6/21 1523	

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.4 - 1.9

Ver: 06/08/2021



eurofins Environment Testing America

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

Client Information
Client Contact: Mark Schaeffer
Company: Stantec Consulting Corp.
Address: 1060 Andrew Drive Suite 140
City: West Chester
State, Zip: PA, 19380
Phone:
Email: mark.schaeffer@stantec.com
Project Name: PBF Logistics
Site: 51st Street Terminal

Sampler: SP/IA/DH/ZS
Phone: 4844673657
PWSID:
Due Date Requested:
TAT Requested (days):
Compliance Project: Δ Yes Δ No
PO #: Purchase Order Requested
WO #:
Project #: 41007459
SSOW#:

Lab PM: Carter, Amek A
E-Mail: Loran.Carter@eurofinset.com
Carrier Tracking No(s):
State of Origin: PA

COC No: 410-30581-9562.5
Page: Page 5 of 5
Job #:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 1270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A		
~~Pipe 59 (2)~~ Pipe 53 (2)	8/5/21	1415	G	Solid			X	X	X		
1044-P4 (3)	8/5/21	1430	G	Solid			X	X	X		
Pipe 55 (2)	8/5/21	1440	G	Solid			X	X	X		
Pipe 78 (2)	8/6/21	0905	G	Solid			X	X	X		
Pipe 79 (2)	8/6/21	0940	G	Solid			X	X	X		
7551-P7 (3)	8/6/21	0945	G	Solid			X	X	X		
Pipe 82 (2)	8/6/21	1010	G	Solid			X	X	X		
7551-P6 (3)	8/6/21	1015	G	Solid			X	X	X		
Pipe 81 (2)	8/6/21	1025	G	Solid			X	X	X		
Pipe 83 (2)	8/6/21	1030	G	Solid			X	X	X		
Pipe 80 (2)	8/6/21	1040	G	Solid			X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	8/6/21 1240	Stantec		8/6/21 12:40	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Custody Seal No.:

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-50281-1

Login Number: 50281

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Lugardo, Tamara

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-50503-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/16/2021 12:53:34 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
8/16/2021 12:53:34 PM

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Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
FL	MS and/or MSD recovery below control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-50503-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-50503-1

Receipt
The samples were received on 8/9/2021 4:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: Pipe 86 (2) (410-50503-3), Pipe 74 (2) (410-50503-4) and Pipe 72 (2) (410-50503-9). Elevated reporting limits (RLs) are provided.

Method 8260C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for analysis: Pipe 85 (2) (410-50503-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Client Sample ID: Pipe 85 (2) — Lab Sample ID: 410-50503-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	320		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	590		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	560		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	750		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	460		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	650		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	490		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	910		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1200		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	180		1.7	0.67	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-P4 (3) — Lab Sample ID: 410-50503-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	34		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	120		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	110		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	120		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	64		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	110		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	14	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	130		19	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	190		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	29		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 86 (2) — Lab Sample ID: 410-50503-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	53	J	410	49	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	48	J	410	32	ug/Kg	50	☼	8260C	Total/NA
Anthracene	3200		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4500		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	850		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - DL	12000		230	46	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene - DL	7900		230	46	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	9900		230	46	ug/Kg	10	☼	8270D	Total/NA
Chrysene - DL	10000		230	46	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene - DL	11000		230	55	ug/Kg	10	☼	8270D	Total/NA
Pyrene - DL	16000		230	46	ug/Kg	10	☼	8270D	Total/NA
Lead	540		1.5	0.58	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 74 (2) — Lab Sample ID: 410-50503-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	61	J	370	30	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	66	J	370	37	ug/Kg	50	☼	8260C	Total/NA
Toluene	280	J	370	45	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	280	J	750	100	ug/Kg	50	☼	8260C	Total/NA
Benzene	55	J	370	37	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	430		370	150	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	92	J	370	37	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	670		370	30	ug/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 74 (2) (Continued)

Lab Sample ID: 410-50503-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	1500		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	4600		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	3800		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	4300		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2600		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	3800		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	510		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	4500		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene - DL	6500		110	22	ug/Kg	5	☼	8270D	Total/NA
Lead	160		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 84 (2)

Lab Sample ID: 410-50503-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.43	J	4.7	0.37	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.78	J	4.7	0.47	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.5	J	4.7	0.56	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.3	J	9.3	1.3	ug/Kg	1	☼	8260C	Total/NA
Benzene	8.6		4.7	0.47	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	3.2	J	4.7	1.9	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.77	J	4.7	0.47	ug/Kg	1	☼	8260C	Total/NA
Anthracene	1500		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	3400		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2600		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	3100		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1600		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	2800		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	610		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene - DL	4800		180	43	ug/Kg	10	☼	8270D	Total/NA
Pyrene - DL	5500		180	36	ug/Kg	10	☼	8270D	Total/NA
Lead	51		1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: UNK-ST-S (3)

Lab Sample ID: 410-50503-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.85	J	7.9	0.63	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	6.6	J	7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.8	J	7.9	0.94	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	7.2	J	16	2.2	ug/Kg	1	☼	8260C	Total/NA
Methyl tertiary butyl ether	1.8	J	7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.8	J	7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	3.3	J	7.9	3.1	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	12		7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
Anthracene	24	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	25	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	15	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	23	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	22	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	200		26	6.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	98		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Lead	39		2.2	0.87	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Client Sample ID: UNK-ST-N (3)

Lab Sample ID: 410-50503-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	310	J	430	34	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1100		430	43	ug/Kg	50	☼	8260C	Total/NA
Toluene	740		430	51	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	2400		860	120	ug/Kg	50	☼	8260C	Total/NA
Benzene	560		430	43	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	3400		430	170	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2800		430	43	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	120	J	430	34	ug/Kg	50	☼	8260C	Total/NA
Benzo[g,h,i]perylene	2700		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	3800		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Anthracene - DL	11000		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene - DL	8700		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene - DL	5300		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	6800		210	42	ug/Kg	10	☼	8270D	Total/NA
Chrysene - DL	8000		210	42	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene - DL	29000		210	51	ug/Kg	10	☼	8270D	Total/NA
Pyrene - DL	15000		210	42	ug/Kg	10	☼	8270D	Total/NA
Lead	65		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 71 (2)

Lab Sample ID: 410-50503-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	350	J	490	39	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	970		490	49	ug/Kg	50	☼	8260C	Total/NA
Toluene	170	J	490	59	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	1200		990	140	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1900		490	49	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	580		490	39	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	89		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	75		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	92		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	86		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	130		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	730	FL	27	5.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	680	FL	27	6.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	970		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Lead	130		2.3	0.93	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 72 (2)

Lab Sample ID: 410-50503-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	88	J	370	37	ug/Kg	50	☼	8260C	Total/NA
Toluene	230	J	370	44	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	330	J	730	100	ug/Kg	50	☼	8260C	Total/NA
Benzene	49	J	370	37	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	180	J	370	37	ug/Kg	50	☼	8260C	Total/NA
Anthracene	38		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	150		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	160		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	130		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	150		22	4.5	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 72 (2) (Continued)

Lab Sample ID: 410-50503-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	14	J	22	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	110		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	220		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	160		1.8	0.72	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 70 (2)

Lab Sample ID: 410-50503-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	80	J	520	41	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1100		520	52	ug/Kg	50	☼	8260C	Total/NA
Toluene	320	J	520	62	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	590	J	1000	140	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1500		520	52	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	46		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	56		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	69		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	58		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	76		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	590		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	760		27	6.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	470		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Lead	750		2.3	0.92	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Dup-4

Lab Sample ID: 410-50503-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	100	J	470	37	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1300		470	47	ug/Kg	50	☼	8260C	Total/NA
Toluene	450	J	470	56	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	770	J	930	130	ug/Kg	50	☼	8260C	Total/NA
Benzene	68	J	470	47	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2100		470	47	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	41	J	470	37	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	69		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	47		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	79		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	54		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	150		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	1200		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1900		24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	780		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Lead	210		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-50503-12

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 85 (2)

Lab Sample ID: 410-50503-1

Date Collected: 08/06/21 12:45

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 74.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1000	83	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
1,2-Dichloroethane	ND		1000	130	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
1,3,5-Trimethylbenzene	ND		1000	100	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
Toluene	ND		1000	130	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
Xylenes, Total	ND		2100	290	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
Methyl tertiary butyl ether	ND		1000	100	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
Benzene	ND		1000	100	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
Naphthalene	ND		1000	420	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
1,2,4-Trimethylbenzene	ND		1000	100	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
Isopropylbenzene	ND		1000	83	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
1,2-Dibromoethane	ND		1000	83	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/10/21 09:23*	*08/12/21 14:49*	*100*
4-Bromofluorobenzene (Surr)	*115*		*50 - 131*	*08/10/21 09:23*	*08/12/21 14:49*	*100*
Dibromofluoromethane (Surr)	*100*		*50 - 141*	*08/10/21 09:23*	*08/12/21 14:49*	*100*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/10/21 09:23*	*08/12/21 14:49*	*100*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**320**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Benzo[a]anthracene	**590**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Benzo[a]pyrene	**560**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Benzo[b]fluoranthene	**750**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Benzo[g,h,i]perylene	**460**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Chrysene	**650**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Fluorene	**490**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Phenanthrene	**910**		22	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Pyrene	**1200**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*39 - 100*	*08/10/21 17:56*	*08/11/21 13:25*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/10/21 17:56*	*08/11/21 13:25*	*1*
p-Terphenyl-d14 (Surr)	*73*		*45 - 108*	*08/10/21 17:56*	*08/11/21 13:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**180**		1.7	0.67	mg/Kg	☼	08/09/21 20:35	08/12/21 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.6**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: 7551-P4 (3)

Lab Sample ID: 410-50503-2

Date Collected: 08/06/21 12:50

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 85.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		4.6	0.37	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
1,2-Dichloroethane	ND		4.6	0.55	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1

Client Sample ID: 7551-P4 (3)

Date Collected: 08/06/21 12:50
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-2

Matrix: Solid
Percent Solids: 85.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		4.6	0.46	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
Toluene	ND		4.6	0.55	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
Xylenes, Total	ND		9.1	1.3	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
Methyl tertiary butyl ether	ND		4.6	0.46	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
Benzene	ND		4.6	0.46	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
Naphthalene	ND		4.6	1.8	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
1,2,4-Trimethylbenzene	ND		4.6	0.46	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
Isopropylbenzene	ND		4.6	0.37	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
1,2-Dibromoethane	ND		4.6	0.37	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/10/21 09:23*	*08/11/21 16:48*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*08/10/21 09:23*	*08/11/21 16:48*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/10/21 09:23*	*08/11/21 16:48*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/10/21 09:23*	*08/11/21 16:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**34**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Benzo[a]anthracene	**120**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Benzo[a]pyrene	**110**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Benzo[b]fluoranthene	**120**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Benzo[g,h,i]perylene	**64**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Chrysene	**110**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Fluorene	**14**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Phenanthrene	**130**		19	4.7	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Pyrene	**190**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*39 - 100*	*08/10/21 17:56*	*08/11/21 13:48*	*1*
Nitrobenzene-d5 (Surr)	*77*		*32 - 97*	*08/10/21 17:56*	*08/11/21 13:48*	*1*
p-Terphenyl-d14 (Surr)	*93*		*45 - 108*	*08/10/21 17:56*	*08/11/21 13:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**29**		1.6	0.64	mg/Kg	☼	08/09/21 20:35	08/12/21 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.3**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Pipe 86 (2)

Date Collected: 08/06/21 13:00
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-3

Matrix: Solid
Percent Solids: 71.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		410	32	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
1,2-Dichloroethane	ND		410	49	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
1,3,5-Trimethylbenzene	ND		410	41	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
Toluene	**53**	**J**	410	49	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50

Client Sample ID: Pipe 86 (2)
Date Collected: 08/06/21 13:00
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-3
Matrix: Solid
Percent Solids: 71.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		810	110	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
Methyl tertiary butyl ether	ND		410	41	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
Benzene	ND		410	41	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
Naphthalene	ND		410	160	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
1,2,4-Trimethylbenzene	ND		410	41	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
Isopropylbenzene	**48**	**J**	410	32	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
1,2-Dibromoethane	ND		410	32	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*74*		*54 - 135*	*08/10/21 09:23*	*08/12/21 15:10*	*50*
4-Bromofluorobenzene (Surr)	*66*		*50 - 131*	*08/10/21 09:23*	*08/12/21 15:10*	*50*
Dibromofluoromethane (Surr)	*73*		*50 - 141*	*08/10/21 09:23*	*08/12/21 15:10*	*50*
Toluene-d8 (Surr)	*68*		*52 - 141*	*08/10/21 09:23*	*08/12/21 15:10*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**3200**		23	4.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:11	1
Benzo[g,h,i]perylene	**4500**		23	4.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:11	1
Fluorene	**850**		23	4.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*08/10/21 17:56*	*08/11/21 14:11*	*1*
Nitrobenzene-d5 (Surr)	*59*		*32 - 97*	*08/10/21 17:56*	*08/11/21 14:11*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*	*08/10/21 17:56*	*08/11/21 14:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**12000**		230	46	ug/Kg	☼	08/10/21 17:56	08/11/21 23:35	10
Benzo[a]pyrene	**7900**		230	46	ug/Kg	☼	08/10/21 17:56	08/11/21 23:35	10
Benzo[b]fluoranthene	**9900**		230	46	ug/Kg	☼	08/10/21 17:56	08/11/21 23:35	10
Chrysene	**10000**		230	46	ug/Kg	☼	08/10/21 17:56	08/11/21 23:35	10
Phenanthrene	**11000**		230	55	ug/Kg	☼	08/10/21 17:56	08/11/21 23:35	10
Pyrene	**16000**		230	46	ug/Kg	☼	08/10/21 17:56	08/11/21 23:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*39 - 100*	*08/10/21 17:56*	*08/11/21 23:35*	*10*
Nitrobenzene-d5 (Surr)	*58*		*32 - 97*	*08/10/21 17:56*	*08/11/21 23:35*	*10*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/10/21 17:56*	*08/11/21 23:35*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**540**		1.5	0.58	mg/Kg	☼	08/09/21 20:35	08/12/21 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.5**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Pipe 74 (2)
Date Collected: 08/06/21 13:15
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-4
Matrix: Solid
Percent Solids: 74.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	61	J	370	30	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
1,2-Dichloroethane	ND		370	45	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
1,3,5-Trimethylbenzene	66	J	370	37	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
Toluene	280	J	370	45	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
Xylenes, Total	280	J	750	100	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
Methyl tertiary butyl ether	ND		370	37	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
Benzene	55	J	370	37	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
Naphthalene	430		370	150	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
1,2,4-Trimethylbenzene	92	J	370	37	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
Isopropylbenzene	670		370	30	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
1,2-Dibromoethane	ND		370	30	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*68*		*54 - 135*	*08/10/21 09:23*	*08/12/21 15:31*	*50*
4-Bromofluorobenzene (Surr)	*61*		*50 - 131*	*08/10/21 09:23*	*08/12/21 15:31*	*50*
Dibromofluoromethane (Surr)	*60*		*50 - 141*	*08/10/21 09:23*	*08/12/21 15:31*	*50*
Toluene-d8 (Surr)	*63*		*52 - 141*	*08/10/21 09:23*	*08/12/21 15:31*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	1500		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Benzo[a]anthracene	4600		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Benzo[a]pyrene	3800		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Benzo[b]fluoranthene	4300		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Benzo[g,h,i]perylene	2600		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Chrysene	3800		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Fluorene	510		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Phenanthrene	4500		22	5.3	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*	*08/12/21 18:24*	*08/13/21 14:27*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/12/21 18:24*	*08/13/21 14:27*	*1*
p-Terphenyl-d14 (Surr)	*77*		*45 - 108*	*08/12/21 18:24*	*08/13/21 14:27*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	6500		110	22	ug/Kg	☼	08/12/21 18:24	08/13/21 23:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*	*08/12/21 18:24*	*08/13/21 23:44*	*5*
Nitrobenzene-d5 (Surr)	*62*		*32 - 97*	*08/12/21 18:24*	*08/13/21 23:44*	*5*
p-Terphenyl-d14 (Surr)	*77*		*45 - 108*	*08/12/21 18:24*	*08/13/21 23:44*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	160		1.4	0.57	mg/Kg	☼	08/09/21 20:35	08/12/21 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.0		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Pipe 84 (2)
Date Collected: 08/06/21 13:25
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-5
Matrix: Solid
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.43	J	4.7	0.37	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
1,2-Dichloroethane	ND		4.7	0.56	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
1,3,5-Trimethylbenzene	0.78	J	4.7	0.47	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
Toluene	2.5	J	4.7	0.56	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
Xylenes, Total	2.3	J	9.3	1.3	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
Methyl tertiary butyl ether	ND		4.7	0.47	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
Benzene	8.6		4.7	0.47	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
Naphthalene	3.2	J	4.7	1.9	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
1,2,4-Trimethylbenzene	0.77	J	4.7	0.47	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
Isopropylbenzene	ND		4.7	0.37	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
1,2-Dibromoethane	ND		4.7	0.37	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*54 - 135*	*08/10/21 10:02*	*08/11/21 17:11*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/10/21 10:02*	*08/11/21 17:11*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/10/21 10:02*	*08/11/21 17:11*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/10/21 10:02*	*08/11/21 17:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	1500		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1
Benzo[a]anthracene	3400		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1
Benzo[a]pyrene	2600		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1
Benzo[b]fluoranthene	3100		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1
Benzo[g,h,i]perylene	1600		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1
Chrysene	2800		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1
Fluorene	610		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/10/21 17:56*	*08/11/21 14:56*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/10/21 17:56*	*08/11/21 14:56*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/10/21 17:56*	*08/11/21 14:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	4800		180	43	ug/Kg	☼	08/10/21 17:56	08/11/21 23:58	10
Pyrene	5500		180	36	ug/Kg	☼	08/10/21 17:56	08/11/21 23:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/10/21 17:56*	*08/11/21 23:58*	*10*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/10/21 17:56*	*08/11/21 23:58*	*10*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*	*08/10/21 17:56*	*08/11/21 23:58*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	51		1.5	0.59	mg/Kg	☼	08/10/21 04:11	08/12/21 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: UNK-ST-S (3)

Lab Sample ID: 410-50503-6

Date Collected: 08/06/21 13:45
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 63.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**0.85**	**J**	7.9	0.63	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
1,2-Dichloroethane	ND		7.9	0.94	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
1,3,5-Trimethylbenzene	**6.6**	**J**	7.9	0.79	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
Toluene	**2.8**	**J**	7.9	0.94	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
Xylenes, Total	**7.2**	**J**	16	2.2	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
Methyl tertiary butyl ether	**1.8**	**J**	7.9	0.79	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
Benzene	**1.8**	**J**	7.9	0.79	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
Naphthalene	**3.3**	**J**	7.9	3.1	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
1,2,4-Trimethylbenzene	**12**		7.9	0.79	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
Isopropylbenzene	ND		7.9	0.63	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
1,2-Dibromoethane	ND		7.9	0.63	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/10/21 10:02*	*08/11/21 16:02*	*1*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*	*08/10/21 10:02*	*08/11/21 16:02*	*1*
Dibromofluoromethane (Surr)	*17*	*S1-*	*50 - 141*	*08/10/21 10:02*	*08/11/21 16:02*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/10/21 10:02*	*08/11/21 16:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**24**	**J**	26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Benzo[a]anthracene	**25**	**J**	26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Benzo[a]pyrene	**15**	**J**	26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Benzo[b]fluoranthene	**23**	**J**	26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Benzo[g,h,i]perylene	ND		26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Chrysene	**22**	**J**	26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Fluorene	ND		26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Phenanthrene	**200**		26	6.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Pyrene	**98**		26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*39 - 100*	*08/10/21 17:56*	*08/11/21 15:19*	*1*
Nitrobenzene-d5 (Surr)	*44*		*32 - 97*	*08/10/21 17:56*	*08/11/21 15:19*	*1*
p-Terphenyl-d14 (Surr)	*75*		*45 - 108*	*08/10/21 17:56*	*08/11/21 15:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**39**		2.2	0.87	mg/Kg	☼	08/10/21 04:11	08/12/21 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**36.4**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: UNK-ST-N (3)

Lab Sample ID: 410-50503-7

Date Collected: 08/06/21 14:00
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 78.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**310**	**J**	430	34	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
1,2-Dichloroethane	ND		430	51	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50

Client Sample ID: UNK-ST-N (3)
Date Collected: 08/06/21 14:00
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-7
Matrix: Solid
Percent Solids: 78.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1100		430	43	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
Toluene	740		430	51	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
Xylenes, Total	2400		860	120	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
Methyl tertiary butyl ether	ND		430	43	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
Benzene	560		430	43	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
Naphthalene	3400		430	170	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
1,2,4-Trimethylbenzene	2800		430	43	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
Isopropylbenzene	120	J	430	34	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
1,2-Dibromoethane	ND		430	34	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*71*		*54 - 135*	*08/10/21 10:02*	*08/12/21 15:51*	*50*
4-Bromofluorobenzene (Surr)	*64*		*50 - 131*	*08/10/21 10:02*	*08/12/21 15:51*	*50*
Dibromofluoromethane (Surr)	*19*	*S1-*	*50 - 141*	*08/10/21 10:02*	*08/12/21 15:51*	*50*
Toluene-d8 (Surr)	*66*		*52 - 141*	*08/10/21 10:02*	*08/12/21 15:51*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	2700		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:42	1
Fluorene	3800		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*08/10/21 17:56*	*08/11/21 15:42*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/10/21 17:56*	*08/11/21 15:42*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*08/10/21 17:56*	*08/11/21 15:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	11000		210	42	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10
Benzo[a]anthracene	8700		210	42	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10
Benzo[a]pyrene	5300		210	42	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10
Benzo[b]fluoranthene	6800		210	42	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10
Chrysene	8000		210	42	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10
Phenanthrene	29000		210	51	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10
Pyrene	15000		210	42	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/10/21 17:56*	*08/12/21 00:20*	*10*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/10/21 17:56*	*08/12/21 00:20*	*10*
p-Terphenyl-d14 (Surr)	*91*		*45 - 108*	*08/10/21 17:56*	*08/12/21 00:20*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	65		1.6	0.64	mg/Kg	☼	08/10/21 04:11	08/12/21 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.7		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Pipe 71 (2)

Lab Sample ID: 410-50503-8

Date Collected: 08/09/21 11:30
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 62.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**350**	**J**	490	39	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
1,2-Dichloroethane	ND		490	59	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
1,3,5-Trimethylbenzene	**970**		490	49	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
Toluene	**170**	**J**	490	59	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
Xylenes, Total	**1200**		990	140	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
Methyl tertiary butyl ether	ND		490	49	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
Benzene	ND		490	49	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
Naphthalene	ND		490	200	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
1,2,4-Trimethylbenzene	**1900**		490	49	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
Isopropylbenzene	**580**		490	39	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
1,2-Dibromoethane	ND		490	39	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*70*		*54 - 135*	*08/10/21 10:02*	*08/12/21 16:12*	*50*
4-Bromofluorobenzene (Surr)	*61*		*50 - 131*	*08/10/21 10:02*	*08/12/21 16:12*	*50*
Dibromofluoromethane (Surr)	*63*		*50 - 141*	*08/10/21 10:02*	*08/12/21 16:12*	*50*
Toluene-d8 (Surr)	*60*		*52 - 141*	*08/10/21 10:02*	*08/12/21 16:12*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Benzo[a]anthracene	**89**		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Benzo[a]pyrene	**75**		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Benzo[b]fluoranthene	**92**		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Benzo[g,h,i]perylene	**86**		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Chrysene	**130**		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Fluorene	**730**	**FL**	27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Phenanthrene	**680**	**FL**	27	6.4	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Pyrene	**970**		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*39 - 100*	*08/10/21 17:56*	*08/11/21 16:04*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*08/10/21 17:56*	*08/11/21 16:04*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*	*08/10/21 17:56*	*08/11/21 16:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**130**		2.3	0.93	mg/Kg	☼	08/10/21 04:11	08/12/21 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**37.9**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Pipe 72 (2)

Lab Sample ID: 410-50503-9

Date Collected: 08/09/21 11:55
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 74.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		370	29	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
1,2-Dichloroethane	ND		370	44	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50

Client Sample ID: Pipe 72 (2)

Lab Sample ID: 410-50503-9

Date Collected: 08/09/21 11:55
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 74.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	88	J	370	37	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
Toluene	230	J	370	44	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
Xylenes, Total	330	J	730	100	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
Methyl tertiary butyl ether	ND		370	37	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
Benzene	49	J	370	37	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
Naphthalene	ND		370	150	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
1,2,4-Trimethylbenzene	180	J	370	37	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
Isopropylbenzene	ND		370	29	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
1,2-Dibromoethane	ND		370	29	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*69*		*54 - 135*	*08/10/21 10:02*	*08/12/21 16:33*	*50*
4-Bromofluorobenzene (Surr)	*62*		*50 - 131*	*08/10/21 10:02*	*08/12/21 16:33*	*50*
Dibromofluoromethane (Surr)	*64*		*50 - 141*	*08/10/21 10:02*	*08/12/21 16:33*	*50*
Toluene-d8 (Surr)	*63*		*52 - 141*	*08/10/21 10:02*	*08/12/21 16:33*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	38		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Benzo[a]anthracene	150		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Benzo[a]pyrene	160		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Benzo[b]fluoranthene	190		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Benzo[g,h,i]perylene	130		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Chrysene	150		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Fluorene	14	J	22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Phenanthrene	110		22	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Pyrene	220		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/11/21 09:56*	*08/12/21 19:55*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/11/21 09:56*	*08/12/21 19:55*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/11/21 09:56*	*08/12/21 19:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	160		1.8	0.72	mg/Kg	☼	08/10/21 04:11	08/12/21 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.0		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Pipe 70 (2)

Lab Sample ID: 410-50503-10

Date Collected: 08/09/21 12:15
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 62.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	80	J	520	41	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
1,2-Dichloroethane	ND		520	62	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
1,3,5-Trimethylbenzene	1100		520	52	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
Toluene	320	J	520	62	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50

Client Sample ID: Pipe 70 (2)

Lab Sample ID: 410-50503-10

Date Collected: 08/09/21 12:15
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 62.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**590**	**J**	1000	140	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
Methyl tertiary butyl ether	ND		520	52	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
Benzene	ND		520	52	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
Naphthalene	ND		520	210	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
1,2,4-Trimethylbenzene	**1500**		520	52	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
Isopropylbenzene	ND		520	41	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
1,2-Dibromoethane	ND		520	41	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*68*		*54 - 135*	*08/10/21 10:02*	*08/12/21 16:54*	*50*
4-Bromofluorobenzene (Surr)	*61*		*50 - 131*	*08/10/21 10:02*	*08/12/21 16:54*	*50*
Dibromofluoromethane (Surr)	*61*		*50 - 141*	*08/10/21 10:02*	*08/12/21 16:54*	*50*
Toluene-d8 (Surr)	*61*		*52 - 141*	*08/10/21 10:02*	*08/12/21 16:54*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Benzo[a]anthracene	**46**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Benzo[a]pyrene	**56**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Benzo[b]fluoranthene	**69**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Benzo[g,h,i]perylene	**58**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Chrysene	**76**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Fluorene	**590**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Phenanthrene	**760**		27	6.4	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Pyrene	**470**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*39 - 100*	*08/11/21 09:56*	*08/12/21 20:18*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*08/11/21 09:56*	*08/12/21 20:18*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*08/11/21 09:56*	*08/12/21 20:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**750**		2.3	0.92	mg/Kg	☼	08/10/21 04:11	08/12/21 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**37.7**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Dup-4

Lab Sample ID: 410-50503-11

Date Collected: 08/09/21 00:00
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 68.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**100**	**J**	470	37	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
1,2-Dichloroethane	ND		470	56	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
1,3,5-Trimethylbenzene	**1300**		470	47	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
Toluene	**450**	**J**	470	56	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
Xylenes, Total	**770**	**J**	930	130	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
Methyl tertiary butyl ether	ND		470	47	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50

Client Sample ID: Dup-4

Lab Sample ID: 410-50503-11

Date Collected: 08/09/21 00:00
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 68.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**68**	**J**	470	47	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
Naphthalene	ND		470	190	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
1,2,4-Trimethylbenzene	**2100**		470	47	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
Isopropylbenzene	**41**	**J**	470	37	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
1,2-Dibromoethane	ND		470	37	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*66*		*54 - 135*	*08/10/21 10:02*	*08/12/21 17:14*	*50*
4-Bromofluorobenzene (Surr)	*61*		*50 - 131*	*08/10/21 10:02*	*08/12/21 17:14*	*50*
Dibromofluoromethane (Surr)	*55*		*50 - 141*	*08/10/21 10:02*	*08/12/21 17:14*	*50*
Toluene-d8 (Surr)	*60*		*52 - 141*	*08/10/21 10:02*	*08/12/21 17:14*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Benzo[a]anthracene	**69**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Benzo[a]pyrene	**47**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Benzo[b]fluoranthene	**79**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Benzo[g,h,i]perylene	**54**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Chrysene	**150**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Fluorene	**1200**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Phenanthrene	**1900**		24	5.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Pyrene	**780**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*39 - 100*	*08/11/21 09:56*	*08/13/21 00:23*	*1*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*	*08/11/21 09:56*	*08/13/21 00:23*	*1*
p-Terphenyl-d14 (Surr)	*73*		*45 - 108*	*08/11/21 09:56*	*08/13/21 00:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**210**		1.6	0.64	mg/Kg	☼	08/10/21 04:11	08/12/21 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.5**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-50503-12

Date Collected: 08/09/21 00:00
Matrix: Water
Date Received: 08/09/21 16:02

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/12/21 15:18	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/12/21 15:18	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/12/21 15:18	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/12/21 15:18	1
Toluene	ND		1.0	0.30	ug/L			08/12/21 15:18	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/12/21 15:18	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/12/21 15:18	1
Benzene	ND		1.0	0.30	ug/L			08/12/21 15:18	1

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Client Sample ID: Trip Blank
Date Collected: 08/09/21 00:00
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-12
Matrix: Water

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0	1.0	ug/L			08/12/21 15:18	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/12/21 15:18	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/12/21 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/12/21 15:18*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/12/21 15:18*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*08/12/21 15:18*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/12/21 15:18*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-50503-1	Pipe 85 (2)	111	115	100	91
410-50503-2	7551-P4 (3)	113	92	104	97
410-50503-3	Pipe 86 (2)	74	66	73	68
410-50503-4	Pipe 74 (2)	68	61	60	63
410-50503-5	Pipe 84 (2)	109	95	102	97
410-50503-6	UNK-ST-S (3)	111	97	17 S1-	98
410-50503-7	UNK-ST-N (3)	71	64	19 S1-	66
410-50503-8	Pipe 71 (2)	70	61	63	60
410-50503-9	Pipe 72 (2)	69	62	64	63
410-50503-10	Pipe 70 (2)	68	61	61	61
410-50503-11	Dup-4	66	61	55	60
LCS 410-159083/4	Lab Control Sample	101	97	99	100
LCS 410-159518/4	Lab Control Sample	97	87	95	91
LCS 410-160023/4	Lab Control Sample	92	83	93	89
LCSD 410-159083/5	Lab Control Sample Dup	101	97	99	101
LCSD 410-159518/5	Lab Control Sample Dup	99	86	96	90
LCSD 410-160023/5	Lab Control Sample Dup	95	84	95	89
MB 410-159083/7	Method Blank	102	93	101	99
MB 410-159518/7	Method Blank	103	86	98	92
MB 410-160023/7	Method Blank	105	87	99	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-50503-12	Trip Blank	97	103	102	93
LCS 410-159657/4	Lab Control Sample	98	104	99	95
LCSD 410-159657/5	Lab Control Sample Dup	98	101	99	93
MB 410-159657/6	Method Blank	97	103	101	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-50503-1	Pipe 85 (2)	75	66	73

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 410-50503-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)						
410-50503-2	7551-P4 (3)	92	77	93						
410-50503-3	Pipe 86 (2)	74	59	78						
410-50503-3 - DL	Pipe 86 (2)	75	58	80						
410-50503-4	Pipe 74 (2)	77	67	77						
410-50503-4 - DL	Pipe 74 (2)	72	62	77						
410-50503-5	Pipe 84 (2)	82	66	85						
410-50503-5 - DL	Pipe 84 (2)	82	66	88						
410-50503-6	UNK-ST-S (3)	58	44	75						
410-50503-7	UNK-ST-N (3)	86	75	89						
410-50503-7 - DL	UNK-ST-N (3)	89	72	91						
410-50503-8	Pipe 71 (2)	63	79	78						
410-50503-8 MS	Pipe 71 (2)	64	84	83						
410-50503-8 MSD	Pipe 71 (2)	66	86	72						
410-50503-9	Pipe 72 (2)	81	69	85						
410-50503-10	Pipe 70 (2)	66	68	79						
410-50503-11	Dup-4	60	61	73						
LCS 410-158764/2-A	Lab Control Sample	98	79	92						
LCS 410-158969/2-A	Lab Control Sample	72	56	85						
LCS 410-159833/2-A	Lab Control Sample	93	74	92						
MB 410-158764/1-A	Method Blank	91	79	94						
MB 410-158969/1-A	Method Blank	77	58	96						
MB 410-159833/1-A	Method Blank	87	69	90						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-159083/7
Matrix: Solid
Analysis Batch: 159083

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/11/21 14:49	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/11/21 14:49	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/11/21 14:49	1
Toluene	ND		5.0	0.60	ug/Kg			08/11/21 14:49	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/11/21 14:49	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/11/21 14:49	1
Benzene	ND		5.0	0.50	ug/Kg			08/11/21 14:49	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/11/21 14:49	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/11/21 14:49	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/11/21 14:49	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/11/21 14:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*		*08/11/21 14:49*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*		*08/11/21 14:49*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 141*		*08/11/21 14:49*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*		*08/11/21 14:49*	*1*

Lab Sample ID: LCS 410-159083/4
Matrix: Solid
Analysis Batch: 159083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	18.7		ug/Kg		93	78 - 120		
1,2-Dichloroethane			20.0	20.2		ug/Kg		101	71 - 128		
1,3,5-Trimethylbenzene			20.0	18.5		ug/Kg		93	73 - 120		
Toluene			20.0	18.7		ug/Kg		94	80 - 120		
Xylenes, Total			60.0	56.2		ug/Kg		94	75 - 120		
Methyl tertiary butyl ether			20.0	21.0		ug/Kg		105	72 - 120		
Benzene			20.0	19.9		ug/Kg		100	80 - 120		
Naphthalene			20.0	19.0		ug/Kg		95	48 - 130		
1,2,4-Trimethylbenzene			20.0	18.8		ug/Kg		94	73 - 120		
Isopropylbenzene			20.0	18.3		ug/Kg		92	77 - 120		
1,2-Dibromoethane			20.0	20.4		ug/Kg		102	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*100*		*52 - 141*

Lab Sample ID: LCSD 410-159083/5
Matrix: Solid
Analysis Batch: 159083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.7		ug/Kg		94	78 - 120	0	30
1,2-Dichloroethane			20.0	20.2		ug/Kg		101	71 - 128	0	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-159083/5
Matrix: Solid
Analysis Batch: 159083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	18.5		ug/Kg		93	73 - 120	0	30
Toluene			20.0	18.7		ug/Kg		94	80 - 120	0	30
Xylenes, Total			60.0	56.6		ug/Kg		94	75 - 120	1	30
Methyl tertiary butyl ether			20.0	20.9		ug/Kg		105	72 - 120	0	30
Benzene			20.0	19.7		ug/Kg		98	80 - 120	1	30
Naphthalene			20.0	18.7		ug/Kg		94	48 - 130	2	30
1,2,4-Trimethylbenzene			20.0	18.8		ug/Kg		94	73 - 120	0	30
Isopropylbenzene			20.0	18.5		ug/Kg		92	77 - 120	1	30
1,2-Dibromoethane			20.0	20.2		ug/Kg		101	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: MB 410-159518/7
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/12/21 11:12	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/12/21 11:12	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/12/21 11:12	50
Toluene	ND		250	30	ug/Kg			08/12/21 11:12	50
Xylenes, Total	ND		500	70	ug/Kg			08/12/21 11:12	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/12/21 11:12	50
Benzene	ND		250	25	ug/Kg			08/12/21 11:12	50
Naphthalene	ND		250	100	ug/Kg			08/12/21 11:12	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/12/21 11:12	50
Isopropylbenzene	ND		250	20	ug/Kg			08/12/21 11:12	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/12/21 11:12	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*		*08/12/21 11:12*	*50*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*		*08/12/21 11:12*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*08/12/21 11:12*	*50*
Toluene-d8 (Surr)	*92*		*52 - 141*		*08/12/21 11:12*	*50*

Lab Sample ID: LCS 410-159518/4
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	958		ug/Kg		96	78 - 120
1,2-Dichloroethane			1000	935		ug/Kg		93	71 - 128
1,3,5-Trimethylbenzene			1000	875		ug/Kg		87	73 - 120
Toluene			1000	969		ug/Kg		97	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-159518/4
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			3000	2950		ug/Kg		98	75 - 120		
Methyl tertiary butyl ether			1000	960		ug/Kg		96	72 - 120		
Benzene			1000	1010		ug/Kg		101	80 - 120		
Naphthalene			1000	919		ug/Kg		92	48 - 130		
1,2,4-Trimethylbenzene			1000	874		ug/Kg		87	73 - 120		
Isopropylbenzene			1000	991		ug/Kg		99	77 - 120		
1,2-Dibromoethane			1000	979		ug/Kg		98	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*91*		*52 - 141*

Lab Sample ID: LCSD 410-159518/5
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	941		ug/Kg		94	78 - 120	2	30
1,2-Dichloroethane			1000	950		ug/Kg		95	71 - 128	2	30
1,3,5-Trimethylbenzene			1000	873		ug/Kg		87	73 - 120	0	30
Toluene			1000	961		ug/Kg		96	80 - 120	1	30
Xylenes, Total			3000	2910		ug/Kg		97	75 - 120	1	30
Methyl tertiary butyl ether			1000	980		ug/Kg		98	72 - 120	2	30
Benzene			1000	1000		ug/Kg		100	80 - 120	1	30
Naphthalene			1000	924		ug/Kg		92	48 - 130	1	30
1,2,4-Trimethylbenzene			1000	866		ug/Kg		87	73 - 120	1	30
Isopropylbenzene			1000	981		ug/Kg		98	77 - 120	1	30
1,2-Dibromoethane			1000	970		ug/Kg		97	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*
Dibromofluoromethane (Surr)	*96*		*50 - 141*
Toluene-d8 (Surr)	*90*		*52 - 141*

Lab Sample ID: MB 410-160023/7
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/13/21 10:30	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/13/21 10:30	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/13/21 10:30	50
Toluene	ND		250	30	ug/Kg			08/13/21 10:30	50
Xylenes, Total	ND		500	70	ug/Kg			08/13/21 10:30	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/13/21 10:30	50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-160023/7
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		250	25	ug/Kg			08/13/21 10:30	50
Naphthalene	ND		250	100	ug/Kg			08/13/21 10:30	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/13/21 10:30	50
Isopropylbenzene	ND		250	20	ug/Kg			08/13/21 10:30	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/13/21 10:30	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*		*08/13/21 10:30*	*50*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*		*08/13/21 10:30*	*50*
Dibromofluoromethane (Surr)	*99*		*50 - 141*		*08/13/21 10:30*	*50*
Toluene-d8 (Surr)	*93*		*52 - 141*		*08/13/21 10:30*	*50*

Lab Sample ID: LCS 410-160023/4
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	930		ug/Kg		93	78 - 120		
1,2-Dichloroethane			1000	902		ug/Kg		90	71 - 128		
1,3,5-Trimethylbenzene			1000	870		ug/Kg		87	73 - 120		
Toluene			1000	941		ug/Kg		94	80 - 120		
Xylenes, Total			3000	2890		ug/Kg		96	75 - 120		
Methyl tertiary butyl ether			1000	949		ug/Kg		95	72 - 120		
Benzene			1000	974		ug/Kg		97	80 - 120		
Naphthalene			1000	908		ug/Kg		91	48 - 130		
1,2,4-Trimethylbenzene			1000	861		ug/Kg		86	73 - 120		
Isopropylbenzene			1000	966		ug/Kg		97	77 - 120		
1,2-Dibromoethane			1000	957		ug/Kg		96	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*54 - 135*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*
Dibromofluoromethane (Surr)	*93*		*50 - 141*
Toluene-d8 (Surr)	*89*		*52 - 141*

Lab Sample ID: LCSD 410-160023/5
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	922		ug/Kg		92	78 - 120	1	30
1,2-Dichloroethane			1000	919		ug/Kg		92	71 - 128	2	30
1,3,5-Trimethylbenzene			1000	851		ug/Kg		85	73 - 120	2	30
Toluene			1000	950		ug/Kg		95	80 - 120	1	30
Xylenes, Total			3000	2860		ug/Kg		95	75 - 120	1	30
Methyl tertiary butyl ether			1000	952		ug/Kg		95	72 - 120	0	30
Benzene			1000	979		ug/Kg		98	80 - 120	0	30
Naphthalene			1000	913		ug/Kg		91	48 - 130	1	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-160023/5
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			1000	855		ug/Kg		86	73 - 120	1	30
Isopropylbenzene			1000	964		ug/Kg		96	77 - 120	0	30
1,2-Dibromoethane			1000	956		ug/Kg		96	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*54 - 135*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*89*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-159657/6
Matrix: Water
Analysis Batch: 159657

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/12/21 13:37	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/12/21 13:37	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/12/21 13:37	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/12/21 13:37	1
Toluene	ND		1.0	0.30	ug/L			08/12/21 13:37	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/12/21 13:37	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/12/21 13:37	1
Benzene	ND		1.0	0.30	ug/L			08/12/21 13:37	1
Naphthalene	ND		5.0	1.0	ug/L			08/12/21 13:37	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/12/21 13:37	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/12/21 13:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/12/21 13:37*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/12/21 13:37*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*08/12/21 13:37*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/12/21 13:37*	*1*

Lab Sample ID: LCS 410-159657/4
Matrix: Water
Analysis Batch: 159657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	16.6		ug/L		83	77 - 120		
Ethylbenzene			20.0	17.1		ug/L		85	80 - 120		
1,2-Dichloroethane			20.0	17.0		ug/L		85	73 - 124		
1,3,5-Trimethylbenzene			20.0	15.9		ug/L		80	75 - 120		
Toluene			20.0	16.7		ug/L		84	80 - 120		
Xylenes, Total			60.0	50.6		ug/L		84	80 - 120		
Methyl tertiary butyl ether			20.0	17.7		ug/L		89	69 - 122		
Benzene			20.0	18.3		ug/L		91	80 - 120		

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-159657/4
Matrix: Water
Analysis Batch: 159657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			20.0	16.1		ug/L		80	53 - 124		
1,2,4-Trimethylbenzene			20.0	15.9		ug/L		80	75 - 120		
Isopropylbenzene			20.0	16.5		ug/L		83	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 410-159657/5
Matrix: Water
Analysis Batch: 159657

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	16.5		ug/L		83	77 - 120	1	30
Ethylbenzene			20.0	17.2		ug/L		86	80 - 120	1	30
1,2-Dichloroethane			20.0	17.5		ug/L		88	73 - 124	3	30
1,3,5-Trimethylbenzene			20.0	16.4		ug/L		82	75 - 120	3	30
Toluene			20.0	16.7		ug/L		83	80 - 120	0	30
Xylenes, Total			60.0	51.0		ug/L		85	80 - 120	1	30
Methyl tertiary butyl ether			20.0	18.2		ug/L		91	69 - 122	3	30
Benzene			20.0	18.4		ug/L		92	80 - 120	1	30
Naphthalene			20.0	16.5		ug/L		83	53 - 124	3	30
1,2,4-Trimethylbenzene			20.0	16.2		ug/L		81	75 - 120	2	30
Isopropylbenzene			20.0	16.7		ug/L		83	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-158764/1-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Chrysene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Fluorene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Phenanthrene	ND		17	4.0	ug/Kg		08/10/21 17:56	08/11/21 08:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-158764/1-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/10/21 17:56*	*08/11/21 08:09*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*08/10/21 17:56*	*08/11/21 08:09*	*1*
p-Terphenyl-d14 (Surr)	*94*		*45 - 108*	*08/10/21 17:56*	*08/11/21 08:09*	*1*

Lab Sample ID: LCS 410-158764/2-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1650		ug/Kg		99	75 - 120
Benzo[a]anthracene	1670	1670		ug/Kg		100	73 - 120
Benzo[a]pyrene	1670	1720		ug/Kg		103	80 - 123
Benzo[b]fluoranthene	1670	1510		ug/Kg		91	63 - 120
Benzo[g,h,i]perylene	1670	1710		ug/Kg		103	77 - 120
Chrysene	1670	1630		ug/Kg		98	66 - 120
Fluorene	1670	1800		ug/Kg		108	68 - 120
Phenanthrene	1670	1610		ug/Kg		97	74 - 120
Pyrene	1670	1640		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*98*		*39 - 100*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*

Lab Sample ID: 410-50503-8 MS
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Pipe 71 (2)
Prep Type: Total/NA
Prep Batch: 158764

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	ND		2660	2690		ug/Kg	☼	101	75 - 120
Benzo[a]anthracene	89		2660	2340		ug/Kg	☼	85	73 - 120
Benzo[a]pyrene	75		2660	2600		ug/Kg	☼	95	80 - 123
Benzo[b]fluoranthene	92		2660	2420		ug/Kg	☼	87	63 - 120
Benzo[g,h,i]perylene	86		2660	2610		ug/Kg	☼	95	77 - 120
Chrysene	130		2660	2300		ug/Kg	☼	81	66 - 120
Fluorene	730	FL	2660	2300	FL	ug/Kg	☼	59	68 - 120
Phenanthrene	680	FL	2660	2750		ug/Kg	☼	78	74 - 120
Pyrene	970		2660	2990		ug/Kg	☼	76	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*64*		*39 - 100*
Nitrobenzene-d5 (Surr)	*84*		*32 - 97*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-50503-8 MSD
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Pipe 71 (2)
Prep Type: Total/NA
Prep Batch: 158764

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	ND		2670	2560		ug/Kg	☼	96	75 - 120	5	30
Benzo[a]anthracene	89		2670	2220		ug/Kg	☼	80	73 - 120	5	30
Benzo[a]pyrene	75		2670	2310		ug/Kg	☼	84	80 - 123	11	30
Benzo[b]fluoranthene	92		2670	2270		ug/Kg	☼	81	63 - 120	7	30
Benzo[g,h,i]perylene	86		2670	2370		ug/Kg	☼	85	77 - 120	10	30
Chrysene	130		2670	2130		ug/Kg	☼	75	66 - 120	8	30
Fluorene	730	FL	2670	2580		ug/Kg	☼	69	68 - 120	11	30
Phenanthrene	680	FL	2670	2640	FL	ug/Kg	☼	73	74 - 120	4	30
Pyrene	970		2670	2840		ug/Kg	☼	70	70 - 120	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*66*		*39 - 100*
Nitrobenzene-d5 (Surr)	*86*		*32 - 97*
p-Terphenyl-d14 (Surr)	*72*		*45 - 108*

Lab Sample ID: MB 410-158969/1-A
Matrix: Solid
Analysis Batch: 159515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Chrysene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Fluorene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Phenanthrene	ND		17	4.0	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Pyrene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*	*08/11/21 09:56*	*08/12/21 10:00*	*1*
Nitrobenzene-d5 (Surr)	*58*		*32 - 97*	*08/11/21 09:56*	*08/12/21 10:00*	*1*
p-Terphenyl-d14 (Surr)	*96*		*45 - 108*	*08/11/21 09:56*	*08/12/21 10:00*	*1*

Lab Sample ID: LCS 410-158969/2-A
Matrix: Solid
Analysis Batch: 159515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1310		ug/Kg		78	75 - 120
Benzo[a]anthracene	1670	1310		ug/Kg		78	73 - 120
Benzo[a]pyrene	1670	1340		ug/Kg		80	80 - 123
Benzo[b]fluoranthene	1670	1270		ug/Kg		76	63 - 120
Benzo[g,h,i]perylene	1670	1420		ug/Kg		85	77 - 120
Chrysene	1670	1310		ug/Kg		79	66 - 120
Fluorene	1670	1240		ug/Kg		74	68 - 120
Phenanthrene	1670	1330		ug/Kg		80	74 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-158969/2-A
Matrix: Solid
Analysis Batch: 159515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	1670	1230		ug/Kg		74	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*
Nitrobenzene-d5 (Surr)	*56*		*32 - 97*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*

Lab Sample ID: MB 410-159833/1-A
Matrix: Solid
Analysis Batch: 160160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Chrysene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Fluorene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Phenanthrene	ND		17	4.0	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Pyrene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*	*08/12/21 18:24*	*08/13/21 11:50*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/12/21 18:24*	*08/13/21 11:50*	*1*
p-Terphenyl-d14 (Surr)	*90*		*45 - 108*	*08/12/21 18:24*	*08/13/21 11:50*	*1*

Lab Sample ID: LCS 410-159833/2-A
Matrix: Solid
Analysis Batch: 160160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1560		ug/Kg		94	75 - 120
Benzo[a]anthracene	1670	1730		ug/Kg		104	73 - 120
Benzo[a]pyrene	1670	1610		ug/Kg		97	80 - 123
Benzo[b]fluoranthene	1670	1370		ug/Kg		82	63 - 120
Benzo[g,h,i]perylene	1670	1760		ug/Kg		106	77 - 120
Chrysene	1670	1750		ug/Kg		105	66 - 120
Fluorene	1670	1710		ug/Kg		102	68 - 120
Phenanthrene	1670	1530		ug/Kg		92	74 - 120
Pyrene	1670	1560		ug/Kg		94	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*93*		*39 - 100*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-158390/1-A
Matrix: Solid
Analysis Batch: 159808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/09/21 20:35	08/12/21 12:59	1

Lab Sample ID: LCS 410-158390/2-A
Matrix: Solid
Analysis Batch: 159808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158390

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			5.00	5.18		mg/Kg		104	80 - 120		

Lab Sample ID: LCSD 410-158390/3-A
Matrix: Solid
Analysis Batch: 159808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 158390

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			5.00	5.39		mg/Kg		108	80 - 120	4	20

GC/MS VOA

Prep Batch: 158571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-2	7551-P4 (3)	Total/NA	Solid	5035	
410-50503-5	Pipe 84 (2)	Total/NA	Solid	5035	
410-50503-6 - RA	UNK-ST-S (3)	Total/NA	Solid	5035	
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	5035	

Prep Batch: 158572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	5035	
410-50503-3	Pipe 86 (2)	Total/NA	Solid	5035	
410-50503-4	Pipe 74 (2)	Total/NA	Solid	5035	
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	5035	
410-50503-7 - RA	UNK-ST-N (3)	Total/NA	Solid	5035	
410-50503-8	Pipe 71 (2)	Total/NA	Solid	5035	
410-50503-9	Pipe 72 (2)	Total/NA	Solid	5035	
410-50503-10	Pipe 70 (2)	Total/NA	Solid	5035	
410-50503-11	Dup-4	Total/NA	Solid	5035	

Analysis Batch: 159083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-2	7551-P4 (3)	Total/NA	Solid	8260C	158571
410-50503-5	Pipe 84 (2)	Total/NA	Solid	8260C	158571
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	8260C	158571
MB 410-159083/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159083/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159083/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 159518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	8260C	158572
410-50503-3	Pipe 86 (2)	Total/NA	Solid	8260C	158572
410-50503-4	Pipe 74 (2)	Total/NA	Solid	8260C	158572
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	8260C	158572
410-50503-8	Pipe 71 (2)	Total/NA	Solid	8260C	158572
410-50503-9	Pipe 72 (2)	Total/NA	Solid	8260C	158572
410-50503-10	Pipe 70 (2)	Total/NA	Solid	8260C	158572
410-50503-11	Dup-4	Total/NA	Solid	8260C	158572
MB 410-159518/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159518/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159518/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 159582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-6 - RA	UNK-ST-S (3)	Total/NA	Solid	8260C	158571
MB 410-159582/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159582/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159582/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 159657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-12	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-159657/6	Method Blank	Total/NA	Water	8260C/UST	

GC/MS VOA (Continued)

Analysis Batch: 159657 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-159657/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-159657/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Analysis Batch: 160023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-7 - RA	UNK-ST-N (3)	Total/NA	Solid	8260C	158572
MB 410-160023/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-160023/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160023/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 158764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	3546	
410-50503-2	7551-P4 (3)	Total/NA	Solid	3546	
410-50503-3 - DL	Pipe 86 (2)	Total/NA	Solid	3546	
410-50503-3	Pipe 86 (2)	Total/NA	Solid	3546	
410-50503-5	Pipe 84 (2)	Total/NA	Solid	3546	
410-50503-5 - DL	Pipe 84 (2)	Total/NA	Solid	3546	
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	3546	
410-50503-7 - DL	UNK-ST-N (3)	Total/NA	Solid	3546	
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	3546	
410-50503-8	Pipe 71 (2)	Total/NA	Solid	3546	
MB 410-158764/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158764/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-50503-8 MS	Pipe 71 (2)	Total/NA	Solid	3546	
410-50503-8 MSD	Pipe 71 (2)	Total/NA	Solid	3546	

Analysis Batch: 158947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	8270D	158764
410-50503-2	7551-P4 (3)	Total/NA	Solid	8270D	158764
410-50503-3	Pipe 86 (2)	Total/NA	Solid	8270D	158764
410-50503-5	Pipe 84 (2)	Total/NA	Solid	8270D	158764
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	8270D	158764
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	8270D	158764
410-50503-8	Pipe 71 (2)	Total/NA	Solid	8270D	158764
MB 410-158764/1-A	Method Blank	Total/NA	Solid	8270D	158764
LCS 410-158764/2-A	Lab Control Sample	Total/NA	Solid	8270D	158764
410-50503-8 MS	Pipe 71 (2)	Total/NA	Solid	8270D	158764
410-50503-8 MSD	Pipe 71 (2)	Total/NA	Solid	8270D	158764

Prep Batch: 158969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-9	Pipe 72 (2)	Total/NA	Solid	3546	
410-50503-10	Pipe 70 (2)	Total/NA	Solid	3546	
410-50503-11	Dup-4	Total/NA	Solid	3546	
MB 410-158969/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158969/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC/MS Semi VOA

Analysis Batch: 159422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-3 - DL	Pipe 86 (2)	Total/NA	Solid	8270D	158764
410-50503-5 - DL	Pipe 84 (2)	Total/NA	Solid	8270D	158764
410-50503-7 - DL	UNK-ST-N (3)	Total/NA	Solid	8270D	158764

Analysis Batch: 159515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-158969/1-A	Method Blank	Total/NA	Solid	8270D	158969
LCS 410-158969/2-A	Lab Control Sample	Total/NA	Solid	8270D	158969

Analysis Batch: 159578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-9	Pipe 72 (2)	Total/NA	Solid	8270D	158969
410-50503-10	Pipe 70 (2)	Total/NA	Solid	8270D	158969

Prep Batch: 159833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-4 - DL	Pipe 74 (2)	Total/NA	Solid	3546	
410-50503-4	Pipe 74 (2)	Total/NA	Solid	3546	
MB 410-159833/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-159833/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 159966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-11	Dup-4	Total/NA	Solid	8270D	158969

Analysis Batch: 160160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-4	Pipe 74 (2)	Total/NA	Solid	8270D	159833
MB 410-159833/1-A	Method Blank	Total/NA	Solid	8270D	159833
LCS 410-159833/2-A	Lab Control Sample	Total/NA	Solid	8270D	159833

Analysis Batch: 160448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-4 - DL	Pipe 74 (2)	Total/NA	Solid	8270D	159833

Metals

Prep Batch: 158390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	3050B	
410-50503-2	7551-P4 (3)	Total/NA	Solid	3050B	
410-50503-3	Pipe 86 (2)	Total/NA	Solid	3050B	
410-50503-4	Pipe 74 (2)	Total/NA	Solid	3050B	
410-50503-5	Pipe 84 (2)	Total/NA	Solid	3050B	
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	3050B	
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	3050B	
410-50503-8	Pipe 71 (2)	Total/NA	Solid	3050B	
410-50503-9	Pipe 72 (2)	Total/NA	Solid	3050B	
410-50503-10	Pipe 70 (2)	Total/NA	Solid	3050B	
410-50503-11	Dup-4	Total/NA	Solid	3050B	
MB 410-158390/1-A	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 158390 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-158390/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 410-158390/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

Analysis Batch: 159808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	6010C	158390
410-50503-2	7551-P4 (3)	Total/NA	Solid	6010C	158390
410-50503-3	Pipe 86 (2)	Total/NA	Solid	6010C	158390
410-50503-4	Pipe 74 (2)	Total/NA	Solid	6010C	158390
410-50503-5	Pipe 84 (2)	Total/NA	Solid	6010C	158390
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	6010C	158390
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	6010C	158390
410-50503-8	Pipe 71 (2)	Total/NA	Solid	6010C	158390
410-50503-9	Pipe 72 (2)	Total/NA	Solid	6010C	158390
410-50503-10	Pipe 70 (2)	Total/NA	Solid	6010C	158390
410-50503-11	Dup-4	Total/NA	Solid	6010C	158390
MB 410-158390/1-A	Method Blank	Total/NA	Solid	6010C	158390
LCS 410-158390/2-A	Lab Control Sample	Total/NA	Solid	6010C	158390
LCSD 410-158390/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	158390

General Chemistry

Analysis Batch: 158422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	Moisture	
410-50503-2	7551-P4 (3)	Total/NA	Solid	Moisture	
410-50503-3	Pipe 86 (2)	Total/NA	Solid	Moisture	
410-50503-4	Pipe 74 (2)	Total/NA	Solid	Moisture	
410-50503-5	Pipe 84 (2)	Total/NA	Solid	Moisture	
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	Moisture	
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	Moisture	
410-50503-8	Pipe 71 (2)	Total/NA	Solid	Moisture	
410-50503-9	Pipe 72 (2)	Total/NA	Solid	Moisture	
410-50503-10	Pipe 70 (2)	Total/NA	Solid	Moisture	
410-50503-11	Dup-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Client Sample ID: Pipe 85 (2)

Lab Sample ID: 410-50503-1
Matrix: Solid
Date Collected: 08/06/21 12:45
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 85 (2)

Lab Sample ID: 410-50503-1
Matrix: Solid
Date Collected: 08/06/21 12:45
Date Received: 08/09/21 16:02
Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 09:23	JJT8	ELLE
Total/NA	Analysis	8260C		100	159518	08/12/21 14:49	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 13:25	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/09/21 20:35	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:14	WJM9	ELLE

Client Sample ID: 7551-P4 (3)

Lab Sample ID: 410-50503-2
Matrix: Solid
Date Collected: 08/06/21 12:50
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: 7551-P4 (3)

Lab Sample ID: 410-50503-2
Matrix: Solid
Date Collected: 08/06/21 12:50
Date Received: 08/09/21 16:02
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158571	08/10/21 09:23	JJT8	ELLE
Total/NA	Analysis	8260C		1	159083	08/11/21 16:48	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 13:48	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/09/21 20:35	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:24	WJM9	ELLE

Client Sample ID: Pipe 86 (2)

Lab Sample ID: 410-50503-3
Matrix: Solid
Date Collected: 08/06/21 13:00
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 86 (2)

Lab Sample ID: 410-50503-3

Date Collected: 08/06/21 13:00

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 71.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 09:23	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 15:10	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 14:11	ULM3	ELLE
Total/NA	Prep	3546	DL		158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D	DL	10	159422	08/11/21 23:35	UWHS	ELLE
Total/NA	Prep	3050B			158390	08/09/21 20:35	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:27	WJM9	ELLE

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50503-4

Date Collected: 08/06/21 13:15

Matrix: Solid

Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50503-4

Date Collected: 08/06/21 13:15

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 09:23	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 15:31	USEJ	ELLE
Total/NA	Prep	3546			159833	08/12/21 18:24	QQ3P	ELLE
Total/NA	Analysis	8270D		1	160160	08/13/21 14:27	ULM3	ELLE
Total/NA	Prep	3546	DL		159833	08/12/21 18:24	QQ3P	ELLE
Total/NA	Analysis	8270D	DL	5	160448	08/13/21 23:44	SJ89	ELLE
Total/NA	Prep	3050B			158390	08/09/21 20:35	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:37	WJM9	ELLE

Client Sample ID: Pipe 84 (2)

Lab Sample ID: 410-50503-5

Date Collected: 08/06/21 13:25

Matrix: Solid

Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 84 (2)

Lab Sample ID: 410-50503-5

Date Collected: 08/06/21 13:25

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158571	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		1	159083	08/11/21 17:11	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 14:56	ULM3	ELLE

Client Sample ID: Pipe 84 (2)

Lab Sample ID: 410-50503-5
Date Collected: 08/06/21 13:25
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D	DL	10	159422	08/11/21 23:58	UWHS	ELLE
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:40	WJM9	ELLE

Client Sample ID: UNK-ST-S (3)

Lab Sample ID: 410-50503-6
Date Collected: 08/06/21 13:45
Matrix: Solid
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: UNK-ST-S (3)

Lab Sample ID: 410-50503-6
Date Collected: 08/06/21 13:45
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 63.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158571	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		1	159083	08/11/21 16:02	USEJ	ELLE
Total/NA	Prep	5035	RA		158571	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	159582	08/12/21 13:53	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 15:19	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:43	WJM9	ELLE

Client Sample ID: UNK-ST-N (3)

Lab Sample ID: 410-50503-7
Date Collected: 08/06/21 14:00
Matrix: Solid
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: UNK-ST-N (3)

Lab Sample ID: 410-50503-7
Date Collected: 08/06/21 14:00
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 15:51	USEJ	ELLE
Total/NA	Prep	5035	RA		158572	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C	RA	50	160023	08/13/21 11:20	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 15:42	ULM3	ELLE
Total/NA	Prep	3546	DL		158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D	DL	10	159422	08/12/21 00:20	UWHS	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Client Sample ID: UNK-ST-N (3)

Lab Sample ID: 410-50503-7

Date Collected: 08/06/21 14:00
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:46	WJM9	ELLE

Client Sample ID: Pipe 71 (2)

Lab Sample ID: 410-50503-8

Date Collected: 08/09/21 11:30
Matrix: Solid
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 71 (2)

Lab Sample ID: 410-50503-8

Date Collected: 08/09/21 11:30
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 62.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 16:12	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 16:04	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:50	WJM9	ELLE

Client Sample ID: Pipe 72 (2)

Lab Sample ID: 410-50503-9

Date Collected: 08/09/21 11:55
Matrix: Solid
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 72 (2)

Lab Sample ID: 410-50503-9

Date Collected: 08/09/21 11:55
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 16:33	USEJ	ELLE
Total/NA	Prep	3546			158969	08/11/21 09:56	A2VL	ELLE
Total/NA	Analysis	8270D		1	159578	08/12/21 19:55	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:56	WJM9	ELLE

Client Sample ID: Pipe 70 (2)

Lab Sample ID: 410-50503-10

Date Collected: 08/09/21 12:15

Matrix: Solid

Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 70 (2)

Lab Sample ID: 410-50503-10

Date Collected: 08/09/21 12:15

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 62.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 16:54	USEJ	ELLE
Total/NA	Prep	3546			158969	08/11/21 09:56	A2VL	ELLE
Total/NA	Analysis	8270D		1	159578	08/12/21 20:18	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:59	WJM9	ELLE

Client Sample ID: Dup-4

Lab Sample ID: 410-50503-11

Date Collected: 08/09/21 00:00

Matrix: Solid

Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Dup-4

Lab Sample ID: 410-50503-11

Date Collected: 08/09/21 00:00

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 68.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 17:14	USEJ	ELLE
Total/NA	Prep	3546			158969	08/11/21 09:56	A2VL	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 00:23	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:53	WJM9	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-50503-12

Date Collected: 08/09/21 00:00

Matrix: Water

Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	159657	08/12/21 15:18	UKAD	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-50503-1	Pipe 85 (2)	Solid	08/06/21 12:45	08/09/21 16:02
410-50503-2	7551-P4 (3)	Solid	08/06/21 12:50	08/09/21 16:02
410-50503-3	Pipe 86 (2)	Solid	08/06/21 13:00	08/09/21 16:02
410-50503-4	Pipe 74 (2)	Solid	08/06/21 13:15	08/09/21 16:02
410-50503-5	Pipe 84 (2)	Solid	08/06/21 13:25	08/09/21 16:02
410-50503-6	UNK-ST-S (3)	Solid	08/06/21 13:45	08/09/21 16:02
410-50503-7	UNK-ST-N (3)	Solid	08/06/21 14:00	08/09/21 16:02
410-50503-8	Pipe 71 (2)	Solid	08/09/21 11:30	08/09/21 16:02
410-50503-9	Pipe 72 (2)	Solid	08/09/21 11:55	08/09/21 16:02
410-50503-10	Pipe 70 (2)	Solid	08/09/21 12:15	08/09/21 16:02
410-50503-11	Dup-4	Solid	08/09/21 00:00	08/09/21 16:02
410-50503-12	Trip Blank	Water	08/09/21 00:00	08/09/21 16:02

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-50503 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: IA/SP/ZS/DH	Lab PM: Carter, Amek A	COC No: 410-30583-9562 2
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 2 of 5
Company: Stantec Consulting Corp.	PWSID:	Analysis Requested	Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:		Preservation Codes:
City: West Chester	TAT Requested (days): 5 day		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No		
Phone:	PO #: Purchase Order Requested		
Email: mark.schaeffer@stantec.com	WO #:		Other:
Project Name: PBF Logistics	Project #: 41007459		
Site: 51st Street Terminal	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			F	N	A		
Pipe 85 (2)	8/6/21	1215	G	Solid		X	X	X		
7551 - P4 (3)	8/6/21	1250	G	Solid		X	X	X		
Pipe 86 (2)	8/6/21	1300	G	Solid		X	X	X		
Pipe 74 (2)	8/6/21	1315	G	Solid		X	X	X		
Pipe 84 (2)	8/6/21	1325	G	Solid		X	X	X		
UNK-ST-S (3)	8/6/21	1345	G	Solid		X	X	X		
UNK-ST-N (3)	8/6/21	1400	G	Solid		X	X	X		
Pipe 71 (2)	8/9/21	1130	G	Solid		X	X	X		
Pipe 72 (2)	8/9/21	1155	G	Solid		X	X	X (R)		
Pipe 70 (2)	8/9/21	1215	G	Solid		X	X			
DUP-4	8/9/21	—	G	Solid		X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/9/21 1230	Stantec		8/9/21 1230	
2		8/9/21 1536				
3					8/9/21 1612	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5

Ver 06/08/2021

8/16/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: IA/SP/DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-30583-9562 3
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran Carter@eurofinset.com	State of Origin: PA	Page: Page 3 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	F	N	A	X	
Trip Blank	8/9/21	—	G	Water					X		
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/9/21 1230	Stantec		8/9/21 1230	
2		8/9/21 1536				
3					8/9/21 18:02	

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-50503-1

Login Number: 50503

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Jeremiah, Cory T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-50672-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/16/2021 3:43:25 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

Review your project results through TotalAccess

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
8/16/2021 3:43:25 PM

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Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-50672-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-50672-1

Receipt
The samples were received on 8/10/2021 4:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6°C and 4.1°C

Receipt Exceptions
The matrix for the following samples did not match the information listed on the Chain-of-Custody (COC): Pipe 67 (2) (410-50672-8), DUP-5 (410-50672-9), Pipe 19 (2) (410-50672-10) and 941-P2 (2) (410-50672-11). The samples matrix is solid, while the COC lists water.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 941-P2 (2) (410-50672-11). The container labels list 941-P2 (3), while the COC lists 941-P2 (2).

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: Pipe 69 (2) (410-50672-1) and Pipe 22 (2) (410-50672-19). Elevated reporting limits (RLs) are provided.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: Pipe 58 (2) (410-50672-4). The sample(s) was re-analyzed and ISTD response was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: Pipe 69 (2) — Lab Sample ID: 410-50672-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	590	J	770	77	ug/Kg	50	☼	8260C	Total/NA
Toluene	210	J	770	93	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	350	J	1500	220	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	650	J	770	77	ug/Kg	50	☼	8260C	Total/NA
Anthracene	44		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	150		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	54		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	95		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	40		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	150		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	13	J	34	6.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	510		34	8.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	540		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Lead	89		2.6	1.0	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 68 (2) — Lab Sample ID: 410-50672-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	5.5	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.9	J	7.3	0.88	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	6.4	J	15	2.0	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.7	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	5.4	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
Anthracene	120		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	360		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	310		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	370		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	210		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	350		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	72		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	460		28	6.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	620		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Lead	240		2.2	0.87	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 57 (2) — Lab Sample ID: 410-50672-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	24	J	31	6.3	ug/Kg	1	☼	8270D	Total/NA
Lead	16		2.4	0.96	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 58 (2) — Lab Sample ID: 410-50672-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	8.9	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5.7	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.7	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	31		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	53		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	16	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	12		1.8	0.72	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: Pipe 59 (2) — Lab Sample ID: 410-50672-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	7.9	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	7.1	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.1	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	9.1	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Lead	25		2.7	1.1	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 56 (2) — Lab Sample ID: 410-50672-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	8.1	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	27		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	32		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	23		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	28		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	29		20	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	40		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	160	F2	1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 54 (2) — Lab Sample ID: 410-50672-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	5.2	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	9.6	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.3	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	10	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	15	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	38		21	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	41		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Lead	35		1.9	0.75	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 67 (2) — Lab Sample ID: 410-50672-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.9	J	7.9	0.94	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.4	J	7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
Anthracene	18	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	36		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	46		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	68		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	58		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	52		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	14	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	120		21	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	63		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	93		1.6	0.66	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP-5 — Lab Sample ID: 410-50672-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	2.0	J	9.6	1.1	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.4	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Toluene	18		9.6	1.1	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-5 (Continued)

Lab Sample ID: 410-50672-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	9.2	J	19	2.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	17		9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2.2	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Anthracene	23		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	52		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	75		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	100		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	87		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	63		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	47		23	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	65		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	78		1.8	0.70	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 19 (2)

Lab Sample ID: 410-50672-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	2.7	J	8.9	1.1	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	4.0	J	8.9	0.89	ug/Kg	1	☼	8260C	Total/NA
Toluene	31		8.9	1.1	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	28		18	2.5	ug/Kg	1	☼	8260C	Total/NA
Benzene	27		8.9	0.89	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	5.3	J	8.9	0.89	ug/Kg	1	☼	8260C	Total/NA
Anthracene	10	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	5.1	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.9	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	6.3	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	7.3	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	5.2	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	58		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	14	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	260		2.0	0.79	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 941-P2 (2)

Lab Sample ID: 410-50672-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	2.7	J	12	1.4	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	3.2	J	12	1.2	ug/Kg	1	☼	8260C	Total/NA
Toluene	40		12	1.4	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	21	J	23	3.3	ug/Kg	1	☼	8260C	Total/NA
Benzene	28		12	1.2	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	5.8	J	12	1.2	ug/Kg	1	☼	8260C	Total/NA
Anthracene	37		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	81		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	120		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	170		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	130		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	100		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	7.4	J	25	5.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	54		25	6.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	97		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Lead	130		2.2	0.89	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: Pipe 18 (2) — Lab Sample ID: 410-50672-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.3	J	10	1.2	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.8	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Benzo[b]fluoranthene	5.7	J	22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4.5	J	22	4.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	22	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	29		22	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	9.6	J	22	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	120		1.9	0.76	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 23 (2) — Lab Sample ID: 410-50672-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	3.0	J	9.9	1.2	ug/Kg	1	☼	8260C	Total/NA
Toluene	25		9.9	1.2	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	9.5	J	20	2.8	ug/Kg	1	☼	8260C	Total/NA
Benzene	14		9.9	0.99	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.4	J	9.9	0.99	ug/Kg	1	☼	8260C	Total/NA
Anthracene	4.8	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	9.0	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	7.0	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	29		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	20	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	25		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	24		21	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	6.4	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	130		1.9	0.75	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 24 (2) — Lab Sample ID: 410-50672-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	3.1	J	8.5	1.0	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.9	J	8.5	0.85	ug/Kg	1	☼	8260C	Total/NA
Toluene	20		8.5	1.0	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	13	J	17	2.4	ug/Kg	1	☼	8260C	Total/NA
Benzene	8.3	J	8.5	0.85	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	3.3	J	8.5	0.85	ug/Kg	1	☼	8260C	Total/NA
Anthracene	9.9	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	5.3	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	8.5	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	14	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	40		23	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	19	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	210		1.8	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 25 (2) — Lab Sample ID: 410-50672-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	1.6	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Toluene	140		10	1.2	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	24		20	2.8	ug/Kg	1	☼	8260C	Total/NA
Methyl tertiary butyl ether	2.2	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Benzene	32		10	1.0	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 25 (2) (Continued)

Lab Sample ID: 410-50672-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3.7	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Benzo[g,h,i]perylene	8.4	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	21	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	21	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	150		24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	26		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Lead	60		2.0	0.79	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50672-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.4	J	8.2	0.98	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.1	J	8.2	0.82	ug/Kg	1	☼	8260C	Total/NA
Anthracene	19	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	29		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	21		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	39		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	18	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	38		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	76		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	57		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	120		1.8	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 20 (2)

Lab Sample ID: 410-50672-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	4.0	J	9.3	1.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.7	J	9.3	0.93	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	9.1	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5.7	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	7.1	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	11	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	10	J	22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	9.8	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	66		2.0	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 21 (2)

Lab Sample ID: 410-50672-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	23	J	24	5.7	ug/Kg	1	☼	8270D	Total/NA
Lead	28		2.0	0.79	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 22 (2)

Lab Sample ID: 410-50672-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	51	J	480	48	ug/Kg	50	☼	8260C	Total/NA
Toluene	61	J	480	58	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	170	J	970	140	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	99	J	480	48	ug/Kg	50	☼	8260C	Total/NA
Anthracene	22		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	35		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	33		22	4.3	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 22 (2) (Continued)

Lab Sample ID: 410-50672-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	41		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	38		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	52		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	11	J	22	4.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	50		22	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	42		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Lead	1100		1.7	0.70	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-50672-20

No Detections.

Client Sample ID: Pipe 69 (2)

Lab Sample ID: 410-50672-1

Date Collected: 08/09/21 13:05

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 48.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		770	62	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
1,2-Dichloroethane	ND		770	93	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
1,3,5-Trimethylbenzene	**590**	**J**	770	77	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
Toluene	**210**	**J**	770	93	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
Xylenes, Total	**350**	**J**	1500	220	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
Methyl tertiary butyl ether	ND		770	77	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
Benzene	ND		770	77	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
Naphthalene	ND		770	310	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
1,2,4-Trimethylbenzene	**650**	**J**	770	77	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
Isopropylbenzene	ND		770	62	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
1,2-Dibromoethane	ND		770	62	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*	*08/11/21 11:05*	*08/13/21 15:49*	*50*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/11/21 11:05*	*08/13/21 15:49*	*50*
Dibromofluoromethane (Surr)	*16*	*S1-*	*50 - 141*	*08/11/21 11:05*	*08/13/21 15:49*	*50*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/11/21 11:05*	*08/13/21 15:49*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**44**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Benzo[a]anthracene	**150**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Benzo[a]pyrene	**54**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Benzo[b]fluoranthene	**95**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Benzo[g,h,i]perylene	**40**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Chrysene	**150**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Fluorene	**13**	**J**	34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Phenanthrene	**510**		34	8.0	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Pyrene	**540**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*39 - 100*	*08/12/21 10:21*	*08/13/21 01:08*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/12/21 10:21*	*08/13/21 01:08*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*08/12/21 10:21*	*08/13/21 01:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**89**		2.6	1.0	mg/Kg	☼	08/11/21 20:43	08/13/21 21:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**51.1**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 68 (2)

Lab Sample ID: 410-50672-2

Date Collected: 08/09/21 13:15

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 58.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.3	0.59	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
1,2-Dichloroethane	ND		7.3	0.88	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1

Client Sample ID: Pipe 68 (2)

Lab Sample ID: 410-50672-2

Date Collected: 08/09/21 13:15

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 58.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	5.5	J	7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
Toluene	2.9	J	7.3	0.88	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
Xylenes, Total	6.4	J	15	2.0	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
Methyl tertiary butyl ether	ND		7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
Benzene	1.7	J	7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
Naphthalene	ND		7.3	2.9	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
1,2,4-Trimethylbenzene	5.4	J	7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
Isopropylbenzene	ND		7.3	0.59	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
1,2-Dibromoethane	ND		7.3	0.59	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/11/21 12:01*	*08/12/21 16:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*50 - 131*	*08/11/21 12:01*	*08/12/21 16:12*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/11/21 12:01*	*08/12/21 16:12*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*08/11/21 12:01*	*08/12/21 16:12*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	120		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Benzo[a]anthracene	360		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Benzo[a]pyrene	310		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Benzo[b]fluoranthene	370		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Benzo[g,h,i]perylene	210		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Chrysene	350		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Fluorene	72		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Phenanthrene	460		28	6.8	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Pyrene	620		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*39 - 100*	*08/12/21 10:21*	*08/13/21 01:30*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*08/12/21 10:21*	*08/13/21 01:30*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/12/21 10:21*	*08/13/21 01:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	240		2.2	0.87	mg/Kg	☼	08/11/21 20:43	08/13/21 21:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	41.5		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 57 (2)

Lab Sample ID: 410-50672-3

Date Collected: 08/09/21 13:35

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 53.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		11	0.91	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
1,2-Dichloroethane	ND		11	1.4	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
1,3,5-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
Toluene	ND		11	1.4	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1

Client Sample ID: Pipe 57 (2)

Lab Sample ID: 410-50672-3

Date Collected: 08/09/21 13:35
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 53.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		23	3.2	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
Methyl tertiary butyl ether	ND		11	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
Benzene	ND		11	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
Naphthalene	ND		11	4.5	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
1,2,4-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
Isopropylbenzene	ND		11	0.91	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
1,2-Dibromoethane	ND		11	0.91	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*	*08/11/21 12:01*	*08/12/21 17:21*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*08/11/21 12:01*	*08/12/21 17:21*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/11/21 12:01*	*08/12/21 17:21*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*08/11/21 12:01*	*08/12/21 17:21*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Benzo[a]anthracene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Benzo[a]pyrene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Benzo[b]fluoranthene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Benzo[g,h,i]perylene	**24**	**J**	31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Chrysene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Fluorene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Phenanthrene	ND		31	7.5	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Pyrene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/12/21 10:21*	*08/13/21 01:53*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/12/21 10:21*	*08/13/21 01:53*	*1*
p-Terphenyl-d14 (Surr)	*91*		*45 - 108*	*08/12/21 10:21*	*08/13/21 01:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**16**		2.4	0.96	mg/Kg	☼	08/11/21 20:43	08/13/21 22:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**46.9**		1.0	1.0	%			08/11/21 14:37	1

Client Sample ID: Pipe 58 (2)

Lab Sample ID: 410-50672-4

Date Collected: 08/09/21 13:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 75.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.83	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
1,2-Dichloroethane	ND		10	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
1,3,5-Trimethylbenzene	ND	*3	10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
Toluene	ND		10	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
Xylenes, Total	ND		21	2.9	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
Methyl tertiary butyl ether	ND		10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1

Client Sample ID: Pipe 58 (2)

Lab Sample ID: 410-50672-4

Date Collected: 08/09/21 13:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 75.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
Naphthalene	ND	*3	10	4.1	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
1,2,4-Trimethylbenzene	ND	*3	10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
Isopropylbenzene	ND		10	0.83	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
1,2-Dibromoethane	ND		10	0.83	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*08/11/21 12:01*	*08/12/21 17:45*	*1*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/11/21 12:01*	*08/12/21 17:45*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/11/21 12:01*	*08/12/21 17:45*	*1*
Toluene-d8 (Surr)	*105*		*52 - 141*	*08/11/21 12:01*	*08/12/21 17:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Benzo[a]anthracene	**8.9**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Benzo[a]pyrene	**5.7**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Benzo[b]fluoranthene	**14**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Benzo[g,h,i]perylene	**8.7**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Chrysene	**31**		22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Fluorene	ND		22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Phenanthrene	**53**		22	5.3	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Pyrene	**16**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/12/21 10:21*	*08/13/21 03:00*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/12/21 10:21*	*08/13/21 03:00*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*	*08/12/21 10:21*	*08/13/21 03:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		1.8	0.72	mg/Kg	☼	08/11/21 20:43	08/13/21 22:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24.7**		1.0	1.0	%			08/11/21 14:37	1

Client Sample ID: Pipe 59 (2)

Lab Sample ID: 410-50672-5

Date Collected: 08/09/21 14:05
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 55.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.5	0.76	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
1,2-Dichloroethane	ND		9.5	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
1,3,5-Trimethylbenzene	ND		9.5	0.95	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
Toluene	ND		9.5	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
Xylenes, Total	ND		19	2.7	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
Methyl tertiary butyl ether	ND		9.5	0.95	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
Benzene	ND		9.5	0.95	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
Naphthalene	ND		9.5	3.8	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1

Client Sample ID: Pipe 59 (2)

Lab Sample ID: 410-50672-5

Date Collected: 08/09/21 14:05
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 55.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		9.5	0.95	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
Isopropylbenzene	ND		9.5	0.76	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
1,2-Dibromoethane	ND		9.5	0.76	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*54 - 135*	*08/11/21 12:01*	*08/12/21 18:08*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/11/21 12:01*	*08/12/21 18:08*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/11/21 12:01*	*08/12/21 18:08*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*08/11/21 12:01*	*08/12/21 18:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**7.9**	**J**	30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Benzo[a]anthracene	**7.1**	**J**	30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Benzo[a]pyrene	**6.1**	**J**	30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Benzo[b]fluoranthene	ND		30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Benzo[g,h,i]perylene	**9.1**	**J**	30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Chrysene	ND		30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Fluorene	ND		30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Phenanthrene	ND		30	7.2	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Pyrene	ND		30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/12/21 10:21*	*08/13/21 03:23*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/12/21 10:21*	*08/13/21 03:23*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*08/12/21 10:21*	*08/13/21 03:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**25**		2.7	1.1	mg/Kg	☼	08/11/21 20:43	08/13/21 21:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**44.2**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 56 (2)

Lab Sample ID: 410-50672-6

Date Collected: 08/09/21 14:20
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 83.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.9	0.71	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
1,2-Dichloroethane	ND		8.9	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
1,3,5-Trimethylbenzene	ND		8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
Toluene	ND		8.9	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
Xylenes, Total	ND		18	2.5	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
Methyl tertiary butyl ether	ND		8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
Benzene	ND		8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
Naphthalene	ND		8.9	3.5	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
1,2,4-Trimethylbenzene	ND		8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
Isopropylbenzene	ND		8.9	0.71	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1

Client Sample ID: Pipe 56 (2)

Lab Sample ID: 410-50672-6

Date Collected: 08/09/21 14:20
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 83.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		8.9	0.71	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/11/21 12:01*	*08/12/21 18:31*	*1*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*	*08/11/21 12:01*	*08/12/21 18:31*	*1*
Dibromofluoromethane (Surr)	*115*		*50 - 141*	*08/11/21 12:01*	*08/12/21 18:31*	*1*
Toluene-d8 (Surr)	*105*		*52 - 141*	*08/11/21 12:01*	*08/12/21 18:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**8.1**	**J**	20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Benzo[a]anthracene	**26**		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Benzo[a]pyrene	**27**		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Benzo[b]fluoranthene	**32**		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Benzo[g,h,i]perylene	**23**		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Chrysene	**28**		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Fluorene	ND		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Phenanthrene	**29**		20	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Pyrene	**40**		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/12/21 10:21*	*08/13/21 03:45*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/12/21 10:21*	*08/13/21 03:45*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/12/21 10:21*	*08/13/21 03:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**160**	**F2**	1.7	0.69	mg/Kg	☼	08/11/21 20:43	08/13/21 21:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.1**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 54 (2)

Lab Sample ID: 410-50672-7

Date Collected: 08/09/21 14:30
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 77.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.3	0.59	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
1,2-Dichloroethane	ND		7.3	0.88	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
1,3,5-Trimethylbenzene	ND		7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
Toluene	ND		7.3	0.88	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
Xylenes, Total	ND		15	2.1	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
Methyl tertiary butyl ether	ND		7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
Benzene	ND		7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
Naphthalene	ND		7.3	2.9	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
1,2,4-Trimethylbenzene	ND		7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
Isopropylbenzene	ND		7.3	0.59	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
1,2-Dibromoethane	ND		7.3	0.59	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1

Client Sample ID: Pipe 54 (2)

Lab Sample ID: 410-50672-7

Date Collected: 08/09/21 14:30
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 77.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/11/21 12:01*	*08/12/21 18:54*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/11/21 12:01*	*08/12/21 18:54*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*08/11/21 12:01*	*08/12/21 18:54*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/11/21 12:01*	*08/12/21 18:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**5.2**	**J**	21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Benzo[a]anthracene	**9.6**	**J**	21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Benzo[a]pyrene	**4.3**	**J**	21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Benzo[b]fluoranthene	**10**	**J**	21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Benzo[g,h,i]perylene	ND		21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Chrysene	**15**	**J**	21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Fluorene	ND		21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Phenanthrene	**38**		21	5.2	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Pyrene	**41**		21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/12/21 10:21*	*08/13/21 04:08*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/12/21 10:21*	*08/13/21 04:08*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/12/21 10:21*	*08/13/21 04:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**35**		1.9	0.75	mg/Kg	☼	08/11/21 20:43	08/13/21 21:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.5**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 67 (2)

Lab Sample ID: 410-50672-8

Date Collected: 08/09/21 14:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 80.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.9	0.63	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
1,2-Dichloroethane	ND		7.9	0.94	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
1,3,5-Trimethylbenzene	ND		7.9	0.79	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
Toluene	**1.9**	**J**	7.9	0.94	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
Xylenes, Total	ND		16	2.2	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
Methyl tertiary butyl ether	ND		7.9	0.79	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
Benzene	**2.4**	**J**	7.9	0.79	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
Naphthalene	ND		7.9	3.1	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
1,2,4-Trimethylbenzene	ND		7.9	0.79	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
Isopropylbenzene	ND		7.9	0.63	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
1,2-Dibromoethane	ND		7.9	0.63	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/11/21 12:01*	*08/12/21 19:17*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/11/21 12:01*	*08/12/21 19:17*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*08/11/21 12:01*	*08/12/21 19:17*	*1*

Client Sample ID: Pipe 67 (2)

Lab Sample ID: 410-50672-8

Date Collected: 08/09/21 14:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 80.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/11/21 12:01*	*08/12/21 19:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**18**	**J**	21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Benzo[a]anthracene	**36**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Benzo[a]pyrene	**46**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Benzo[b]fluoranthene	**68**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Benzo[g,h,i]perylene	**58**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Chrysene	**52**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Fluorene	**14**	**J**	21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Phenanthrene	**120**		21	4.9	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Pyrene	**63**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/12/21 10:21*	*08/13/21 04:30*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/12/21 10:21*	*08/13/21 04:30*	*1*
p-Terphenyl-d14 (Surr)	*81*		*45 - 108*	*08/12/21 10:21*	*08/13/21 04:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**93**		1.6	0.66	mg/Kg	☼	08/11/21 20:43	08/13/21 22:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.0**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: DUP-5

Lab Sample ID: 410-50672-9

Date Collected: 08/10/21 00:00
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 72.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	0.77	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
1,2-Dichloroethane	**2.0**	**J**	9.6	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
1,3,5-Trimethylbenzene	**1.4**	**J**	9.6	0.96	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
Toluene	**18**		9.6	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
Xylenes, Total	**9.2**	**J**	19	2.7	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
Methyl tertiary butyl ether	ND		9.6	0.96	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
Benzene	**17**		9.6	0.96	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
Naphthalene	ND		9.6	3.8	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
1,2,4-Trimethylbenzene	**2.2**	**J**	9.6	0.96	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
Isopropylbenzene	ND		9.6	0.77	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
1,2-Dibromoethane	ND		9.6	0.77	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/11/21 12:01*	*08/12/21 14:16*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/11/21 12:01*	*08/12/21 14:16*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*08/11/21 12:01*	*08/12/21 14:16*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/11/21 12:01*	*08/12/21 14:16*	*1*

Client Sample ID: DUP-5

Lab Sample ID: 410-50672-9

Date Collected: 08/10/21 00:00
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 72.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	23		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Benzo[a]anthracene	52		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Benzo[a]pyrene	75		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Benzo[b]fluoranthene	100		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Benzo[g,h,i]perylene	87		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Chrysene	63		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Fluorene	ND		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Phenanthrene	47		23	5.5	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Pyrene	65		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/12/21 10:21*	*08/13/21 04:53*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/12/21 10:21*	*08/13/21 04:53*	*1*
p-Terphenyl-d14 (Surr)	*81*		*45 - 108*	*08/12/21 10:21*	*08/13/21 04:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	78		1.8	0.70	mg/Kg	☼	08/11/21 20:43	08/13/21 22:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.4		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 19 (2)

Lab Sample ID: 410-50672-10

Date Collected: 08/10/21 09:05
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 75.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.9	0.71	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
1,2-Dichloroethane	2.7	J	8.9	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
1,3,5-Trimethylbenzene	4.0	J	8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
Toluene	31		8.9	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
Xylenes, Total	28		18	2.5	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
Methyl tertiary butyl ether	ND		8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
Benzene	27		8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
Naphthalene	ND		8.9	3.6	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
1,2,4-Trimethylbenzene	5.3	J	8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
Isopropylbenzene	ND		8.9	0.71	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
1,2-Dibromoethane	ND		8.9	0.71	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*08/11/21 12:01*	*08/12/21 19:40*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/11/21 12:01*	*08/12/21 19:40*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/11/21 12:01*	*08/12/21 19:40*	*1*
Toluene-d8 (Surr)	*101*		*52 - 141*	*08/11/21 12:01*	*08/12/21 19:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	10	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Benzo[a]anthracene	5.1	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1

Client Sample ID: Pipe 19 (2)

Lab Sample ID: 410-50672-10

Date Collected: 08/10/21 09:05
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 75.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	4.9	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Benzo[b]fluoranthene	6.3	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Benzo[g,h,i]perylene	7.3	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Chrysene	5.2	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Fluorene	ND		22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Phenanthrene	58		22	5.3	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Pyrene	14	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/12/21 10:21*	*08/13/21 05:15*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*08/12/21 10:21*	*08/13/21 05:15*	*1*
p-Terphenyl-d14 (Surr)	*81*		*45 - 108*	*08/12/21 10:21*	*08/13/21 05:15*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	260		2.0	0.79	mg/Kg	☼	08/11/21 20:43	08/13/21 21:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.6		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: 941-P2 (2)

Lab Sample ID: 410-50672-11

Date Collected: 08/10/21 09:20
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 66.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		12	0.93	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
1,2-Dichloroethane	2.7	J	12	1.4	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
1,3,5-Trimethylbenzene	3.2	J	12	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
Toluene	40		12	1.4	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
Xylenes, Total	21	J	23	3.3	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
Methyl tertiary butyl ether	ND		12	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
Benzene	28		12	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
Naphthalene	ND		12	4.7	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
1,2,4-Trimethylbenzene	5.8	J	12	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
Isopropylbenzene	ND		12	0.93	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
1,2-Dibromoethane	ND		12	0.93	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*54 - 135*	*08/11/21 12:01*	*08/12/21 14:40*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/11/21 12:01*	*08/12/21 14:40*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*08/11/21 12:01*	*08/12/21 14:40*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/11/21 12:01*	*08/12/21 14:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	37		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Benzo[a]anthracene	81		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Benzo[a]pyrene	120		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Benzo[b]fluoranthene	170		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1

Client Sample ID: 941-P2 (2)

Lab Sample ID: 410-50672-11

Date Collected: 08/10/21 09:20
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 66.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	130		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Chrysene	100		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Fluorene	7.4	J	25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Phenanthrene	54		25	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Pyrene	97		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/12/21 10:21*	*08/13/21 05:38*	*1*
Nitrobenzene-d5 (Surr)	*70*		*32 - 97*	*08/12/21 10:21*	*08/13/21 05:38*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/12/21 10:21*	*08/13/21 05:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	130		2.2	0.89	mg/Kg	☼	08/11/21 20:43	08/13/21 21:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	33.7		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 18 (2)

Lab Sample ID: 410-50672-12

Date Collected: 08/10/21 09:35
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 74.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.81	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
1,2-Dichloroethane	ND		10	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
Toluene	1.3	J	10	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
Xylenes, Total	ND		20	2.8	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
Methyl tertiary butyl ether	ND		10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
Benzene	2.8	J	10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
Naphthalene	ND		10	4.0	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
1,2,4-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
Isopropylbenzene	ND		10	0.81	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
1,2-Dibromoethane	ND		10	0.81	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/11/21 12:01*	*08/12/21 16:35*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/11/21 12:01*	*08/12/21 16:35*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*08/11/21 12:01*	*08/12/21 16:35*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/11/21 12:01*	*08/12/21 16:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Benzo[a]anthracene	ND		22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Benzo[a]pyrene	ND		22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Benzo[b]fluoranthene	5.7	J	22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Benzo[g,h,i]perylene	4.5	J	22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Chrysene	13	J	22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1

Client Sample ID: Pipe 18 (2)

Lab Sample ID: 410-50672-12

Date Collected: 08/10/21 09:35
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 74.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Phenanthrene	**29**		22	5.4	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Pyrene	**9.6**	**J**	22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*39 - 100*	*08/12/21 10:21*	*08/13/21 06:00*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/12/21 10:21*	*08/13/21 06:00*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/12/21 10:21*	*08/13/21 06:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**120**		1.9	0.76	mg/Kg	☼	08/11/21 20:43	08/13/21 21:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.7**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 23 (2)

Lab Sample ID: 410-50672-13

Date Collected: 08/10/21 09:45
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 77.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.9	0.79	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
1,2-Dichloroethane	**3.0**	**J**	9.9	1.2	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
1,3,5-Trimethylbenzene	ND		9.9	0.99	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
Toluene	**25**		9.9	1.2	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
Xylenes, Total	**9.5**	**J**	20	2.8	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
Methyl tertiary butyl ether	ND		9.9	0.99	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
Benzene	**14**		9.9	0.99	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
Naphthalene	ND		9.9	3.9	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
1,2,4-Trimethylbenzene	**1.4**	**J**	9.9	0.99	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
Isopropylbenzene	ND		9.9	0.79	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
1,2-Dibromoethane	ND		9.9	0.79	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/11/21 11:19*	*08/12/21 15:03*	*1*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/11/21 11:19*	*08/12/21 15:03*	*1*
Dibromofluoromethane (Surr)	*112*		*50 - 141*	*08/11/21 11:19*	*08/12/21 15:03*	*1*
Toluene-d8 (Surr)	*109*		*52 - 141*	*08/11/21 11:19*	*08/12/21 15:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**4.8**	**J**	21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Benzo[a]anthracene	**9.0**	**J**	21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Benzo[a]pyrene	**7.0**	**J**	21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Benzo[b]fluoranthene	**29**		21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Benzo[g,h,i]perylene	**20**	**J**	21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Chrysene	**25**		21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Phenanthrene	**24**		21	5.1	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1

Client Sample ID: Pipe 23 (2)

Lab Sample ID: 410-50672-13

Date Collected: 08/10/21 09:45
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 77.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	6.4	J	21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/12/21 10:21*	*08/13/21 06:23*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/12/21 10:21*	*08/13/21 06:23*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*08/12/21 10:21*	*08/13/21 06:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	130		1.9	0.75	mg/Kg	☼	08/11/21 20:43	08/13/21 22:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.2		1.0	1.0	%			08/11/21 14:37	1

Client Sample ID: Pipe 24 (2)

Lab Sample ID: 410-50672-14

Date Collected: 08/10/21 09:55
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 72.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.5	0.68	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
1,2-Dichloroethane	3.1	J	8.5	1.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
1,3,5-Trimethylbenzene	1.9	J	8.5	0.85	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
Toluene	20		8.5	1.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
Xylenes, Total	13	J	17	2.4	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
Methyl tertiary butyl ether	ND		8.5	0.85	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
Benzene	8.3	J	8.5	0.85	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
Naphthalene	ND		8.5	3.4	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
1,2,4-Trimethylbenzene	3.3	J	8.5	0.85	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
Isopropylbenzene	ND		8.5	0.68	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
1,2-Dibromoethane	ND		8.5	0.68	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/11/21 11:19*	*08/12/21 15:26*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/11/21 11:19*	*08/12/21 15:26*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*	*08/11/21 11:19*	*08/12/21 15:26*	*1*
Toluene-d8 (Surr)	*103*		*52 - 141*	*08/11/21 11:19*	*08/12/21 15:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	9.9	J	23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Benzo[a]anthracene	5.3	J	23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Benzo[a]pyrene	ND		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Benzo[b]fluoranthene	ND		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Benzo[g,h,i]perylene	ND		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Chrysene	8.5	J	23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Fluorene	14	J	23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Phenanthrene	40		23	5.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Pyrene	19	J	23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1

Client Sample ID: Pipe 24 (2)

Lab Sample ID: 410-50672-14

Date Collected: 08/10/21 09:55

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 72.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		39 - 100	08/12/21 10:21	08/13/21 06:45	1
Nitrobenzene-d5 (Surr)	56		32 - 97	08/12/21 10:21	08/13/21 06:45	1
p-Terphenyl-d14 (Surr)	78		45 - 108	08/12/21 10:21	08/13/21 06:45	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**210**		1.8	0.74	mg/Kg	☼	08/11/21 20:43	08/13/21 22:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.9**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 25 (2)

Lab Sample ID: 410-50672-15

Date Collected: 08/10/21 10:05

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 69.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.80	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
1,2-Dichloroethane	ND		10	1.2	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
1,3,5-Trimethylbenzene	**1.6**	**J**	10	1.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
Toluene	**140**		10	1.2	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
Xylenes, Total	**24**		20	2.8	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
Methyl tertiary butyl ether	**2.2**	**J**	10	1.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
Benzene	**32**		10	1.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
Naphthalene	ND		10	4.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
1,2,4-Trimethylbenzene	**3.7**	**J**	10	1.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
Isopropylbenzene	ND		10	0.80	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
1,2-Dibromoethane	ND		10	0.80	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		54 - 135	08/11/21 11:19	08/12/21 15:49	1
4-Bromofluorobenzene (Surr)	88		50 - 131	08/11/21 11:19	08/12/21 15:49	1
Dibromofluoromethane (Surr)	107		50 - 141	08/11/21 11:19	08/12/21 15:49	1
Toluene-d8 (Surr)	100		52 - 141	08/11/21 11:19	08/12/21 15:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Benzo[a]anthracene	ND		24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Benzo[a]pyrene	ND		24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Benzo[b]fluoranthene	ND		24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Benzo[g,h,i]perylene	**8.4**	**J**	24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Chrysene	**21**	**J**	24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Fluorene	**21**	**J**	24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Phenanthrene	**150**		24	5.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Pyrene	**26**		24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		39 - 100	08/12/21 10:21	08/13/21 07:08	1
Nitrobenzene-d5 (Surr)	58		32 - 97	08/12/21 10:21	08/13/21 07:08	1
p-Terphenyl-d14 (Surr)	70		45 - 108	08/12/21 10:21	08/13/21 07:08	1

Client Sample ID: Pipe 25 (2)

Lab Sample ID: 410-50672-15

Date Collected: 08/10/21 10:05

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 69.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**60**		2.0	0.79	mg/Kg	☼	08/11/21 20:43	08/13/21 22:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.6**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50672-16

Date Collected: 08/10/21 10:15

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 80.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.2	0.65	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
1,2-Dichloroethane	ND		8.2	0.98	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
1,3,5-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
Toluene	**1.4**	**J**	8.2	0.98	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
Xylenes, Total	ND		16	2.3	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
Methyl tertiary butyl ether	ND		8.2	0.82	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
Benzene	**1.1**	**J**	8.2	0.82	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
Naphthalene	ND		8.2	3.3	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
1,2,4-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
Isopropylbenzene	ND		8.2	0.65	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
1,2-Dibromoethane	ND		8.2	0.65	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*54 - 135*	*08/11/21 11:19*	*08/12/21 20:03*	*1*
4-Bromofluorobenzene (Surr)	*80*		*50 - 131*	*08/11/21 11:19*	*08/12/21 20:03*	*1*
Dibromofluoromethane (Surr)	*115*		*50 - 141*	*08/11/21 11:19*	*08/12/21 20:03*	*1*
Toluene-d8 (Surr)	*108*		*52 - 141*	*08/11/21 11:19*	*08/12/21 20:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**19**	**J**	21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Benzo[a]anthracene	**29**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Benzo[a]pyrene	**21**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Benzo[b]fluoranthene	**39**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Benzo[g,h,i]perylene	**18**	**J**	21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Chrysene	**38**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Fluorene	ND		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Phenanthrene	**76**		21	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Pyrene	**57**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/12/21 10:21*	*08/13/21 07:30*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/12/21 10:21*	*08/13/21 07:30*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/12/21 10:21*	*08/13/21 07:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**120**		1.8	0.74	mg/Kg	☼	08/11/21 20:43	08/13/21 21:58	1

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50672-16

Date Collected: 08/10/21 10:15
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 80.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.2**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 20 (2)

Lab Sample ID: 410-50672-17

Date Collected: 08/10/21 10:30
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 74.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.3	0.75	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
1,2-Dichloroethane	ND		9.3	1.1	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
1,3,5-Trimethylbenzene	ND		9.3	0.93	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
Toluene	**4.0**	**J**	9.3	1.1	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
Xylenes, Total	ND		19	2.6	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
Methyl tertiary butyl ether	ND		9.3	0.93	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
Benzene	**3.7**	**J**	9.3	0.93	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
Naphthalene	ND		9.3	3.7	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
1,2,4-Trimethylbenzene	ND		9.3	0.93	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
Isopropylbenzene	ND		9.3	0.75	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
1,2-Dibromoethane	ND		9.3	0.75	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/11/21 11:19*	*08/12/21 20:26*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/11/21 11:19*	*08/12/21 20:26*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*08/11/21 11:19*	*08/12/21 20:26*	*1*
Toluene-d8 (Surr)	*100*		*52 - 141*	*08/11/21 11:19*	*08/12/21 20:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Benzo[a]anthracene	**9.1**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Benzo[a]pyrene	**5.7**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Benzo[b]fluoranthene	**14**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Benzo[g,h,i]perylene	**7.1**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Chrysene	**11**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Fluorene	ND		22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Phenanthrene	**10**	**J**	22	5.3	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Pyrene	**9.8**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*08/12/21 10:21*	*08/13/21 07:53*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/12/21 10:21*	*08/13/21 07:53*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/12/21 10:21*	*08/13/21 07:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**66**		2.0	0.78	mg/Kg	☼	08/11/21 20:43	08/13/21 21:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.1**		1.0	1.0	%			08/11/21 14:37	1

Client Sample ID: Pipe 21 (2)

Lab Sample ID: 410-50672-18

Date Collected: 08/10/21 10:40
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 70.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.9	0.71	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
1,2-Dichloroethane	ND		8.9	1.1	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
1,3,5-Trimethylbenzene	ND		8.9	0.89	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
Toluene	ND		8.9	1.1	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
Xylenes, Total	ND		18	2.5	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
Methyl tertiary butyl ether	ND		8.9	0.89	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
Benzene	ND		8.9	0.89	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
Naphthalene	ND		8.9	3.6	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
1,2,4-Trimethylbenzene	ND		8.9	0.89	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
Isopropylbenzene	ND		8.9	0.71	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
1,2-Dibromoethane	ND		8.9	0.71	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/11/21 11:19*	*08/12/21 16:58*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*08/11/21 11:19*	*08/12/21 16:58*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*08/11/21 11:19*	*08/12/21 16:58*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/11/21 11:19*	*08/12/21 16:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Benzo[a]anthracene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Benzo[a]pyrene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Benzo[b]fluoranthene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Benzo[g,h,i]perylene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Chrysene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Fluorene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Phenanthrene	**23**	**J**	24	5.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Pyrene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*39 - 100*	*08/12/21 10:21*	*08/13/21 08:15*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/12/21 10:21*	*08/13/21 08:15*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/12/21 10:21*	*08/13/21 08:15*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**28**		2.0	0.79	mg/Kg	☼	08/11/21 20:43	08/13/21 21:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.3**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 22 (2)

Lab Sample ID: 410-50672-19

Date Collected: 08/10/21 10:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 76.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		480	39	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
1,2-Dichloroethane	ND		480	58	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50

Client Sample ID: Pipe 22 (2)

Date Collected: 08/10/21 10:50
Date Received: 08/10/21 16:48

Lab Sample ID: 410-50672-19

Matrix: Solid
Percent Solids: 76.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	51	J	480	48	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
Toluene	61	J	480	58	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
Xylenes, Total	170	J	970	140	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
Methyl tertiary butyl ether	ND		480	48	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
Benzene	ND		480	48	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
Naphthalene	ND		480	190	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
1,2,4-Trimethylbenzene	99	J	480	48	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
Isopropylbenzene	ND		480	39	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
1,2-Dibromoethane	ND		480	39	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*08/11/21 11:05*	*08/13/21 16:10*	*50*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/11/21 11:05*	*08/13/21 16:10*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*	*08/11/21 11:05*	*08/13/21 16:10*	*50*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/11/21 11:05*	*08/13/21 16:10*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	22		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Benzo[a]anthracene	35		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Benzo[a]pyrene	33		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Benzo[b]fluoranthene	41		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Benzo[g,h,i]perylene	38		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Chrysene	52		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Fluorene	11	J	22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Phenanthrene	50		22	5.2	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Pyrene	42		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*08/12/21 10:21*	*08/13/21 08:38*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/12/21 10:21*	*08/13/21 08:38*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/12/21 10:21*	*08/13/21 08:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1100		1.7	0.70	mg/Kg	☼	08/11/21 20:43	08/13/21 21:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.1		1.0	1.0	%			08/12/21 09:46	1

Client Sample ID: Trip Blank

Date Collected: 08/10/21 00:00
Date Received: 08/10/21 16:48

Lab Sample ID: 410-50672-20

Matrix: Water

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/13/21 10:36	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/13/21 10:36	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/13/21 10:36	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:36	1

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: Trip Blank
Date Collected: 08/10/21 00:00
Date Received: 08/10/21 16:48

Lab Sample ID: 410-50672-20
Matrix: Water

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.30	ug/L			08/13/21 10:36	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/13/21 10:36	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/13/21 10:36	1
Benzene	ND		1.0	0.30	ug/L			08/13/21 10:36	1
Naphthalene	ND		5.0	1.0	ug/L			08/13/21 10:36	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/13/21 10:36	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*08/13/21 10:36*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*08/13/21 10:36*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/13/21 10:36*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/13/21 10:36*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-50672-1	Pipe 69 (2)	105	89	16 S1-	93
410-50672-2	Pipe 68 (2)	112	99	106	94
410-50672-3	Pipe 57 (2)	103	92	102	94
410-50672-4	Pipe 58 (2)	107	82	104	105
410-50672-5	Pipe 59 (2)	109	93	103	94
410-50672-6	Pipe 56 (2)	116	83	115	105
410-50672-7	Pipe 54 (2)	114	87	109	102
410-50672-8	Pipe 67 (2)	111	89	109	99
410-50672-9	DUP-5	111	89	107	99
410-50672-10	Pipe 19 (2)	107	88	105	101
410-50672-11	941-P2 (2)	109	86	107	102
410-50672-12	Pipe 18 (2)	112	87	109	102
410-50672-13	Pipe 23 (2)	114	82	112	109
410-50672-14	Pipe 24 (2)	114	86	108	103
410-50672-15	Pipe 25 (2)	111	88	107	100
410-50672-16	Pipe 74 (2)	119	80	115	108
410-50672-17	Pipe 20 (2)	114	88	109	100
410-50672-18	Pipe 21 (2)	111	94	107	95
410-50672-19	Pipe 22 (2)	104	89	98	93
LCS 410-159582/4	Lab Control Sample	104	99	102	98
LCS 410-160023/4	Lab Control Sample	92	83	93	89
LCSD 410-159582/5	Lab Control Sample Dup	101	98	102	98
LCSD 410-160023/5	Lab Control Sample Dup	95	84	95	89
MB 410-159582/7	Method Blank	105	95	105	96
MB 410-160023/7	Method Blank	105	87	99	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-50672-20	Trip Blank	95	105	99	93
LCS 410-160096/4	Lab Control Sample	97	105	101	94
LCSD 410-160096/5	Lab Control Sample Dup	97	103	100	93
MB 410-160096/6	Method Blank	97	104	100	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Job ID: 410-50672-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)						
410-50672-1	Pipe 69 (2)	75	63	84						
410-50672-2	Pipe 68 (2)	78	68	87						
410-50672-3	Pipe 57 (2)	89	75	91						
410-50672-3 MS	Pipe 57 (2)	73	61	78						
410-50672-3 MSD	Pipe 57 (2)	79	66	82						
410-50672-4	Pipe 58 (2)	80	65	78						
410-50672-5	Pipe 59 (2)	80	66	83						
410-50672-6	Pipe 56 (2)	80	67	76						
410-50672-7	Pipe 54 (2)	80	65	82						
410-50672-8	Pipe 67 (2)	83	73	81						
410-50672-9	DUP-5	83	72	81						
410-50672-10	Pipe 19 (2)	82	68	81						
410-50672-11	941-P2 (2)	80	70	80						
410-50672-12	Pipe 18 (2)	88	73	86						
410-50672-13	Pipe 23 (2)	80	64	84						
410-50672-14	Pipe 24 (2)	68	56	78						
410-50672-15	Pipe 25 (2)	66	58	70						
410-50672-16	Pipe 74 (2)	84	66	82						
410-50672-17	Pipe 20 (2)	85	73	82						
410-50672-18	Pipe 21 (2)	88	72	85						
410-50672-19	Pipe 22 (2)	74	63	86						
LCS 410-159508/2-A	Lab Control Sample	77	68	86						
MB 410-159508/1-A	Method Blank	83	76	92						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-159582/7
Matrix: Solid
Analysis Batch: 159582

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/12/21 12:17	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/12/21 12:17	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/12/21 12:17	1
Toluene	ND		5.0	0.60	ug/Kg			08/12/21 12:17	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/12/21 12:17	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/12/21 12:17	1
Benzene	ND		5.0	0.50	ug/Kg			08/12/21 12:17	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/12/21 12:17	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/12/21 12:17	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/12/21 12:17	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/12/21 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*		*08/12/21 12:17*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*		*08/12/21 12:17*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*		*08/12/21 12:17*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*		*08/12/21 12:17*	*1*

Lab Sample ID: LCS 410-159582/4
Matrix: Solid
Analysis Batch: 159582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	18.7		ug/Kg		94	78 - 120		
1,2-Dichloroethane			20.0	21.2		ug/Kg		106	71 - 128		
1,3,5-Trimethylbenzene			20.0	18.3		ug/Kg		92	73 - 120		
Toluene			20.0	18.9		ug/Kg		95	80 - 120		
Xylenes, Total			60.0	56.4		ug/Kg		94	75 - 120		
Methyl tertiary butyl ether			20.0	21.1		ug/Kg		105	72 - 120		
Benzene			20.0	20.9		ug/Kg		105	80 - 120		
Naphthalene			20.0	18.4		ug/Kg		92	48 - 130		
1,2,4-Trimethylbenzene			20.0	18.3		ug/Kg		92	73 - 120		
Isopropylbenzene			20.0	18.4		ug/Kg		92	77 - 120		
1,2-Dibromoethane			20.0	20.5		ug/Kg		103	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*
4-Bromofluorobenzene (Surr)	*99*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: LCSD 410-159582/5
Matrix: Solid
Analysis Batch: 159582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.2		ug/Kg		91	78 - 120	3	30
1,2-Dichloroethane			20.0	21.7		ug/Kg		109	71 - 128	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-159582/5
Matrix: Solid
Analysis Batch: 159582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	17.9		ug/Kg		90	73 - 120	2	30
Toluene			20.0	18.6		ug/Kg		93	80 - 120	1	30
Xylenes, Total			60.0	55.2		ug/Kg		92	75 - 120	2	30
Methyl tertiary butyl ether			20.0	21.0		ug/Kg		105	72 - 120	0	30
Benzene			20.0	20.8		ug/Kg		104	80 - 120	1	30
Naphthalene			20.0	18.7		ug/Kg		93	48 - 130	2	30
1,2,4-Trimethylbenzene			20.0	18.1		ug/Kg		90	73 - 120	1	30
Isopropylbenzene			20.0	18.0		ug/Kg		90	77 - 120	2	30
1,2-Dibromoethane			20.0	20.9		ug/Kg		105	76 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: MB 410-160023/7
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/13/21 10:30	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/13/21 10:30	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/13/21 10:30	50
Toluene	ND		250	30	ug/Kg			08/13/21 10:30	50
Xylenes, Total	ND		500	70	ug/Kg			08/13/21 10:30	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/13/21 10:30	50
Benzene	ND		250	25	ug/Kg			08/13/21 10:30	50
Naphthalene	ND		250	100	ug/Kg			08/13/21 10:30	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/13/21 10:30	50
Isopropylbenzene	ND		250	20	ug/Kg			08/13/21 10:30	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/13/21 10:30	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*		*08/13/21 10:30*	*50*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*		*08/13/21 10:30*	*50*
Dibromofluoromethane (Surr)	*99*		*50 - 141*		*08/13/21 10:30*	*50*
Toluene-d8 (Surr)	*93*		*52 - 141*		*08/13/21 10:30*	*50*

Lab Sample ID: LCS 410-160023/4
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	930		ug/Kg		93	78 - 120
1,2-Dichloroethane			1000	902		ug/Kg		90	71 - 128
1,3,5-Trimethylbenzene			1000	870		ug/Kg		87	73 - 120
Toluene			1000	941		ug/Kg		94	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-160023/4
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	3000	2890		ug/Kg		96	75 - 120
Methyl tertiary butyl ether	1000	949		ug/Kg		95	72 - 120
Benzene	1000	974		ug/Kg		97	80 - 120
Naphthalene	1000	908		ug/Kg		91	48 - 130
1,2,4-Trimethylbenzene	1000	861		ug/Kg		86	73 - 120
Isopropylbenzene	1000	966		ug/Kg		97	77 - 120
1,2-Dibromoethane	1000	957		ug/Kg		96	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*54 - 135*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*
Dibromofluoromethane (Surr)	*93*		*50 - 141*
Toluene-d8 (Surr)	*89*		*52 - 141*

Lab Sample ID: LCSD 410-160023/5
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	1000	922		ug/Kg		92	78 - 120	1	30
1,2-Dichloroethane	1000	919		ug/Kg		92	71 - 128	2	30
1,3,5-Trimethylbenzene	1000	851		ug/Kg		85	73 - 120	2	30
Toluene	1000	950		ug/Kg		95	80 - 120	1	30
Xylenes, Total	3000	2860		ug/Kg		95	75 - 120	1	30
Methyl tertiary butyl ether	1000	952		ug/Kg		95	72 - 120	0	30
Benzene	1000	979		ug/Kg		98	80 - 120	0	30
Naphthalene	1000	913		ug/Kg		91	48 - 130	1	30
1,2,4-Trimethylbenzene	1000	855		ug/Kg		86	73 - 120	1	30
Isopropylbenzene	1000	964		ug/Kg		96	77 - 120	0	30
1,2-Dibromoethane	1000	956		ug/Kg		96	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*54 - 135*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*89*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-160096/6
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/13/21 10:12	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/13/21 10:12	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:12	1

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-160096/6
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/13/21 10:12	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/13/21 10:12	1
Benzene	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Naphthalene	ND		5.0	1.0	ug/L			08/13/21 10:12	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/13/21 10:12	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/13/21 10:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/13/21 10:12*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/13/21 10:12*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/13/21 10:12*	*1*

Lab Sample ID: LCS 410-160096/4
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	16.2		ug/L		81	77 - 120		
Ethylbenzene			20.0	16.8		ug/L		84	80 - 120		
1,2-Dichloroethane			20.0	17.6		ug/L		88	73 - 124		
1,3,5-Trimethylbenzene			20.0	15.8		ug/L		79	75 - 120		
Toluene			20.0	16.4		ug/L		82	80 - 120		
Xylenes, Total			60.0	49.9		ug/L		83	80 - 120		
Methyl tertiary butyl ether			20.0	18.1		ug/L		90	69 - 122		
Benzene			20.0	18.2		ug/L		91	80 - 120		
Naphthalene			20.0	16.2		ug/L		81	53 - 124		
1,2,4-Trimethylbenzene			20.0	15.6		ug/L		78	75 - 120		
Isopropylbenzene			20.0	16.3		ug/L		81	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: LCSD 410-160096/5
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	18.4		ug/L		92	77 - 120	13	30
Ethylbenzene			20.0	18.9		ug/L		94	80 - 120	11	30
1,2-Dichloroethane			20.0	19.9		ug/L		99	73 - 124	12	30
1,3,5-Trimethylbenzene			20.0	17.6		ug/L		88	75 - 120	11	30
Toluene			20.0	18.5		ug/L		93	80 - 120	12	30
Xylenes, Total			60.0	55.7		ug/L		93	80 - 120	11	30

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-160096/5
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tertiary butyl ether			20.0	20.4		ug/L		102	69 - 122	12	30
Benzene			20.0	20.4		ug/L		102	80 - 120	11	30
Naphthalene			20.0	17.9		ug/L		89	53 - 124	10	30
1,2,4-Trimethylbenzene			20.0	17.7		ug/L		88	75 - 120	13	30
Isopropylbenzene			20.0	18.2		ug/L		91	80 - 120	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-159508/1-A
Matrix: Solid
Analysis Batch: 159845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Chrysene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Fluorene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Phenanthrene	ND		17	4.0	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Pyrene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/12/21 10:21*	*08/12/21 19:13*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*08/12/21 10:21*	*08/12/21 19:13*	*1*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*	*08/12/21 10:21*	*08/12/21 19:13*	*1*

Lab Sample ID: LCS 410-159508/2-A
Matrix: Solid
Analysis Batch: 159845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159508

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene			1670	1290		ug/Kg		78	75 - 120
Benzo[a]anthracene			1670	1290		ug/Kg		77	73 - 120
Benzo[a]pyrene			1670	1440		ug/Kg		87	80 - 123
Benzo[b]fluoranthene			1670	1330		ug/Kg		80	63 - 120
Benzo[g,h,i]perylene			1670	1670		ug/Kg		100	77 - 120
Chrysene			1670	1290		ug/Kg		78	66 - 120
Fluorene			1670	1320		ug/Kg		79	68 - 120
Phenanthrene			1670	1250		ug/Kg		75	74 - 120
Pyrene			1670	1240		ug/Kg		74	70 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-159508/2-A
Matrix: Solid
Analysis Batch: 159845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159508

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	77		39 - 100
Nitrobenzene-d5 (Surr)	68		32 - 97
p-Terphenyl-d14 (Surr)	86		45 - 108

Lab Sample ID: 410-50672-3 MS
Matrix: Solid
Analysis Batch: 159966

Client Sample ID: Pipe 57 (2)
Prep Type: Total/NA
Prep Batch: 159508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	ND		3120	2350		ug/Kg	☼	75	75 - 120
Benzo[a]anthracene	ND		3120	2640		ug/Kg	☼	85	73 - 120
Benzo[a]pyrene	ND		3120	2560		ug/Kg	☼	82	80 - 123
Benzo[b]fluoranthene	ND		3120	2150		ug/Kg	☼	69	63 - 120
Benzo[g,h,i]perylene	24	J	3120	2690		ug/Kg	☼	86	77 - 120
Chrysene	ND		3120	2580		ug/Kg	☼	83	66 - 120
Fluorene	ND		3120	2410		ug/Kg	☼	77	68 - 120
Phenanthrene	ND		3120	2300		ug/Kg	☼	74	74 - 120
Pyrene	ND		3120	2400		ug/Kg	☼	77	70 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	73		39 - 100
Nitrobenzene-d5 (Surr)	61		32 - 97
p-Terphenyl-d14 (Surr)	78		45 - 108

Lab Sample ID: 410-50672-3 MSD
Matrix: Solid
Analysis Batch: 159966

Client Sample ID: Pipe 57 (2)
Prep Type: Total/NA
Prep Batch: 159508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	ND		3130	2510		ug/Kg	☼	80	75 - 120	7	30
Benzo[a]anthracene	ND		3130	2760		ug/Kg	☼	88	73 - 120	5	30
Benzo[a]pyrene	ND		3130	2720		ug/Kg	☼	87	80 - 123	6	30
Benzo[b]fluoranthene	ND		3130	2540		ug/Kg	☼	81	63 - 120	17	30
Benzo[g,h,i]perylene	24	J	3130	2800		ug/Kg	☼	89	77 - 120	4	30
Chrysene	ND		3130	2740		ug/Kg	☼	88	66 - 120	6	30
Fluorene	ND		3130	2650		ug/Kg	☼	85	68 - 120	10	30
Phenanthrene	ND		3130	2430		ug/Kg	☼	78	74 - 120	6	30
Pyrene	ND		3130	2560		ug/Kg	☼	82	70 - 120	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	79		39 - 100
Nitrobenzene-d5 (Surr)	66		32 - 97
p-Terphenyl-d14 (Surr)	82		45 - 108

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-159427/1-A
Matrix: Solid
Analysis Batch: 160481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/11/21 20:43	08/13/21 20:49	1

Lab Sample ID: LCS 410-159427/2-A
Matrix: Solid
Analysis Batch: 160481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159427

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			5.00	5.39		mg/Kg		108	80 - 120		

Lab Sample ID: 410-50672-6 MS
Matrix: Solid
Analysis Batch: 160481

Client Sample ID: Pipe 56 (2)
Prep Type: Total/NA
Prep Batch: 159427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	160	F2	5.62	77.4	4	mg/Kg	☼	-1490	75 - 125		

Lab Sample ID: 410-50672-6 MSD
Matrix: Solid
Analysis Batch: 160481

Client Sample ID: Pipe 56 (2)
Prep Type: Total/NA
Prep Batch: 159427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	160	F2	5.18	130	4 F2	mg/Kg	☼	-612	75 - 125	50	20

Lab Sample ID: 410-50672-6 DU
Matrix: Solid
Analysis Batch: 160481

Client Sample ID: Pipe 56 (2)
Prep Type: Total/NA
Prep Batch: 159427

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	160	F2	124	F3	mg/Kg	☼	26	20

GC/MS VOA

Prep Batch: 159133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1 - RA	Pipe 69 (2)	Total/NA	Solid	5035	
410-50672-1	Pipe 69 (2)	Total/NA	Solid	5035	
410-50672-19	Pipe 22 (2)	Total/NA	Solid	5035	

Prep Batch: 159136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-2	Pipe 68 (2)	Total/NA	Solid	5035	
410-50672-3	Pipe 57 (2)	Total/NA	Solid	5035	
410-50672-4	Pipe 58 (2)	Total/NA	Solid	5035	
410-50672-4 - RA	Pipe 58 (2)	Total/NA	Solid	5035	
410-50672-5	Pipe 59 (2)	Total/NA	Solid	5035	
410-50672-6	Pipe 56 (2)	Total/NA	Solid	5035	
410-50672-7	Pipe 54 (2)	Total/NA	Solid	5035	
410-50672-8	Pipe 67 (2)	Total/NA	Solid	5035	
410-50672-9	DUP-5	Total/NA	Solid	5035	
410-50672-10	Pipe 19 (2)	Total/NA	Solid	5035	
410-50672-11	941-P2 (2)	Total/NA	Solid	5035	
410-50672-12	Pipe 18 (2)	Total/NA	Solid	5035	
410-50672-13	Pipe 23 (2)	Total/NA	Solid	5035	
410-50672-14	Pipe 24 (2)	Total/NA	Solid	5035	
410-50672-15	Pipe 25 (2)	Total/NA	Solid	5035	
410-50672-16	Pipe 74 (2)	Total/NA	Solid	5035	
410-50672-17	Pipe 20 (2)	Total/NA	Solid	5035	
410-50672-18	Pipe 21 (2)	Total/NA	Solid	5035	

Analysis Batch: 159582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-2	Pipe 68 (2)	Total/NA	Solid	8260C	159136
410-50672-3	Pipe 57 (2)	Total/NA	Solid	8260C	159136
410-50672-4	Pipe 58 (2)	Total/NA	Solid	8260C	159136
410-50672-5	Pipe 59 (2)	Total/NA	Solid	8260C	159136
410-50672-6	Pipe 56 (2)	Total/NA	Solid	8260C	159136
410-50672-7	Pipe 54 (2)	Total/NA	Solid	8260C	159136
410-50672-8	Pipe 67 (2)	Total/NA	Solid	8260C	159136
410-50672-9	DUP-5	Total/NA	Solid	8260C	159136
410-50672-10	Pipe 19 (2)	Total/NA	Solid	8260C	159136
410-50672-11	941-P2 (2)	Total/NA	Solid	8260C	159136
410-50672-12	Pipe 18 (2)	Total/NA	Solid	8260C	159136
410-50672-13	Pipe 23 (2)	Total/NA	Solid	8260C	159136
410-50672-14	Pipe 24 (2)	Total/NA	Solid	8260C	159136
410-50672-15	Pipe 25 (2)	Total/NA	Solid	8260C	159136
410-50672-16	Pipe 74 (2)	Total/NA	Solid	8260C	159136
410-50672-17	Pipe 20 (2)	Total/NA	Solid	8260C	159136
410-50672-18	Pipe 21 (2)	Total/NA	Solid	8260C	159136
MB 410-159582/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159582/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159582/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 160023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1	Pipe 69 (2)	Total/NA	Solid	8260C	159133

GC/MS VOA (Continued)

Analysis Batch: 160023 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-19	Pipe 22 (2)	Total/NA	Solid	8260C	159133
MB 410-160023/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-160023/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160023/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 160096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-20	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-160096/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-160096/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-160096/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Analysis Batch: 160454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1 - RA	Pipe 69 (2)	Total/NA	Solid	8260C	159133
MB 410-160454/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-160454/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160454/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 160576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-4 - RA	Pipe 58 (2)	Total/NA	Solid	8260C	159136
MB 410-160576/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-160576/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160576/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 159508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1	Pipe 69 (2)	Total/NA	Solid	3546	
410-50672-2	Pipe 68 (2)	Total/NA	Solid	3546	
410-50672-3	Pipe 57 (2)	Total/NA	Solid	3546	
410-50672-4	Pipe 58 (2)	Total/NA	Solid	3546	
410-50672-5	Pipe 59 (2)	Total/NA	Solid	3546	
410-50672-6	Pipe 56 (2)	Total/NA	Solid	3546	
410-50672-7	Pipe 54 (2)	Total/NA	Solid	3546	
410-50672-8	Pipe 67 (2)	Total/NA	Solid	3546	
410-50672-9	DUP-5	Total/NA	Solid	3546	
410-50672-10	Pipe 19 (2)	Total/NA	Solid	3546	
410-50672-11	941-P2 (2)	Total/NA	Solid	3546	
410-50672-12	Pipe 18 (2)	Total/NA	Solid	3546	
410-50672-13	Pipe 23 (2)	Total/NA	Solid	3546	
410-50672-14	Pipe 24 (2)	Total/NA	Solid	3546	
410-50672-15	Pipe 25 (2)	Total/NA	Solid	3546	
410-50672-16	Pipe 74 (2)	Total/NA	Solid	3546	
410-50672-17	Pipe 20 (2)	Total/NA	Solid	3546	
410-50672-18	Pipe 21 (2)	Total/NA	Solid	3546	
410-50672-19	Pipe 22 (2)	Total/NA	Solid	3546	
MB 410-159508/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-159508/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 159508 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-3 MS	Pipe 57 (2)	Total/NA	Solid	3546	
410-50672-3 MSD	Pipe 57 (2)	Total/NA	Solid	3546	

Analysis Batch: 159845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-159508/1-A	Method Blank	Total/NA	Solid	8270D	159508
LCS 410-159508/2-A	Lab Control Sample	Total/NA	Solid	8270D	159508

Analysis Batch: 159966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1	Pipe 69 (2)	Total/NA	Solid	8270D	159508
410-50672-2	Pipe 68 (2)	Total/NA	Solid	8270D	159508
410-50672-3	Pipe 57 (2)	Total/NA	Solid	8270D	159508
410-50672-4	Pipe 58 (2)	Total/NA	Solid	8270D	159508
410-50672-5	Pipe 59 (2)	Total/NA	Solid	8270D	159508
410-50672-6	Pipe 56 (2)	Total/NA	Solid	8270D	159508
410-50672-7	Pipe 54 (2)	Total/NA	Solid	8270D	159508
410-50672-8	Pipe 67 (2)	Total/NA	Solid	8270D	159508
410-50672-9	DUP-5	Total/NA	Solid	8270D	159508
410-50672-10	Pipe 19 (2)	Total/NA	Solid	8270D	159508
410-50672-11	941-P2 (2)	Total/NA	Solid	8270D	159508
410-50672-12	Pipe 18 (2)	Total/NA	Solid	8270D	159508
410-50672-13	Pipe 23 (2)	Total/NA	Solid	8270D	159508
410-50672-14	Pipe 24 (2)	Total/NA	Solid	8270D	159508
410-50672-15	Pipe 25 (2)	Total/NA	Solid	8270D	159508
410-50672-16	Pipe 74 (2)	Total/NA	Solid	8270D	159508
410-50672-17	Pipe 20 (2)	Total/NA	Solid	8270D	159508
410-50672-18	Pipe 21 (2)	Total/NA	Solid	8270D	159508
410-50672-19	Pipe 22 (2)	Total/NA	Solid	8270D	159508
410-50672-3 MS	Pipe 57 (2)	Total/NA	Solid	8270D	159508
410-50672-3 MSD	Pipe 57 (2)	Total/NA	Solid	8270D	159508

Metals

Prep Batch: 159427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1	Pipe 69 (2)	Total/NA	Solid	3050B	
410-50672-2	Pipe 68 (2)	Total/NA	Solid	3050B	
410-50672-3	Pipe 57 (2)	Total/NA	Solid	3050B	
410-50672-4	Pipe 58 (2)	Total/NA	Solid	3050B	
410-50672-5	Pipe 59 (2)	Total/NA	Solid	3050B	
410-50672-6	Pipe 56 (2)	Total/NA	Solid	3050B	
410-50672-7	Pipe 54 (2)	Total/NA	Solid	3050B	
410-50672-8	Pipe 67 (2)	Total/NA	Solid	3050B	
410-50672-9	DUP-5	Total/NA	Solid	3050B	
410-50672-10	Pipe 19 (2)	Total/NA	Solid	3050B	
410-50672-11	941-P2 (2)	Total/NA	Solid	3050B	
410-50672-12	Pipe 18 (2)	Total/NA	Solid	3050B	
410-50672-13	Pipe 23 (2)	Total/NA	Solid	3050B	
410-50672-14	Pipe 24 (2)	Total/NA	Solid	3050B	
410-50672-15	Pipe 25 (2)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 159427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-16	Pipe 74 (2)	Total/NA	Solid	3050B	
410-50672-17	Pipe 20 (2)	Total/NA	Solid	3050B	
410-50672-18	Pipe 21 (2)	Total/NA	Solid	3050B	
410-50672-19	Pipe 22 (2)	Total/NA	Solid	3050B	
MB 410-159427/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-159427/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-50672-6 MS	Pipe 56 (2)	Total/NA	Solid	3050B	
410-50672-6 MSD	Pipe 56 (2)	Total/NA	Solid	3050B	
410-50672-6 DU	Pipe 56 (2)	Total/NA	Solid	3050B	

Analysis Batch: 160481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1	Pipe 69 (2)	Total/NA	Solid	6010C	159427
410-50672-2	Pipe 68 (2)	Total/NA	Solid	6010C	159427
410-50672-3	Pipe 57 (2)	Total/NA	Solid	6010C	159427
410-50672-4	Pipe 58 (2)	Total/NA	Solid	6010C	159427
410-50672-5	Pipe 59 (2)	Total/NA	Solid	6010C	159427
410-50672-6	Pipe 56 (2)	Total/NA	Solid	6010C	159427
410-50672-7	Pipe 54 (2)	Total/NA	Solid	6010C	159427
410-50672-8	Pipe 67 (2)	Total/NA	Solid	6010C	159427
410-50672-9	DUP-5	Total/NA	Solid	6010C	159427
410-50672-10	Pipe 19 (2)	Total/NA	Solid	6010C	159427
410-50672-11	941-P2 (2)	Total/NA	Solid	6010C	159427
410-50672-12	Pipe 18 (2)	Total/NA	Solid	6010C	159427
410-50672-13	Pipe 23 (2)	Total/NA	Solid	6010C	159427
410-50672-14	Pipe 24 (2)	Total/NA	Solid	6010C	159427
410-50672-15	Pipe 25 (2)	Total/NA	Solid	6010C	159427
410-50672-16	Pipe 74 (2)	Total/NA	Solid	6010C	159427
410-50672-17	Pipe 20 (2)	Total/NA	Solid	6010C	159427
410-50672-18	Pipe 21 (2)	Total/NA	Solid	6010C	159427
410-50672-19	Pipe 22 (2)	Total/NA	Solid	6010C	159427
MB 410-159427/1-A	Method Blank	Total/NA	Solid	6010C	159427
LCS 410-159427/2-A	Lab Control Sample	Total/NA	Solid	6010C	159427
410-50672-6 MS	Pipe 56 (2)	Total/NA	Solid	6010C	159427
410-50672-6 MSD	Pipe 56 (2)	Total/NA	Solid	6010C	159427
410-50672-6 DU	Pipe 56 (2)	Total/NA	Solid	6010C	159427

General Chemistry

Analysis Batch: 159245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-3	Pipe 57 (2)	Total/NA	Solid	Moisture	
410-50672-4	Pipe 58 (2)	Total/NA	Solid	Moisture	
410-50672-13	Pipe 23 (2)	Total/NA	Solid	Moisture	
410-50672-17	Pipe 20 (2)	Total/NA	Solid	Moisture	

Analysis Batch: 159325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1	Pipe 69 (2)	Total/NA	Solid	Moisture	
410-50672-2	Pipe 68 (2)	Total/NA	Solid	Moisture	
410-50672-5	Pipe 59 (2)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 159325 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-6	Pipe 56 (2)	Total/NA	Solid	Moisture	
410-50672-7	Pipe 54 (2)	Total/NA	Solid	Moisture	
410-50672-8	Pipe 67 (2)	Total/NA	Solid	Moisture	
410-50672-9	DUP-5	Total/NA	Solid	Moisture	
410-50672-10	Pipe 19 (2)	Total/NA	Solid	Moisture	
410-50672-11	941-P2 (2)	Total/NA	Solid	Moisture	
410-50672-12	Pipe 18 (2)	Total/NA	Solid	Moisture	
410-50672-14	Pipe 24 (2)	Total/NA	Solid	Moisture	
410-50672-15	Pipe 25 (2)	Total/NA	Solid	Moisture	
410-50672-16	Pipe 74 (2)	Total/NA	Solid	Moisture	
410-50672-18	Pipe 21 (2)	Total/NA	Solid	Moisture	

Analysis Batch: 159620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-19	Pipe 22 (2)	Total/NA	Solid	Moisture	

Client Sample ID: Pipe 69 (2) — **Lab Sample ID: 410-50672-1**
Date Collected: 08/09/21 13:05 — **Matrix: Solid**
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 69 (2) — **Lab Sample ID: 410-50672-1**
Date Collected: 08/09/21 13:05 — **Matrix: Solid**
Date Received: 08/10/21 16:48 — **Percent Solids: 48.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159133	08/11/21 11:05	JJT8	ELLE
Total/NA	Analysis	8260C		50	160023	08/13/21 15:49	USEJ	ELLE
Total/NA	Prep	5035	RA		159133	08/11/21 11:05	JJT8	ELLE
Total/NA	Analysis	8260C	RA	50	160454	08/13/21 23:14	SWV2	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 01:08	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:23	XQY5	ELLE

Client Sample ID: Pipe 68 (2) — **Lab Sample ID: 410-50672-2**
Date Collected: 08/09/21 13:15 — **Matrix: Solid**
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 68 (2) — **Lab Sample ID: 410-50672-2**
Date Collected: 08/09/21 13:15 — **Matrix: Solid**
Date Received: 08/10/21 16:48 — **Percent Solids: 58.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 16:12	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 01:30	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:39	XQY5	ELLE

Client Sample ID: Pipe 57 (2) — **Lab Sample ID: 410-50672-3**
Date Collected: 08/09/21 13:35 — **Matrix: Solid**
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159245	08/11/21 14:37	X4C8	ELLE

Client Sample ID: Pipe 57 (2)

Lab Sample ID: 410-50672-3

Date Collected: 08/09/21 13:35

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 53.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 17:21	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 01:53	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:19	XQY5	ELLE

Client Sample ID: Pipe 58 (2)

Lab Sample ID: 410-50672-4

Date Collected: 08/09/21 13:50

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159245	08/11/21 14:37	X4C8	ELLE

Client Sample ID: Pipe 58 (2)

Lab Sample ID: 410-50672-4

Date Collected: 08/09/21 13:50

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 17:45	USEJ	ELLE
Total/NA	Prep	5035	RA		159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	160576	08/15/21 19:24	UCB5	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 03:00	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:26	XQY5	ELLE

Client Sample ID: Pipe 59 (2)

Lab Sample ID: 410-50672-5

Date Collected: 08/09/21 14:05

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 59 (2)

Lab Sample ID: 410-50672-5

Date Collected: 08/09/21 14:05

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 55.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 18:08	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 03:23	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:29	XQY5	ELLE

Client Sample ID: Pipe 56 (2)

Lab Sample ID: 410-50672-6

Date Collected: 08/09/21 14:20

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 56 (2)

Lab Sample ID: 410-50672-6

Date Collected: 08/09/21 14:20

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 18:31	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 03:45	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:01	XQY5	ELLE

Client Sample ID: Pipe 54 (2)

Lab Sample ID: 410-50672-7

Date Collected: 08/09/21 14:30

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 54 (2)

Lab Sample ID: 410-50672-7

Date Collected: 08/09/21 14:30

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 18:54	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 04:08	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:48	XQY5	ELLE

Client Sample ID: Pipe 67 (2)

Lab Sample ID: 410-50672-8

Date Collected: 08/09/21 14:50

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 67 (2)

Lab Sample ID: 410-50672-8

Date Collected: 08/09/21 14:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 19:17	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 04:30	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:07	XQY5	ELLE

Client Sample ID: DUP-5

Lab Sample ID: 410-50672-9

Date Collected: 08/10/21 00:00
Matrix: Solid
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: DUP-5

Lab Sample ID: 410-50672-9

Date Collected: 08/10/21 00:00
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 72.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 14:16	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 04:53	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:22	XQY5	ELLE

Client Sample ID: Pipe 19 (2)

Lab Sample ID: 410-50672-10

Date Collected: 08/10/21 09:05
Matrix: Solid
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 19 (2)

Lab Sample ID: 410-50672-10

Date Collected: 08/10/21 09:05
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 19:40	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 05:15	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:26	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: 941-P2 (2)

Lab Sample ID: 410-50672-11

Date Collected: 08/10/21 09:20
Date Received: 08/10/21 16:48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: 941-P2 (2)

Lab Sample ID: 410-50672-11

Date Collected: 08/10/21 09:20
Date Received: 08/10/21 16:48

Matrix: Solid
Percent Solids: 66.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 14:40	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 05:38	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:42	XQY5	ELLE

Client Sample ID: Pipe 18 (2)

Lab Sample ID: 410-50672-12

Date Collected: 08/10/21 09:35
Date Received: 08/10/21 16:48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 18 (2)

Lab Sample ID: 410-50672-12

Date Collected: 08/10/21 09:35
Date Received: 08/10/21 16:48

Matrix: Solid
Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 16:35	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 06:00	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:45	XQY5	ELLE

Client Sample ID: Pipe 23 (2)

Lab Sample ID: 410-50672-13

Date Collected: 08/10/21 09:45
Date Received: 08/10/21 16:48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159245	08/11/21 14:37	X4C8	ELLE

Client Sample ID: Pipe 23 (2)

Lab Sample ID: 410-50672-13

Date Collected: 08/10/21 09:45

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 15:03	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 06:23	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:04	XQY5	ELLE

Client Sample ID: Pipe 24 (2)

Lab Sample ID: 410-50672-14

Date Collected: 08/10/21 09:55

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 24 (2)

Lab Sample ID: 410-50672-14

Date Collected: 08/10/21 09:55

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 72.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 15:26	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 06:45	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:16	XQY5	ELLE

Client Sample ID: Pipe 25 (2)

Lab Sample ID: 410-50672-15

Date Collected: 08/10/21 10:05

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 25 (2)

Lab Sample ID: 410-50672-15

Date Collected: 08/10/21 10:05

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 69.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 15:49	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 07:08	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:01	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50672-16

Date Collected: 08/10/21 10:15
Date Received: 08/10/21 16:48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50672-16

Date Collected: 08/10/21 10:15
Date Received: 08/10/21 16:48

Matrix: Solid
Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 20:03	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 07:30	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:58	XQY5	ELLE

Client Sample ID: Pipe 20 (2)

Lab Sample ID: 410-50672-17

Date Collected: 08/10/21 10:30
Date Received: 08/10/21 16:48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159245	08/11/21 14:37	X4C8	ELLE

Client Sample ID: Pipe 20 (2)

Lab Sample ID: 410-50672-17

Date Collected: 08/10/21 10:30
Date Received: 08/10/21 16:48

Matrix: Solid
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 20:26	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 07:53	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:51	XQY5	ELLE

Client Sample ID: Pipe 21 (2)

Lab Sample ID: 410-50672-18

Date Collected: 08/10/21 10:40
Date Received: 08/10/21 16:48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: Pipe 21 (2)

Lab Sample ID: 410-50672-18

Date Collected: 08/10/21 10:40
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 16:58	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 08:15	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:54	XQY5	ELLE

Client Sample ID: Pipe 22 (2)

Lab Sample ID: 410-50672-19

Date Collected: 08/10/21 10:50
Matrix: Solid
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159620	08/12/21 09:46	UGCW	ELLE

Client Sample ID: Pipe 22 (2)

Lab Sample ID: 410-50672-19

Date Collected: 08/10/21 10:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159133	08/11/21 11:05	JJT8	ELLE
Total/NA	Analysis	8260C		50	160023	08/13/21 16:10	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 08:38	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:20	XQY5	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-50672-20

Date Collected: 08/10/21 00:00
Matrix: Water
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	160096	08/13/21 10:36	UKAD	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-50672-1	Pipe 69 (2)	Solid	08/09/21 13:05	08/10/21 16:48
410-50672-2	Pipe 68 (2)	Solid	08/09/21 13:15	08/10/21 16:48
410-50672-3	Pipe 57 (2)	Solid	08/09/21 13:35	08/10/21 16:48
410-50672-4	Pipe 58 (2)	Solid	08/09/21 13:50	08/10/21 16:48
410-50672-5	Pipe 59 (2)	Solid	08/09/21 14:05	08/10/21 16:48
410-50672-6	Pipe 56 (2)	Solid	08/09/21 14:20	08/10/21 16:48
410-50672-7	Pipe 54 (2)	Solid	08/09/21 14:30	08/10/21 16:48
410-50672-8	Pipe 67 (2)	Solid	08/09/21 14:50	08/10/21 16:48
410-50672-9	DUP-5	Solid	08/10/21 00:00	08/10/21 16:48
410-50672-10	Pipe 19 (2)	Solid	08/10/21 09:05	08/10/21 16:48
410-50672-11	941-P2 (2)	Solid	08/10/21 09:20	08/10/21 16:48
410-50672-12	Pipe 18 (2)	Solid	08/10/21 09:35	08/10/21 16:48
410-50672-13	Pipe 23 (2)	Solid	08/10/21 09:45	08/10/21 16:48
410-50672-14	Pipe 24 (2)	Solid	08/10/21 09:55	08/10/21 16:48
410-50672-15	Pipe 25 (2)	Solid	08/10/21 10:05	08/10/21 16:48
410-50672-16	Pipe 74 (2)	Solid	08/10/21 10:15	08/10/21 16:48
410-50672-17	Pipe 20 (2)	Solid	08/10/21 10:30	08/10/21 16:48
410-50672-18	Pipe 21 (2)	Solid	08/10/21 10:40	08/10/21 16:48
410-50672-19	Pipe 22 (2)	Solid	08/10/21 10:50	08/10/21 16:48
410-50672-20	Trip Blank	Water	08/10/21 00:00	08/10/21 16:48

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-50672 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: IA/SP/DH	Lab PM: Carter, Amek A		COC No: 0-30583-9562.4
Client Contact: Mark Schaeffer	Phone:	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 4 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 5/St Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	A		
Pipe ~~68~~ 69 (2)	8/9/21	1305	G	Solid			X	X			
Pipe 68 (2)	8/9/21	1315	G	Solid			X	X			
Pipe 57 (2)	8/9/21	1335	G	Solid			X	X			
Pipe 58 (2)	8/9/21	1350	G	Solid			X	X			
Pipe 59 (2)	8/9/21	1405	G	Solid			X	X			
Pipe 56 (2)	8/9/21	1420	G	Solid			X	X			
Pipe 54 (2)	8/9/21	1430	G	Solid			X	X			
Pipe 67 (2)	8/9/21	1450	G	Water			X	X			
DUP-5	8/10/21	—	G	Water			X	X			
Pipe 19 (2)	8/10/21	0905	G	Water			X	X			
941-P2 (2)	8/10/21	0920	G	Water			X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 8/10/21 1105	Company: Stantec	Received by: Pierre	Date/Time: 8/10/21 11:05	Company		
Relinquished by: Pierre	Date/Time: 8/10/21 1636	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/10/21 16:40	Company: EAL		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.6-4.1 AR BLEO 8/10/21				

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: TA / DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-31049-9562 1
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran Carter@eurofinset.com	State of Origin: PA	Page: Page 1 of 8
Company: Stantec Consulting Corp	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Loaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Loaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	A		
Pipe 18 (2)	8/10/21	0935	G	Solid		X	X			
Pipe 23 (2)	8/10/21	0945	G	Solid		X	X			
Pipe 24 (2)	8/10/21	0955	G	Solid		X	X			
Pipe 25 (2)	8/10/21	1005	G	Solid		X	X			
Pipe 74 (2)	8/10/21	1015	G	Solid		X	X			
Pipe 20 (2)	8/10/21	1030	G	Solid		X	X			
Pipe 21 (2)	8/10/21	1040	G	Solid		X	X			
Pipe 22 (2)	8/10/21	1050	G	Solid		X	X			
Trip Blank	8/10/21	—	G	Solid				X		
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/10/21 1105	Stantec	[signature]	8/10/21 1105	
2	[signature]	8/10/21 1630		[signature]		
3				[signature]	8/10/21 1604	Eurofins

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.6-4.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-50672-1

Login Number: 50672

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Jeremiah, Cory T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-50879-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/17/2021 2:09:48 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
8/17/2021 2:09:48 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
^c	CCV Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
FL	MS and/or MSD recovery below control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Job ID: 410-50879-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-50879-1

Receipt
The samples were received on 8/11/2021 5:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.7°C and 1.4°C

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 410-160689 recovered above the upper control limit for Bromomethane and Carbon disulfide. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: The following samples were diluted due to the abundance of non-target analytes: 941-P4 (3) (410-50879-2), Pipe 38 (2) (410-50879-13) and Dup-06 (410-50879-26). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: Pipe 34 (2) (410-50879-9). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: Pipe 40 (2) (410-50879-15). Elevated reporting limits (RLs) are provided.

Method 8260C: Internal standard (ISTD) response for t-Butyl alcohol-d10 for the following sample was outside acceptance criteria: Pipe 39 (2) (410-50879-14). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 410-160576 recovered outside acceptance criteria, low biased, for 1,2-Dichloroethane, Methyl tertiary butyl ether and Naphthalene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: 2040-P5 (3) (410-50879-19). The sample(s) was re-analyzed and ISTD response was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: (410-50879-A-1-B MSD). The parent sample's and matrix spike (MS) surrogate recovery was within limits. The MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: 941-P3 (3) — Lab Sample ID: 410-50879-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.81	J	9.4	0.75	ug/Kg	1	☼	8260C	Total/NA
1,2-Dichloroethane	3.9	J ^c	9.4	1.1	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	2.2	J	9.4	0.94	ug/Kg	1	☼	8260C	Total/NA
Toluene	37		9.4	1.1	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	14	J	19	2.6	ug/Kg	1	☼	8260C	Total/NA
Benzene	46		9.4	0.94	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.9	J	9.4	0.94	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	4.7	J F2 FL	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	6.4	J F2 FL	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	8.5	J F2 FL	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	27	F2 FL	22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	12	J F2 FL	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	610		1.5	0.58	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 941-P4 (3) — Lab Sample ID: 410-50879-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	5.9	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.4	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	9.5	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	7.5	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	12	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	23		21	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	8.7	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	270		1.5	0.60	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 941-P5 (3) — Lab Sample ID: 410-50879-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	6.5	J	9.5	1.1	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.3	J	9.5	0.95	ug/Kg	1	☼	8260C	Total/NA
Toluene	30		9.5	1.1	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	8.5	J	19	2.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	38		9.5	0.95	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.4	J	9.5	0.95	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	6.6	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.8	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	11	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	9.3	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	16	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	23		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	12	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	37		1.5	0.62	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 941-P1 (3) — Lab Sample ID: 410-50879-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	4.6	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.0	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.3	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	4.8	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	7.9		1.5	0.60	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: Pipe-32 (2) — Lab Sample ID: 410-50879-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.2	J ^c	9.6	1.1	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.98	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Toluene	3.0	J	9.6	1.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	5.1	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.2	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Anthracene	14	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5.9	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.7	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	6.4	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	8.4	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	7.9	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	100		23	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	6.5	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Lead	95		2.0	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 33 (2) — Lab Sample ID: 410-50879-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.8	J	10	1.2	ug/Kg	1	☼	8260C	Total/NA
Toluene	6.6	J	10	1.2	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.3	J	20	2.8	ug/Kg	1	☼	8260C	Total/NA
Benzene	9.1	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Anthracene	51		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	40		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	29		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	89		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	64		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	65		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	12	J	25	5.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	84		25	6.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	42		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Lead	920		2.1	0.83	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2045-P3 (3) — Lab Sample ID: 410-50879-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.0	J	10	1.2	ug/Kg	1	☼	8260C	Total/NA
Benzene	7.5	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	5.6	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	7.5	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.7	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5.9	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	9.3	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	28		23	5.6	ug/Kg	1	☼	8270D	Total/NA
Lead	14		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2045-P1 (3) — Lab Sample ID: 410-50879-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.73	J	7.5	0.60	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.2	J	7.5	0.90	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.7	J	15	2.1	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: 2045-P1 (3) (Continued) — Lab Sample ID: 410-50879-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
Anthracene	18	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.5	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.3	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.9	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	5.3	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	23		23	5.4	ug/Kg	1	☼	8270D	Total/NA
Lead	100		1.8	0.71	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 34 (2) — Lab Sample ID: 410-50879-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	100	J	1000	83	ug/Kg	100	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	610	J	1000	100	ug/Kg	100	☼	8260C	Total/NA
Xylenes, Total	750	J	2100	290	ug/Kg	100	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1000		1000	100	ug/Kg	100	☼	8260C	Total/NA
Anthracene	100		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	12	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	16	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	130		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	17	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	26		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	27		21	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	36		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Lead	79		1.7	0.67	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 35 (2) — Lab Sample ID: 410-50879-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.4	J ^c	11	1.3	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	3.6	J	11	1.1	ug/Kg	1	☼	8260C	Total/NA
Toluene	4.8	J	11	1.3	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.5	J	22	3.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	7.4	J	11	1.1	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	5.8	J	11	1.1	ug/Kg	1	☼	8260C	Total/NA
Anthracene	9.0	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.1	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	32		23	5.4	ug/Kg	1	☼	8270D	Total/NA
Lead	17		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 36 (2) — Lab Sample ID: 410-50879-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.8	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Anthracene	9.3	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	5.5	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.6	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	25		24	5.7	ug/Kg	1	☼	8270D	Total/NA
Lead	26		1.7	0.68	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: Pipe 37 (2) — Lab Sample ID: 410-50879-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	30		2.3	0.91	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 38 (2) — Lab Sample ID: 410-50879-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	21	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	15	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	22	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	20	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	24	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	29	J	31	7.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	33		31	6.2	ug/Kg	1	☼	8270D	Total/NA
Lead	170		1.9	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 39 (2) — Lab Sample ID: 410-50879-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	14	J	28	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	11	J	28	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	7.7	J	28	6.6	ug/Kg	1	☼	8270D	Total/NA
Lead	64		2.1	0.85	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 40 (2) — Lab Sample ID: 410-50879-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	63	J	710	57	ug/Kg	50	☼	8260C	Total/NA
Toluene	160	J	710	85	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	210	J	1400	200	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	16	J	25	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	9.4	J	25	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	16	J	25	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	16	J	25	4.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	25		25	4.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	87		25	4.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	150		25	5.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120		25	4.9	ug/Kg	1	☼	8270D	Total/NA
Lead	28		1.9	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2040-P2 (3) — Lab Sample ID: 410-50879-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.95	J	7.1	0.86	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.3	J	7.1	0.71	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	7.1	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	8.6	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	8.9	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.5	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	8.1	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	6.0	J	23	5.5	ug/Kg	1	☼	8270D	Total/NA
Lead	1200		1.9	0.75	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: 2040-P3 (3) — Lab Sample ID: 410-50879-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	14	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	40		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	33		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	49		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	28		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	46		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	6.2	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	66		20	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	70		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	13		1.3	0.52	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2040-P4 (3) — Lab Sample ID: 410-50879-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	4.7	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	16	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	16	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	22		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	16	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	27		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	55		20	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	22		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	40		1.2	0.50	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2040-P5 (3) — Lab Sample ID: 410-50879-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	5.1	J	9.4	1.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	4.5	J	9.4	0.94	ug/Kg	1	☼	8260C	Total/NA
Anthracene	22		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	16	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	36		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	19	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	120		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	16	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	120		20	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	41		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	21		1.3	0.54	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 31 (2) — Lab Sample ID: 410-50879-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	14	J	32	6.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	7.6	J	32	7.6	ug/Kg	1	☼	8270D	Total/NA
Lead	31		2.0	0.80	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 26 (2) — Lab Sample ID: 410-50879-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	17	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	12	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	8.9	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 26 (2) (Continued) — Lab Sample ID: 410-50879-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	13	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	12	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	26		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	20	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	32	F2	1.8	0.71	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 4847-P4 (3) — Lab Sample ID: 410-50879-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	5.1	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	3.6		1.4	0.56	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2040-P1 (3) — Lab Sample ID: 410-50879-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	11	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	5.8	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5.6	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	7.9	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.3	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	7.5	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	26		23	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	7.9	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Lead	250		1.7	0.68	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 28 (2) — Lab Sample ID: 410-50879-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.8	J	9.3	1.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.4	J	9.3	0.93	ug/Kg	1	☼	8260C	Total/NA
Lead	14		1.7	0.67	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-50879-25

No Detections.

Client Sample ID: Dup-06 — Lab Sample ID: 410-50879-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	24	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	14	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	26		26	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	17	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	39		26	5.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	100		26	5.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	160		26	6.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	100		26	5.1	ug/Kg	1	☼	8270D	Total/NA
Lead	20		1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 941-P3 (3)

Date Collected: 08/10/21 11:10
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-1

Matrix: Solid
Percent Solids: 74.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**0.81**	**J**	9.4	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
1,2-Dichloroethane	**3.9**	**J ^c**	9.4	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
1,3,5-Trimethylbenzene	**2.2**	**J**	9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
Toluene	**37**		9.4	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
Xylenes, Total	**14**	**J**	19	2.6	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
Methyl tertiary butyl ether	ND	^c	9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
Benzene	**46**		9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
Naphthalene	ND	^c	9.4	3.8	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
1,2,4-Trimethylbenzene	**1.9**	**J**	9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
Isopropylbenzene	ND		9.4	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
1,2-Dibromoethane	ND		9.4	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/12/21 11:20*	*08/15/21 22:03*	*1*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*	*08/12/21 11:20*	*08/15/21 22:03*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/12/21 11:20*	*08/15/21 22:03*	*1*
Toluene-d8 (Surr)	*100*		*52 - 141*	*08/12/21 11:20*	*08/15/21 22:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND	F2 FL	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Benzo[a]anthracene	**4.7**	**J F2 FL**	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Benzo[a]pyrene	ND	F2 FL	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Benzo[b]fluoranthene	**6.4**	**J F2 FL**	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Benzo[g,h,i]perylene	ND	F2 FL	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Chrysene	**8.5**	**J F2 FL**	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Fluorene	ND	F2 FL	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Phenanthrene	**27**	**F2 FL**	22	5.3	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Pyrene	**12**	**J F2 FL**	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*	*08/13/21 10:00*	*08/14/21 00:07*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 10:00*	*08/14/21 00:07*	*1*
p-Terphenyl-d14 (Surr)	*70*		*45 - 108*	*08/13/21 10:00*	*08/14/21 00:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**610**		1.5	0.58	mg/Kg	☼	08/12/21 13:44	08/13/21 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.2**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 941-P4 (3)

Date Collected: 08/10/21 11:20
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-2

Matrix: Solid
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		560	45	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
1,2-Dichloroethane	ND		560	67	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50

Client Sample ID: 941-P4 (3)

Date Collected: 08/10/21 11:20
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-2

Matrix: Solid
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		560	56	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
Toluene	ND		560	67	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
Xylenes, Total	ND		1100	160	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
Methyl tertiary butyl ether	ND		560	56	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
Benzene	ND		560	56	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
Naphthalene	ND		560	220	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
1,2,4-Trimethylbenzene	ND		560	56	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
Isopropylbenzene	ND		560	45	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
1,2-Dibromoethane	ND		560	45	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*54 - 135*	*08/12/21 11:19*	*08/16/21 17:42*	*50*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/12/21 11:19*	*08/16/21 17:42*	*50*
Dibromofluoromethane (Surr)	*83*		*50 - 141*	*08/12/21 11:19*	*08/16/21 17:42*	*50*
Toluene-d8 (Surr)	*81*		*52 - 141*	*08/12/21 11:19*	*08/16/21 17:42*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Benzo[a]anthracene	**5.9**	**J**	21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Benzo[a]pyrene	**6.4**	**J**	21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Benzo[b]fluoranthene	**9.5**	**J**	21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Benzo[g,h,i]perylene	**7.5**	**J**	21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Chrysene	**12**	**J**	21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Fluorene	ND		21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Phenanthrene	**23**		21	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Pyrene	**8.7**	**J**	21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*	*08/13/21 10:00*	*08/14/21 01:14*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/13/21 10:00*	*08/14/21 01:14*	*1*
p-Terphenyl-d14 (Surr)	*74*		*45 - 108*	*08/13/21 10:00*	*08/14/21 01:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**270**		1.5	0.60	mg/Kg	☼	08/12/21 07:35	08/16/21 20:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.2**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 941-P5 (3)

Date Collected: 08/10/21 11:30
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-3

Matrix: Solid
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.5	0.76	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
1,2-Dichloroethane	**6.5**	**J**	9.5	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
1,3,5-Trimethylbenzene	**1.3**	**J**	9.5	0.95	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
Toluene	**30**		9.5	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1

Client Sample ID: 941-P5 (3)

Lab Sample ID: 410-50879-3

Date Collected: 08/10/21 11:30
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**8.5**	**J**	19	2.7	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
Methyl tertiary butyl ether	ND		9.5	0.95	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
Benzene	**38**		9.5	0.95	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
Naphthalene	ND		9.5	3.8	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
1,2,4-Trimethylbenzene	**1.4**	**J**	9.5	0.95	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
Isopropylbenzene	ND		9.5	0.76	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
1,2-Dibromoethane	ND		9.5	0.76	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*	*08/12/21 11:20*	*08/16/21 14:53*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/12/21 11:20*	*08/16/21 14:53*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/16/21 14:53*	*1*
Toluene-d8 (Surr)	*108*		*52 - 141*	*08/12/21 11:20*	*08/16/21 14:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Benzo[a]anthracene	**6.6**	**J**	21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Benzo[a]pyrene	**6.8**	**J**	21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Benzo[b]fluoranthene	**11**	**J**	21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Benzo[g,h,i]perylene	**9.3**	**J**	21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Chrysene	**16**	**J**	21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Phenanthrene	**23**		21	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Pyrene	**12**	**J**	21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*	*08/13/21 10:00*	*08/14/21 01:37*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/13/21 10:00*	*08/14/21 01:37*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/13/21 10:00*	*08/14/21 01:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**37**		1.5	0.62	mg/Kg	☼	08/12/21 07:35	08/16/21 21:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.8**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 941-P1 (3)

Lab Sample ID: 410-50879-4

Date Collected: 08/10/21 11:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 83.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		3.8	0.31	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
1,2-Dichloroethane	ND		3.8	0.46	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
1,3,5-Trimethylbenzene	ND		3.8	0.38	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
Toluene	ND		3.8	0.46	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
Xylenes, Total	ND		7.6	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
Methyl tertiary butyl ether	ND		3.8	0.38	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1

Client Sample ID: 941-P1 (3)

Lab Sample ID: 410-50879-4

Date Collected: 08/10/21 11:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 83.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.8	0.38	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
Naphthalene	ND		3.8	1.5	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
1,2,4-Trimethylbenzene	ND		3.8	0.38	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
Isopropylbenzene	ND		3.8	0.31	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
1,2-Dibromoethane	ND		3.8	0.31	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/12/21 11:20*	*08/16/21 15:15*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/12/21 11:20*	*08/16/21 15:15*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/12/21 11:20*	*08/16/21 15:15*	*1*
Toluene-d8 (Surr)	*100*		*52 - 141*	*08/12/21 11:20*	*08/16/21 15:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Benzo[a]anthracene	**4.6**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Benzo[a]pyrene	**4.0**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Benzo[b]fluoranthene	**5.3**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Benzo[g,h,i]perylene	ND		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Chrysene	**4.8**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Fluorene	ND		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Phenanthrene	ND		20	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Pyrene	ND		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/13/21 10:00*	*08/14/21 02:00*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/13/21 10:00*	*08/14/21 02:00*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/13/21 10:00*	*08/14/21 02:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**7.9**		1.5	0.60	mg/Kg	☼	08/12/21 07:35	08/16/21 20:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.7**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe-32 (2)

Lab Sample ID: 410-50879-5

Date Collected: 08/10/21 12:05
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 70.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	0.77	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
1,2-Dichloroethane	**1.2**	**J ^c**	9.6	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
1,3,5-Trimethylbenzene	**0.98**	**J**	9.6	0.96	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
Toluene	**3.0**	**J**	9.6	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
Xylenes, Total	ND		19	2.7	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
Methyl tertiary butyl ether	ND	^c	9.6	0.96	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
Benzene	**5.1**	**J**	9.6	0.96	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
Naphthalene	ND	^c	9.6	3.8	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1

Client Sample ID: Pipe-32 (2)

Lab Sample ID: 410-50879-5

Date Collected: 08/10/21 12:05
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 70.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**1.2**	**J**	9.6	0.96	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
Isopropylbenzene	ND		9.6	0.77	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
1,2-Dibromoethane	ND		9.6	0.77	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/12/21 11:20*	*08/15/21 23:56*	*1*
4-Bromofluorobenzene (Surr)	*79*		*50 - 131*	*08/12/21 11:20*	*08/15/21 23:56*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/12/21 11:20*	*08/15/21 23:56*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/12/21 11:20*	*08/15/21 23:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**14**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Benzo[a]anthracene	ND		23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Benzo[a]pyrene	**5.9**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Benzo[b]fluoranthene	**5.7**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Benzo[g,h,i]perylene	**6.4**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Chrysene	**8.4**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Fluorene	**7.9**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Phenanthrene	**100**		23	5.6	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Pyrene	**6.5**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*39 - 100*	*08/13/21 10:00*	*08/14/21 02:22*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 10:00*	*08/14/21 02:22*	*1*
p-Terphenyl-d14 (Surr)	*70*		*45 - 108*	*08/13/21 10:00*	*08/14/21 02:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**95**		2.0	0.78	mg/Kg	☼	08/12/21 07:35	08/16/21 20:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.7**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 33 (2)

Lab Sample ID: 410-50879-6

Date Collected: 08/10/21 12:15
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 66.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.80	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
1,2-Dichloroethane	**1.8**	**J**	10	1.2	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
Toluene	**6.6**	**J**	10	1.2	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
Xylenes, Total	**3.3**	**J**	20	2.8	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
Methyl tertiary butyl ether	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
Benzene	**9.1**	**J**	10	1.0	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
Naphthalene	ND		10	4.0	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
1,2,4-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
Isopropylbenzene	ND		10	0.80	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1

Client Sample ID: Pipe 33 (2)

Lab Sample ID: 410-50879-6

Date Collected: 08/10/21 12:15
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 66.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		10	0.80	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/12/21 11:20*	*08/16/21 15:38*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*08/12/21 11:20*	*08/16/21 15:38*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/12/21 11:20*	*08/16/21 15:38*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/12/21 11:20*	*08/16/21 15:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**51**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Benzo[a]anthracene	**40**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Benzo[a]pyrene	**29**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Benzo[b]fluoranthene	**89**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Benzo[g,h,i]perylene	**64**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Chrysene	**65**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Fluorene	**12**	**J**	25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Phenanthrene	**84**		25	6.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Pyrene	**42**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*	*08/13/21 10:00*	*08/14/21 02:44*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/13/21 10:00*	*08/14/21 02:44*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/13/21 10:00*	*08/14/21 02:44*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**920**		2.1	0.83	mg/Kg	☼	08/12/21 13:44	08/13/21 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**33.9**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 2045-P3 (3)

Lab Sample ID: 410-50879-7

Date Collected: 08/10/21 12:25
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 71.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.82	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
1,2-Dichloroethane	ND	^c	10	1.2	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
Toluene	**2.0**	**J**	10	1.2	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
Xylenes, Total	ND		20	2.9	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
Methyl tertiary butyl ether	ND	^c	10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
Benzene	**7.5**	**J**	10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
Naphthalene	ND	^c	10	4.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
1,2,4-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
Isopropylbenzene	ND		10	0.82	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
1,2-Dibromoethane	ND		10	0.82	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1

Client Sample ID: 2045-P3 (3)

Lab Sample ID: 410-50879-7

Date Collected: 08/10/21 12:25
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 71.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/12/21 11:20*	*08/15/21 20:10*	*1*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/12/21 11:20*	*08/15/21 20:10*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/12/21 11:20*	*08/15/21 20:10*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/12/21 11:20*	*08/15/21 20:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Benzo[a]anthracene	**5.6**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Benzo[a]pyrene	**7.5**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Benzo[b]fluoranthene	**5.7**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Benzo[g,h,i]perylene	**5.9**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Chrysene	**9.3**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Fluorene	ND		23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Phenanthrene	**28**		23	5.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Pyrene	ND		23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*	*08/13/21 10:00*	*08/14/21 03:07*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/13/21 10:00*	*08/14/21 03:07*	*1*
p-Terphenyl-d14 (Surr)	*75*		*45 - 108*	*08/13/21 10:00*	*08/14/21 03:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		1.4	0.57	mg/Kg	☼	08/12/21 07:35	08/16/21 20:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.4**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 2045-P1 (3)

Lab Sample ID: 410-50879-8

Date Collected: 08/10/21 12:35
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 72.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**0.73**	**J**	7.5	0.60	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
1,2-Dichloroethane	ND	^c	7.5	0.90	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
1,3,5-Trimethylbenzene	ND		7.5	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
Toluene	**1.2**	**J**	7.5	0.90	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
Xylenes, Total	**2.7**	**J**	15	2.1	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
Methyl tertiary butyl ether	ND	^c	7.5	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
Benzene	**11**		7.5	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
Naphthalene	ND	^c	7.5	3.0	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
1,2,4-Trimethylbenzene	ND		7.5	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
Isopropylbenzene	ND		7.5	0.60	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
1,2-Dibromoethane	ND		7.5	0.60	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/12/21 11:20*	*08/15/21 21:40*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/12/21 11:20*	*08/15/21 21:40*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/12/21 11:20*	*08/15/21 21:40*	*1*

Client Sample ID: 2045-P1 (3)

Lab Sample ID: 410-50879-8

Date Collected: 08/10/21 12:35
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 72.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/12/21 11:20*	*08/15/21 21:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**18**	**J**	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Benzo[a]anthracene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Benzo[a]pyrene	**4.5**	**J**	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Benzo[b]fluoranthene	**5.3**	**J**	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Benzo[g,h,i]perylene	**8.9**	**J**	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Chrysene	**5.3**	**J**	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Fluorene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Phenanthrene	**23**		23	5.4	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Pyrene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*	*08/13/21 10:00*	*08/14/21 03:29*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 10:00*	*08/14/21 03:29*	*1*
p-Terphenyl-d14 (Surr)	*67*		*45 - 108*	*08/13/21 10:00*	*08/14/21 03:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**100**		1.8	0.71	mg/Kg	☼	08/12/21 07:35	08/16/21 20:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.3**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 34 (2)

Lab Sample ID: 410-50879-9

Date Collected: 08/10/21 12:55
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 77.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**100**	**J**	1000	83	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
1,2-Dichloroethane	ND		1000	120	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
1,3,5-Trimethylbenzene	**610**	**J**	1000	100	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
Toluene	ND		1000	120	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
Xylenes, Total	**750**	**J**	2100	290	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
Methyl tertiary butyl ether	ND		1000	100	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
Benzene	ND		1000	100	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
Naphthalene	ND		1000	410	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
1,2,4-Trimethylbenzene	**1000**		1000	100	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
Isopropylbenzene	ND		1000	83	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
1,2-Dibromoethane	ND		1000	83	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*54 - 135*	*08/12/21 11:19*	*08/16/21 18:03*	*100*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/12/21 11:19*	*08/16/21 18:03*	*100*
Dibromofluoromethane (Surr)	*88*		*50 - 141*	*08/12/21 11:19*	*08/16/21 18:03*	*100*
Toluene-d8 (Surr)	*83*		*52 - 141*	*08/12/21 11:19*	*08/16/21 18:03*	*100*

Client Sample ID: Pipe 34 (2)

Lab Sample ID: 410-50879-9

Date Collected: 08/10/21 12:55
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 77.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	100		21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Benzo[a]anthracene	12	J	21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Benzo[a]pyrene	16	J	21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Benzo[b]fluoranthene	14	J	21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Benzo[g,h,i]perylene	130		21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Chrysene	17	J	21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Fluorene	26		21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Phenanthrene	27		21	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Pyrene	36		21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*39 - 100*	*08/13/21 10:00*	*08/14/21 03:52*	*1*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*	*08/13/21 10:00*	*08/14/21 03:52*	*1*
p-Terphenyl-d14 (Surr)	*74*		*45 - 108*	*08/13/21 10:00*	*08/14/21 03:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	79		1.7	0.67	mg/Kg	☼	08/12/21 07:35	08/16/21 20:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.2		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 35 (2)

Lab Sample ID: 410-50879-10

Date Collected: 08/10/21 13:10
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 72.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
1,2-Dichloroethane	1.4	J ^c	11	1.3	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
1,3,5-Trimethylbenzene	3.6	J	11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
Toluene	4.8	J	11	1.3	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
Xylenes, Total	3.5	J	22	3.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
Methyl tertiary butyl ether	ND	^c	11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
Benzene	7.4	J	11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
Naphthalene	ND	^c	11	4.4	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
1,2,4-Trimethylbenzene	5.8	J	11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
Isopropylbenzene	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
1,2-Dibromoethane	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/12/21 11:20*	*08/15/21 22:48*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/12/21 11:20*	*08/15/21 22:48*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/12/21 11:20*	*08/15/21 22:48*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/12/21 11:20*	*08/15/21 22:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	9.0	J	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Benzo[a]anthracene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1

Client Sample ID: Pipe 35 (2)

Lab Sample ID: 410-50879-10

Date Collected: 08/10/21 13:10

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 72.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**6.1**	**J**	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Benzo[b]fluoranthene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Benzo[g,h,i]perylene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Chrysene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Fluorene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Phenanthrene	**32**		23	5.4	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Pyrene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*	*08/13/21 10:00*	*08/14/21 04:14*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/13/21 10:00*	*08/14/21 04:14*	*1*
p-Terphenyl-d14 (Surr)	*71*		*45 - 108*	*08/13/21 10:00*	*08/14/21 04:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**17**		1.4	0.57	mg/Kg	☼	08/12/21 07:35	08/16/21 20:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.3**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 36 (2)

Lab Sample ID: 410-50879-11

Date Collected: 08/10/21 13:45

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 69.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.81	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
1,2-Dichloroethane	ND	^c	10	1.2	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
Toluene	ND		10	1.2	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
Xylenes, Total	ND		20	2.8	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
Methyl tertiary butyl ether	ND	^c	10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
Benzene	**1.8**	**J**	10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
Naphthalene	ND	^c	10	4.1	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
1,2,4-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
Isopropylbenzene	ND		10	0.81	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
1,2-Dibromoethane	ND		10	0.81	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*54 - 135*	*08/12/21 11:20*	*08/15/21 23:11*	*1*
4-Bromofluorobenzene (Surr)	*80*		*50 - 131*	*08/12/21 11:20*	*08/15/21 23:11*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/12/21 11:20*	*08/15/21 23:11*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/12/21 11:20*	*08/15/21 23:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**9.3**	**J**	24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Benzo[a]anthracene	**5.5**	**J**	24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Benzo[a]pyrene	ND		24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Benzo[b]fluoranthene	**5.6**	**J**	24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1

Client Sample ID: Pipe 36 (2)

Lab Sample ID: 410-50879-11

Date Collected: 08/10/21 13:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 69.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Chrysene	ND		24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Fluorene	ND		24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Phenanthrene	**25**		24	5.7	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Pyrene	ND		24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*39 - 100*	*08/13/21 10:00*	*08/14/21 04:37*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 10:00*	*08/14/21 04:37*	*1*
p-Terphenyl-d14 (Surr)	*77*		*45 - 108*	*08/13/21 10:00*	*08/14/21 04:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**26**		1.7	0.68	mg/Kg	☼	08/12/21 07:35	08/16/21 20:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.8**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 37 (2)

Lab Sample ID: 410-50879-12

Date Collected: 08/10/21 13:55
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 53.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
1,2-Dichloroethane	ND	^c	11	1.3	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
1,3,5-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
Toluene	ND		11	1.3	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
Xylenes, Total	ND		22	3.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
Methyl tertiary butyl ether	ND	^c	11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
Benzene	ND		11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
Naphthalene	ND	^c	11	4.4	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
1,2,4-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
Isopropylbenzene	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
1,2-Dibromoethane	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*54 - 135*	*08/12/21 11:20*	*08/15/21 20:32*	*1*
4-Bromofluorobenzene (Surr)	*85*		*50 - 131*	*08/12/21 11:20*	*08/15/21 20:32*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/15/21 20:32*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/12/21 11:20*	*08/15/21 20:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Benzo[a]anthracene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Benzo[a]pyrene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Benzo[b]fluoranthene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Benzo[g,h,i]perylene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Chrysene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1

Client Sample ID: Pipe 37 (2)

Lab Sample ID: 410-50879-12

Date Collected: 08/10/21 13:55
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 53.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Phenanthrene	ND		31	7.4	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Pyrene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*39 - 100*	*08/13/21 10:00*	*08/14/21 05:00*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/13/21 10:00*	*08/14/21 05:00*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/13/21 10:00*	*08/14/21 05:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**30**		2.3	0.91	mg/Kg	☼	08/12/21 07:35	08/16/21 21:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**46.4**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 38 (2)

Lab Sample ID: 410-50879-13

Date Collected: 08/10/21 14:05
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 53.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		800	64	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
1,2-Dichloroethane	ND		800	96	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
1,3,5-Trimethylbenzene	ND		800	80	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
Toluene	ND		800	96	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
Xylenes, Total	ND		1600	220	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
Methyl tertiary butyl ether	ND		800	80	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
Benzene	ND		800	80	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
Naphthalene	ND		800	320	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
1,2,4-Trimethylbenzene	ND		800	80	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
Isopropylbenzene	ND		800	64	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
1,2-Dibromoethane	ND		800	64	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*58*		*54 - 135*	*08/12/21 11:19*	*08/16/21 18:23*	*50*
4-Bromofluorobenzene (Surr)	*73*		*50 - 131*	*08/12/21 11:19*	*08/16/21 18:23*	*50*
Dibromofluoromethane (Surr)	*47*	*S1-*	*50 - 141*	*08/12/21 11:19*	*08/16/21 18:23*	*50*
Toluene-d8 (Surr)	*42*	*S1-*	*52 - 141*	*08/12/21 11:19*	*08/16/21 18:23*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**21**	**J**	31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Benzo[a]anthracene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Benzo[a]pyrene	**15**	**J**	31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Benzo[b]fluoranthene	**22**	**J**	31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Benzo[g,h,i]perylene	**20**	**J**	31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Chrysene	**24**	**J**	31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Fluorene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Phenanthrene	**29**	**J**	31	7.4	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1

Client Sample ID: Pipe 38 (2)

Lab Sample ID: 410-50879-13

Date Collected: 08/10/21 14:05
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 53.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**33**		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*39 - 100*	*08/13/21 10:00*	*08/14/21 05:22*	*1*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*	*08/13/21 10:00*	*08/14/21 05:22*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*	*08/13/21 10:00*	*08/14/21 05:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**170**		1.9	0.78	mg/Kg	☼	08/12/21 07:35	08/16/21 20:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**46.2**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 39 (2)

Lab Sample ID: 410-50879-14

Date Collected: 08/10/21 14:20
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 59.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
1,2-Dichloroethane	ND	^c	11	1.3	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
1,3,5-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
Toluene	ND		11	1.3	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
Xylenes, Total	ND		22	3.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
Methyl tertiary butyl ether	ND	^c	11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
Benzene	ND		11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
Naphthalene	ND	^c	11	4.4	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
1,2,4-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
Isopropylbenzene	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
1,2-Dibromoethane	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*54 - 135*	*08/12/21 11:20*	*08/15/21 20:55*	*1*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/12/21 11:20*	*08/15/21 20:55*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/15/21 20:55*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/12/21 11:20*	*08/15/21 20:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**14**	**J**	28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Benzo[a]anthracene	ND		28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Benzo[a]pyrene	ND		28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Benzo[b]fluoranthene	ND		28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Benzo[g,h,i]perylene	**11**	**J**	28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Chrysene	ND		28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Fluorene	ND		28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Phenanthrene	**7.7**	**J**	28	6.6	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Pyrene	ND		28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1

Client Sample ID: Pipe 39 (2)

Lab Sample ID: 410-50879-14

Date Collected: 08/10/21 14:20

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 59.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*39 - 100*	*08/13/21 10:00*	*08/14/21 05:45*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/13/21 10:00*	*08/14/21 05:45*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/13/21 10:00*	*08/14/21 05:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**64**		2.1	0.85	mg/Kg	☼	08/12/21 07:35	08/16/21 20:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**40.4**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 40 (2)

Lab Sample ID: 410-50879-15

Date Collected: 08/10/21 14:35

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 66.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**63**	**J**	710	57	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
1,2-Dichloroethane	ND		710	85	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
1,3,5-Trimethylbenzene	ND		710	71	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
Toluene	**160**	**J**	710	85	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
Xylenes, Total	**210**	**J**	1400	200	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
Methyl tertiary butyl ether	ND		710	71	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
Benzene	ND		710	71	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
Naphthalene	ND		710	280	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
1,2,4-Trimethylbenzene	ND		710	71	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
Isopropylbenzene	ND		710	57	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
1,2-Dibromoethane	ND		710	57	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*	*08/12/21 11:19*	*08/17/21 11:41*	*50*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/12/21 11:19*	*08/17/21 11:41*	*50*
Dibromofluoromethane (Surr)	*95*		*50 - 141*	*08/12/21 11:19*	*08/17/21 11:41*	*50*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/12/21 11:19*	*08/17/21 11:41*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Benzo[a]anthracene	**16**	**J**	25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Benzo[a]pyrene	**9.4**	**J**	25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Benzo[b]fluoranthene	**16**	**J**	25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Benzo[g,h,i]perylene	**16**	**J**	25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Chrysene	**25**		25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Fluorene	**87**		25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Phenanthrene	**150**		25	5.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Pyrene	**120**		25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*39 - 100*	*08/13/21 10:00*	*08/14/21 06:07*	*1*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*	*08/13/21 10:00*	*08/14/21 06:07*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/13/21 10:00*	*08/14/21 06:07*	*1*

Client Sample ID: Pipe 40 (2)

Lab Sample ID: 410-50879-15
Date Collected: 08/10/21 14:35
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 66.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**28**		1.9	0.74	mg/Kg	☼	08/12/21 07:35	08/16/21 21:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**33.1**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 2040-P2 (3)

Lab Sample ID: 410-50879-16
Date Collected: 08/11/21 08:25
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 71.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.1	0.57	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
1,2-Dichloroethane	ND		7.1	0.86	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
1,3,5-Trimethylbenzene	ND		7.1	0.71	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
Toluene	**0.95**	**J**	7.1	0.86	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
Xylenes, Total	ND		14	2.0	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
Methyl tertiary butyl ether	ND		7.1	0.71	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
Benzene	**1.3**	**J**	7.1	0.71	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
Naphthalene	ND		7.1	2.9	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
1,2,4-Trimethylbenzene	ND		7.1	0.71	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
Isopropylbenzene	ND		7.1	0.57	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
1,2-Dibromoethane	ND		7.1	0.57	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*08/12/21 11:20*	*08/16/21 17:11*	*1*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*	*08/12/21 11:20*	*08/16/21 17:11*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/16/21 17:11*	*1*
Toluene-d8 (Surr)	*108*		*52 - 141*	*08/12/21 11:20*	*08/16/21 17:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Benzo[a]anthracene	**7.1**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Benzo[a]pyrene	**8.6**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Benzo[b]fluoranthene	**8.9**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Benzo[g,h,i]perylene	**8.5**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Chrysene	**8.1**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Fluorene	ND		23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Phenanthrene	**6.0**	**J**	23	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Pyrene	ND		23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*39 - 100*	*08/13/21 10:00*	*08/14/21 06:30*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/13/21 10:00*	*08/14/21 06:30*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/13/21 10:00*	*08/14/21 06:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1200**		1.9	0.75	mg/Kg	☼	08/12/21 07:35	08/16/21 20:23	1

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: 2040-P2 (3)

Date Collected: 08/11/21 08:25
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-16

Matrix: Solid
Percent Solids: 71.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.8		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 2040-P3 (3)

Date Collected: 08/11/21 08:35
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-17

Matrix: Solid
Percent Solids: 83.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.2	0.42	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
1,2-Dichloroethane	ND		5.2	0.62	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
1,3,5-Trimethylbenzene	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
Toluene	ND		5.2	0.62	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
Xylenes, Total	ND		10	1.5	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
Methyl tertiary butyl ether	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
Benzene	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
Naphthalene	ND		5.2	2.1	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
1,2,4-Trimethylbenzene	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
Isopropylbenzene	ND		5.2	0.42	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
1,2-Dibromoethane	ND		5.2	0.42	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*08/12/21 11:20*	*08/16/21 18:20*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/12/21 11:20*	*08/16/21 18:20*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/12/21 11:20*	*08/16/21 18:20*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/12/21 11:20*	*08/16/21 18:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	14	J	20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Benzo[a]anthracene	40		20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Benzo[a]pyrene	33		20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Benzo[b]fluoranthene	49		20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Benzo[g,h,i]perylene	28		20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Chrysene	46		20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Fluorene	6.2	J	20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Phenanthrene	66		20	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Pyrene	70		20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*39 - 100*	*08/13/21 10:00*	*08/14/21 06:52*	*1*
Nitrobenzene-d5 (Surr)	*56*		*32 - 97*	*08/13/21 10:00*	*08/14/21 06:52*	*1*
p-Terphenyl-d14 (Surr)	*60*		*45 - 108*	*08/13/21 10:00*	*08/14/21 06:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		1.3	0.52	mg/Kg	☼	08/12/21 07:35	08/16/21 20:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.5		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 2040-P4 (3)

Lab Sample ID: 410-50879-18

Date Collected: 08/11/21 08:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 84.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.1	0.41	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
1,2-Dichloroethane	ND		5.1	0.61	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
1,3,5-Trimethylbenzene	ND		5.1	0.51	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
Toluene	ND		5.1	0.61	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
Xylenes, Total	ND		10	1.4	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
Methyl tertiary butyl ether	ND		5.1	0.51	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
Benzene	ND		5.1	0.51	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
Naphthalene	ND		5.1	2.0	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
1,2,4-Trimethylbenzene	ND		5.1	0.51	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
Isopropylbenzene	ND		5.1	0.41	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
1,2-Dibromoethane	ND		5.1	0.41	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/12/21 11:20*	*08/16/21 18:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/12/21 11:20*	*08/16/21 18:43*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/16/21 18:43*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/12/21 11:20*	*08/16/21 18:43*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**4.7**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Benzo[a]anthracene	**16**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Benzo[a]pyrene	**16**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Benzo[b]fluoranthene	**22**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Benzo[g,h,i]perylene	**16**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Chrysene	**27**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Fluorene	ND		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Phenanthrene	**55**		20	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Pyrene	**22**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*39 - 100*	*08/13/21 10:00*	*08/14/21 07:15*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*08/13/21 10:00*	*08/14/21 07:15*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*08/13/21 10:00*	*08/14/21 07:15*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**40**		1.2	0.50	mg/Kg	☼	08/12/21 13:44	08/13/21 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.0**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 2040-P5 (3)

Lab Sample ID: 410-50879-19

Date Collected: 08/11/21 09:10
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 85.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.4	0.76	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
1,2-Dichloroethane	ND		9.4	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1

Client Sample ID: 2040-P5 (3)

Lab Sample ID: 410-50879-19

Date Collected: 08/11/21 09:10
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 85.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND	*3	9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
Toluene	**5.1**	**J**	9.4	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
Xylenes, Total	ND		19	2.6	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
Methyl tertiary butyl ether	ND		9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
Benzene	**4.5**	**J**	9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
Naphthalene	ND	*3	9.4	3.8	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
1,2,4-Trimethylbenzene	ND	*3	9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
Isopropylbenzene	ND		9.4	0.76	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
1,2-Dibromoethane	ND		9.4	0.76	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/12/21 11:20*	*08/16/21 21:48*	*1*
4-Bromofluorobenzene (Surr)	*74*		*50 - 131*	*08/12/21 11:20*	*08/16/21 21:48*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*08/12/21 11:20*	*08/16/21 21:48*	*1*
Toluene-d8 (Surr)	*121*		*52 - 141*	*08/12/21 11:20*	*08/16/21 21:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**22**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Benzo[a]anthracene	**26**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Benzo[a]pyrene	**16**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Benzo[b]fluoranthene	**36**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Benzo[g,h,i]perylene	**19**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Chrysene	**120**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Fluorene	**16**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Phenanthrene	**120**		20	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Pyrene	**41**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*	*08/13/21 10:00*	*08/14/21 07:38*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*08/13/21 10:00*	*08/14/21 07:38*	*1*
p-Terphenyl-d14 (Surr)	*77*		*45 - 108*	*08/13/21 10:00*	*08/14/21 07:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**21**		1.3	0.54	mg/Kg	☼	08/12/21 07:35	08/16/21 20:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.0**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 31 (2)

Lab Sample ID: 410-50879-20

Date Collected: 08/11/21 09:25
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 52.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
1,2-Dichloroethane	ND		9.9	1.2	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
1,3,5-Trimethylbenzene	ND		9.9	0.99	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
Toluene	ND		9.9	1.2	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1

Client Sample ID: Pipe 31 (2)

Lab Sample ID: 410-50879-20

Date Collected: 08/11/21 09:25
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 52.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		20	2.8	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
Methyl tertiary butyl ether	ND		9.9	0.99	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
Benzene	ND		9.9	0.99	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
Naphthalene	ND		9.9	4.0	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
1,2,4-Trimethylbenzene	ND		9.9	0.99	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
Isopropylbenzene	ND		9.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
1,2-Dibromoethane	ND		9.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*08/12/21 11:20*	*08/16/21 16:02*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*	*08/12/21 11:20*	*08/16/21 16:02*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 141*	*08/12/21 11:20*	*08/16/21 16:02*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/12/21 11:20*	*08/16/21 16:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**14**	**J**	32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Benzo[a]anthracene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Benzo[a]pyrene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Benzo[b]fluoranthene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Benzo[g,h,i]perylene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Chrysene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Fluorene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Phenanthrene	**7.6**	**J**	32	7.6	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Pyrene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*39 - 100*	*08/13/21 09:45*	*08/16/21 11:19*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 09:45*	*08/16/21 11:19*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/13/21 09:45*	*08/16/21 11:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**31**		2.0	0.80	mg/Kg	☼	08/12/21 13:44	08/13/21 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**47.9**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 26 (2)

Lab Sample ID: 410-50879-21

Date Collected: 08/11/21 09:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 74.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.9	0.63	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
1,2-Dichloroethane	ND		7.9	0.95	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
1,3,5-Trimethylbenzene	ND		7.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
Toluene	ND		7.9	0.95	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
Xylenes, Total	ND		16	2.2	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
Methyl tertiary butyl ether	ND		7.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1

Client Sample ID: Pipe 26 (2)

Lab Sample ID: 410-50879-21

Date Collected: 08/11/21 09:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 74.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		7.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
Naphthalene	ND		7.9	3.2	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
1,2,4-Trimethylbenzene	ND		7.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
Isopropylbenzene	ND		7.9	0.63	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
1,2-Dibromoethane	ND		7.9	0.63	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/12/21 11:20*	*08/16/21 16:25*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*08/12/21 11:20*	*08/16/21 16:25*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/16/21 16:25*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/12/21 11:20*	*08/16/21 16:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**17**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Benzo[a]anthracene	**12**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Benzo[a]pyrene	**8.9**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Benzo[b]fluoranthene	**13**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Benzo[g,h,i]perylene	**12**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Chrysene	**13**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Fluorene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Phenanthrene	**26**		22	5.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Pyrene	**20**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*08/13/21 09:45*	*08/16/21 11:41*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/13/21 09:45*	*08/16/21 11:41*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*08/13/21 09:45*	*08/16/21 11:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**32**	**F2**	1.8	0.71	mg/Kg	☼	08/12/21 07:35	08/16/21 19:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.7**		1.0	1.0	%			08/12/21 09:02	1

Client Sample ID: 4847-P4 (3)

Lab Sample ID: 410-50879-22

Date Collected: 08/11/21 11:00
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 76.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.2	0.41	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
1,2-Dichloroethane	ND		5.2	0.62	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
1,3,5-Trimethylbenzene	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
Toluene	ND		5.2	0.62	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
Xylenes, Total	ND		10	1.4	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
Methyl tertiary butyl ether	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
Benzene	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
Naphthalene	ND		5.2	2.1	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1

Client Sample ID: 4847-P4 (3)

Date Collected: 08/11/21 11:00
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-22

Matrix: Solid
Percent Solids: 76.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
Isopropylbenzene	ND		5.2	0.41	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
1,2-Dibromoethane	ND		5.2	0.41	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/12/21 11:20*	*08/16/21 19:06*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/12/21 11:20*	*08/16/21 19:06*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/16/21 19:06*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/12/21 11:20*	*08/16/21 19:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Benzo[a]anthracene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Benzo[a]pyrene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Benzo[b]fluoranthene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Benzo[g,h,i]perylene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Chrysene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Fluorene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Phenanthrene	ND		22	5.2	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Pyrene	**5.1**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/13/21 09:45*	*08/16/21 12:03*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/13/21 09:45*	*08/16/21 12:03*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*08/13/21 09:45*	*08/16/21 12:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**3.6**		1.4	0.56	mg/Kg	☼	08/12/21 07:35	08/16/21 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.9**		1.0	1.0	%			08/12/21 09:02	1

Client Sample ID: 2040-P1 (3)

Date Collected: 08/11/21 11:30
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-23

Matrix: Solid
Percent Solids: 71.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.6	0.68	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
1,2-Dichloroethane	ND		8.6	1.0	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
1,3,5-Trimethylbenzene	ND		8.6	0.86	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
Toluene	ND		8.6	1.0	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
Xylenes, Total	ND		17	2.4	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
Methyl tertiary butyl ether	ND		8.6	0.86	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
Benzene	ND		8.6	0.86	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
Naphthalene	ND		8.6	3.4	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
1,2,4-Trimethylbenzene	ND		8.6	0.86	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
Isopropylbenzene	ND		8.6	0.68	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1

Client Sample ID: 2040-P1 (3)

Lab Sample ID: 410-50879-23

Date Collected: 08/11/21 11:30
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 71.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		8.6	0.68	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*	*08/12/21 11:20*	*08/16/21 17:34*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/12/21 11:20*	*08/16/21 17:34*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/12/21 11:20*	*08/16/21 17:34*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/12/21 11:20*	*08/16/21 17:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**11**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Benzo[a]anthracene	**5.8**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Benzo[a]pyrene	**5.6**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Benzo[b]fluoranthene	**7.9**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Benzo[g,h,i]perylene	**8.3**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Chrysene	**7.5**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Fluorene	ND		23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Phenanthrene	**26**		23	5.6	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Pyrene	**7.9**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*39 - 100*	*08/13/21 09:45*	*08/16/21 12:26*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 09:45*	*08/16/21 12:26*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/13/21 09:45*	*08/16/21 12:26*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**250**		1.7	0.68	mg/Kg	☼	08/12/21 07:35	08/16/21 20:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.5**		1.0	1.0	%			08/12/21 09:02	1

Client Sample ID: Pipe 28 (2)

Lab Sample ID: 410-50879-24

Date Collected: 08/11/21 11:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 73.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.3	0.74	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
1,2-Dichloroethane	ND		9.3	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
1,3,5-Trimethylbenzene	ND		9.3	0.93	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
Toluene	**2.8**	**J**	9.3	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
Xylenes, Total	ND		19	2.6	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
Methyl tertiary butyl ether	ND		9.3	0.93	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
Benzene	**1.4**	**J**	9.3	0.93	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
Naphthalene	ND		9.3	3.7	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
1,2,4-Trimethylbenzene	ND		9.3	0.93	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
Isopropylbenzene	ND		9.3	0.74	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
1,2-Dibromoethane	ND		9.3	0.74	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1

Client Sample ID: Pipe 28 (2)

Lab Sample ID: 410-50879-24

Date Collected: 08/11/21 11:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 73.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*54 - 135*	*08/12/21 11:20*	*08/16/21 19:30*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/12/21 11:20*	*08/16/21 19:30*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/12/21 11:20*	*08/16/21 19:30*	*1*
Toluene-d8 (Surr)	*104*		*52 - 141*	*08/12/21 11:20*	*08/16/21 19:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Benzo[a]anthracene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Benzo[a]pyrene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Benzo[b]fluoranthene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Benzo[g,h,i]perylene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Chrysene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Fluorene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Phenanthrene	ND		22	5.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Pyrene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*39 - 100*	*08/13/21 09:45*	*08/16/21 12:48*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/13/21 09:45*	*08/16/21 12:48*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/13/21 09:45*	*08/16/21 12:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		1.7	0.67	mg/Kg	☼	08/12/21 13:44	08/13/21 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.2		1.0	1.0	%			08/12/21 09:02	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-50879-25

Date Collected: 08/11/21 00:00
Matrix: Water
Date Received: 08/11/21 17:52

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/13/21 11:00	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/13/21 11:00	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/13/21 11:00	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/13/21 11:00	1
Toluene	ND		1.0	0.30	ug/L			08/13/21 11:00	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/13/21 11:00	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/13/21 11:00	1
Benzene	ND		1.0	0.30	ug/L			08/13/21 11:00	1
Naphthalene	ND		5.0	1.0	ug/L			08/13/21 11:00	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/13/21 11:00	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/13/21 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*08/13/21 11:00*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/13/21 11:00*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/13/21 11:00*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 410-50879-25

Date Collected: 08/11/21 00:00

Matrix: Water

Date Received: 08/11/21 17:52

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/13/21 11:00*	*1*

Client Sample ID: Dup-06

Lab Sample ID: 410-50879-26

Date Collected: 08/10/21 00:00

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 64.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		590	48	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
1,2-Dichloroethane	ND		590	71	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
1,3,5-Trimethylbenzene	ND		590	59	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
Toluene	ND		590	71	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
Xylenes, Total	ND		1200	170	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
Methyl tertiary butyl ether	ND		590	59	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
Benzene	ND		590	59	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
Naphthalene	ND		590	240	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
1,2,4-Trimethylbenzene	ND		590	59	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
Isopropylbenzene	ND		590	48	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
1,2-Dibromoethane	ND		590	48	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*	*08/12/21 11:19*	*08/16/21 18:44*	*50*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/12/21 11:19*	*08/16/21 18:44*	*50*
Dibromofluoromethane (Surr)	*96*		*50 - 141*	*08/12/21 11:19*	*08/16/21 18:44*	*50*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/12/21 11:19*	*08/16/21 18:44*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Benzo[a]anthracene	**24**	**J**	26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Benzo[a]pyrene	**14**	**J**	26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Benzo[b]fluoranthene	**26**		26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Benzo[g,h,i]perylene	**17**	**J**	26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Chrysene	**39**		26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Fluorene	**100**		26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Phenanthrene	**160**		26	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Pyrene	**100**		26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*69*		*39 - 100*	*08/13/21 10:00*	*08/14/21 08:00*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/13/21 10:00*	*08/14/21 08:00*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*	*08/13/21 10:00*	*08/14/21 08:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**20**		1.7	0.69	mg/Kg	☼	08/12/21 07:35	08/16/21 20:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**35.8**		1.0	1.0	%			08/12/21 09:02	1

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-50879-1	941-P3 (3)	112	83	102	100
410-50879-2	941-P4 (3)	86	81	83	81
410-50879-3	941-P5 (3)	108	88	104	108
410-50879-4	941-P1 (3)	112	93	103	100
410-50879-5	Pipe-32 (2)	114	79	102	97
410-50879-6	Pipe 33 (2)	111	94	102	99
410-50879-7	2045-P3 (3)	112	82	103	93
410-50879-8	2045-P1 (3)	113	86	103	93
410-50879-9	Pipe 34 (2)	92	82	88	83
410-50879-10	Pipe 35 (2)	113	89	106	95
410-50879-11	Pipe 36 (2)	115	80	105	97
410-50879-12	Pipe 37 (2)	117	85	104	93
410-50879-13	Pipe 38 (2)	58	73	47 S1-	42 S1-
410-50879-14	Pipe 39 (2)	118	81	104	92
410-50879-15	Pipe 40 (2)	100	87	95	93
410-50879-16	2040-P2 (3)	107	83	104	108
410-50879-17	2040-P3 (3)	104	91	103	98
410-50879-18	2040-P4 (3)	113	93	104	98
410-50879-19	2040-P5 (3)	114	74	109	121
410-50879-20	Pipe 31 (2)	104	90	101	98
410-50879-21	Pipe 26 (2)	113	94	104	99
410-50879-22	4847-P4 (3)	113	95	104	97
410-50879-23	2040-P1 (3)	108	87	102	102
410-50879-24	Pipe 28 (2)	109	87	106	104
410-50879-26	Dup-06	101	91	96	92
LCS 410-160576/5	Lab Control Sample	103	94	95	99
LCS 410-160689/4	Lab Control Sample	101	87	100	92
LCS 410-160723/5	Lab Control Sample	103	98	100	101
LCS 410-161178/4	Lab Control Sample	100	87	98	92
LCSD 410-160576/6	Lab Control Sample Dup	103	93	97	98
LCSD 410-160689/5	Lab Control Sample Dup	103	88	101	92
LCSD 410-160723/6	Lab Control Sample Dup	100	96	99	101
LCSD 410-161178/5	Lab Control Sample Dup	102	86	99	93
MB 410-160576/10	Method Blank	108	86	102	93
MB 410-160689/9	Method Blank	101	83	98	89
MB 410-160723/8	Method Blank	104	95	100	99
MB 410-161178/7	Method Blank	101	84	98	90

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Job ID: 410-50879-1
Project/Site: PBF Logistics

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-50879-25	Trip Blank	96	104	99	93
LCS 410-160096/4	Lab Control Sample	97	105	101	94
LCSD 410-160096/5	Lab Control Sample Dup	97	103	100	93
MB 410-160096/6	Method Blank	97	104	100	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-50879-1	941-P3 (3)	72	64	70
410-50879-1 MS	941-P3 (3)	70	61	72
410-50879-1 MSD	941-P3 (3)	45	41	32 S1-
410-50879-2	941-P4 (3)	73	63	74
410-50879-3	941-P5 (3)	73	63	76
410-50879-4	941-P1 (3)	80	71	85
410-50879-5	Pipe-32 (2)	71	64	70
410-50879-6	Pipe 33 (2)	77	66	80
410-50879-7	2045-P3 (3)	73	63	75
410-50879-8	2045-P1 (3)	72	64	67
410-50879-9	Pipe 34 (2)	67	60	74
410-50879-10	Pipe 35 (2)	72	63	71
410-50879-11	Pipe 36 (2)	76	64	77
410-50879-12	Pipe 37 (2)	78	67	87
410-50879-13	Pipe 38 (2)	71	61	78
410-50879-14	Pipe 39 (2)	78	65	85
410-50879-15	Pipe 40 (2)	62	60	76
410-50879-16	2040-P2 (3)	76	65	87
410-50879-17	2040-P3 (3)	65	56	60
410-50879-18	2040-P4 (3)	78	68	83
410-50879-19	2040-P5 (3)	77	68	77
410-50879-20	Pipe 31 (2)	76	64	85
410-50879-21	Pipe 26 (2)	79	67	79
410-50879-22	4847-P4 (3)	81	67	84
410-50879-23	2040-P1 (3)	78	64	85
410-50879-24	Pipe 28 (2)	76	65	80
410-50879-26	Dup-06	69	65	78
LCS 410-160042/2-A	Lab Control Sample	76	65	77
LCS 410-160044/2-A	Lab Control Sample	87	75	93
MB 410-160042/1-A	Method Blank	74	63	80
MB 410-160044/1-A	Method Blank	88	74	98

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-160576/10
Matrix: Solid
Analysis Batch: 160576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/15/21 16:04	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/15/21 16:04	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/15/21 16:04	1
Toluene	ND		5.0	0.60	ug/Kg			08/15/21 16:04	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/15/21 16:04	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/15/21 16:04	1
Benzene	ND		5.0	0.50	ug/Kg			08/15/21 16:04	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/15/21 16:04	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/15/21 16:04	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/15/21 16:04	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/15/21 16:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*		*08/15/21 16:04*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*		*08/15/21 16:04*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*		*08/15/21 16:04*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*		*08/15/21 16:04*	*1*

Lab Sample ID: LCS 410-160576/5
Matrix: Solid
Analysis Batch: 160576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	18.8		ug/Kg		94	78 - 120		
1,2-Dichloroethane			20.0	16.0		ug/Kg		80	71 - 128		
1,3,5-Trimethylbenzene			20.0	18.0		ug/Kg		90	73 - 120		
Toluene			20.0	17.5		ug/Kg		88	80 - 120		
Xylenes, Total			60.0	51.9		ug/Kg		87	75 - 120		
Methyl tertiary butyl ether			20.0	15.1		ug/Kg		75	72 - 120		
Benzene			20.0	19.3		ug/Kg		97	80 - 120		
Naphthalene			20.0	13.5		ug/Kg		68	48 - 130		
1,2,4-Trimethylbenzene			20.0	17.7		ug/Kg		88	73 - 120		
Isopropylbenzene			20.0	16.8		ug/Kg		84	77 - 120		
1,2-Dibromoethane			20.0	16.7		ug/Kg		84	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*99*		*52 - 141*

Lab Sample ID: LCSD 410-160576/6
Matrix: Solid
Analysis Batch: 160576

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	19.4		ug/Kg		97	78 - 120	3	30
1,2-Dichloroethane			20.0	16.3		ug/Kg		81	71 - 128	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-160576/6
Matrix: Solid
Analysis Batch: 160576

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	18.5		ug/Kg		93	73 - 120	3	30
Toluene			20.0	18.3		ug/Kg		91	80 - 120	4	30
Xylenes, Total			60.0	53.5		ug/Kg		89	75 - 120	3	30
Methyl tertiary butyl ether			20.0	15.8		ug/Kg		79	72 - 120	5	30
Benzene			20.0	20.5		ug/Kg		102	80 - 120	6	30
Naphthalene			20.0	14.1		ug/Kg		70	48 - 130	4	30
1,2,4-Trimethylbenzene			20.0	18.6		ug/Kg		93	73 - 120	5	30
Isopropylbenzene			20.0	17.2		ug/Kg		86	77 - 120	3	30
1,2-Dibromoethane			20.0	17.3		ug/Kg		86	76 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: MB 410-160689/9
Matrix: Solid
Analysis Batch: 160689

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/16/21 11:45	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/16/21 11:45	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/16/21 11:45	50
Toluene	ND		250	30	ug/Kg			08/16/21 11:45	50
Xylenes, Total	ND		500	70	ug/Kg			08/16/21 11:45	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/16/21 11:45	50
Benzene	ND		250	25	ug/Kg			08/16/21 11:45	50
Naphthalene	ND		250	100	ug/Kg			08/16/21 11:45	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/16/21 11:45	50
Isopropylbenzene	ND		250	20	ug/Kg			08/16/21 11:45	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/16/21 11:45	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*		*08/16/21 11:45*	*50*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*		*08/16/21 11:45*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*08/16/21 11:45*	*50*
Toluene-d8 (Surr)	*89*		*52 - 141*		*08/16/21 11:45*	*50*

Lab Sample ID: LCS 410-160689/4
Matrix: Solid
Analysis Batch: 160689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	936		ug/Kg		94	78 - 120
1,2-Dichloroethane			1000	976		ug/Kg		98	71 - 128
1,3,5-Trimethylbenzene			1000	860		ug/Kg		86	73 - 120
Toluene			1000	960		ug/Kg		96	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-160689/4
Matrix: Solid
Analysis Batch: 160689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	3000	2920		ug/Kg		97	75 - 120
Methyl tertiary butyl ether	1000	997		ug/Kg		100	72 - 120
Benzene	1000	1000		ug/Kg		100	80 - 120
Naphthalene	1000	901		ug/Kg		90	48 - 130
1,2,4-Trimethylbenzene	1000	856		ug/Kg		86	73 - 120
Isopropylbenzene	1000	966		ug/Kg		97	77 - 120
1,2-Dibromoethane	1000	982		ug/Kg		98	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: LCSD 410-160689/5
Matrix: Solid
Analysis Batch: 160689

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	1000	948		ug/Kg		95	78 - 120	1	30
1,2-Dichloroethane	1000	975		ug/Kg		97	71 - 128	0	30
1,3,5-Trimethylbenzene	1000	866		ug/Kg		87	73 - 120	1	30
Toluene	1000	963		ug/Kg		96	80 - 120	0	30
Xylenes, Total	3000	2930		ug/Kg		98	75 - 120	1	30
Methyl tertiary butyl ether	1000	995		ug/Kg		99	72 - 120	0	30
Benzene	1000	1020		ug/Kg		102	80 - 120	2	30
Naphthalene	1000	902		ug/Kg		90	48 - 130	0	30
1,2,4-Trimethylbenzene	1000	864		ug/Kg		86	73 - 120	1	30
Isopropylbenzene	1000	972		ug/Kg		97	77 - 120	1	30
1,2-Dibromoethane	1000	981		ug/Kg		98	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: MB 410-160723/8
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/16/21 14:05	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/16/21 14:05	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Toluene	ND		5.0	0.60	ug/Kg			08/16/21 14:05	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/16/21 14:05	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-160723/8
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/16/21 14:05	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/16/21 14:05	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/16/21 14:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*08/16/21 14:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*		*08/16/21 14:05*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*		*08/16/21 14:05*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*		*08/16/21 14:05*	*1*

Lab Sample ID: LCS 410-160723/5
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	17.5		ug/Kg		87	78 - 120		
1,2-Dichloroethane			20.0	18.6		ug/Kg		93	71 - 128		
1,3,5-Trimethylbenzene			20.0	17.3		ug/Kg		87	73 - 120		
Toluene			20.0	17.6		ug/Kg		88	80 - 120		
Xylenes, Total			60.0	52.7		ug/Kg		88	75 - 120		
Methyl tertiary butyl ether			20.0	20.5		ug/Kg		102	72 - 120		
Benzene			20.0	18.4		ug/Kg		92	80 - 120		
Naphthalene			20.0	18.2		ug/Kg		91	48 - 130		
1,2,4-Trimethylbenzene			20.0	17.6		ug/Kg		88	73 - 120		
Isopropylbenzene			20.0	17.3		ug/Kg		86	77 - 120		
1,2-Dibromoethane			20.0	19.1		ug/Kg		96	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: LCSD 410-160723/6
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	17.7		ug/Kg		89	78 - 120	1	30
1,2-Dichloroethane			20.0	18.2		ug/Kg		91	71 - 128	2	30
1,3,5-Trimethylbenzene			20.0	17.7		ug/Kg		88	73 - 120	2	30
Toluene			20.0	17.7		ug/Kg		89	80 - 120	1	30
Xylenes, Total			60.0	53.3		ug/Kg		89	75 - 120	1	30
Methyl tertiary butyl ether			20.0	19.6		ug/Kg		98	72 - 120	4	30
Benzene			20.0	18.3		ug/Kg		92	80 - 120	1	30
Naphthalene			20.0	17.0		ug/Kg		85	48 - 130	6	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-160723/6
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		90	73 - 120	2	30
Isopropylbenzene			20.0	17.4		ug/Kg		87	77 - 120	1	30
1,2-Dibromoethane			20.0	18.6		ug/Kg		93	76 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: MB 410-161178/7
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/17/21 10:51	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/17/21 10:51	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/17/21 10:51	50
Toluene	ND		250	30	ug/Kg			08/17/21 10:51	50
Xylenes, Total	ND		500	70	ug/Kg			08/17/21 10:51	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/17/21 10:51	50
Benzene	ND		250	25	ug/Kg			08/17/21 10:51	50
Naphthalene	ND		250	100	ug/Kg			08/17/21 10:51	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/17/21 10:51	50
Isopropylbenzene	ND		250	20	ug/Kg			08/17/21 10:51	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/17/21 10:51	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*		*08/17/21 10:51*	*50*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*		*08/17/21 10:51*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*08/17/21 10:51*	*50*
Toluene-d8 (Surr)	*90*		*52 - 141*		*08/17/21 10:51*	*50*

Lab Sample ID: LCS 410-161178/4
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	949		ug/Kg		95	78 - 120		
1,2-Dichloroethane			1000	950		ug/Kg		95	71 - 128		
1,3,5-Trimethylbenzene			1000	871		ug/Kg		87	73 - 120		
Toluene			1000	974		ug/Kg		97	80 - 120		
Xylenes, Total			3000	2960		ug/Kg		99	75 - 120		
Methyl tertiary butyl ether			1000	988		ug/Kg		99	72 - 120		
Benzene			1000	1000		ug/Kg		100	80 - 120		
Naphthalene			1000	922		ug/Kg		92	48 - 130		
1,2,4-Trimethylbenzene			1000	871		ug/Kg		87	73 - 120		
Isopropylbenzene			1000	980		ug/Kg		98	77 - 120		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-161178/4
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			1000	993		ug/Kg		99	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*98*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: LCSD 410-161178/5
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	960		ug/Kg		96	78 - 120	1	30
1,2-Dichloroethane			1000	926		ug/Kg		93	71 - 128	3	30
1,3,5-Trimethylbenzene			1000	885		ug/Kg		89	73 - 120	2	30
Toluene			1000	970		ug/Kg		97	80 - 120	0	30
Xylenes, Total			3000	2940		ug/Kg		98	75 - 120	1	30
Methyl tertiary butyl ether			1000	1000		ug/Kg		100	72 - 120	1	30
Benzene			1000	1020		ug/Kg		102	80 - 120	2	30
Naphthalene			1000	930		ug/Kg		93	48 - 130	1	30
1,2,4-Trimethylbenzene			1000	873		ug/Kg		87	73 - 120	0	30
Isopropylbenzene			1000	985		ug/Kg		98	77 - 120	0	30
1,2-Dibromoethane			1000	992		ug/Kg		99	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*93*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-160096/6
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/13/21 10:12	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/13/21 10:12	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:12	1
Toluene	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/13/21 10:12	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/13/21 10:12	1
Benzene	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Naphthalene	ND		5.0	1.0	ug/L			08/13/21 10:12	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/13/21 10:12	1

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-160096/6
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/13/21 10:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/13/21 10:12*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/13/21 10:12*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/13/21 10:12*	*1*

Lab Sample ID: LCS 410-160096/4
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	20.0	16.2		ug/L		81	77 - 120
Ethylbenzene	20.0	16.8		ug/L		84	80 - 120
1,2-Dichloroethane	20.0	17.6		ug/L		88	73 - 124
1,3,5-Trimethylbenzene	20.0	15.8		ug/L		79	75 - 120
Toluene	20.0	16.4		ug/L		82	80 - 120
Xylenes, Total	60.0	49.9		ug/L		83	80 - 120
Methyl tertiary butyl ether	20.0	18.1		ug/L		90	69 - 122
Benzene	20.0	18.2		ug/L		91	80 - 120
Naphthalene	20.0	16.2		ug/L		81	53 - 124
1,2,4-Trimethylbenzene	20.0	15.6		ug/L		78	75 - 120
Isopropylbenzene	20.0	16.3		ug/L		81	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: LCSD 410-160096/5
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	20.0	18.4		ug/L		92	77 - 120	13	30
Ethylbenzene	20.0	18.9		ug/L		94	80 - 120	11	30
1,2-Dichloroethane	20.0	19.9		ug/L		99	73 - 124	12	30
1,3,5-Trimethylbenzene	20.0	17.6		ug/L		88	75 - 120	11	30
Toluene	20.0	18.5		ug/L		93	80 - 120	12	30
Xylenes, Total	60.0	55.7		ug/L		93	80 - 120	11	30
Methyl tertiary butyl ether	20.0	20.4		ug/L		102	69 - 122	12	30
Benzene	20.0	20.4		ug/L		102	80 - 120	11	30
Naphthalene	20.0	17.9		ug/L		89	53 - 124	10	30
1,2,4-Trimethylbenzene	20.0	17.7		ug/L		88	75 - 120	13	30
Isopropylbenzene	20.0	18.2		ug/L		91	80 - 120	11	30

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-160096/5
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	93		80 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-160042/1-A
Matrix: Solid
Analysis Batch: 160448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Chrysene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Fluorene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Phenanthrene	ND		17	4.0	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Pyrene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		39 - 100	08/13/21 10:00	08/13/21 22:59	1
Nitrobenzene-d5 (Surr)	63		32 - 97	08/13/21 10:00	08/13/21 22:59	1
p-Terphenyl-d14 (Surr)	80		45 - 108	08/13/21 10:00	08/13/21 22:59	1

Lab Sample ID: LCS 410-160042/2-A
Matrix: Solid
Analysis Batch: 160448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1360		ug/Kg		82	75 - 120
Benzo[a]anthracene	1670	1330		ug/Kg		80	73 - 120
Benzo[a]pyrene	1670	1370		ug/Kg		82	80 - 123
Benzo[b]fluoranthene	1670	1210		ug/Kg		73	63 - 120
Benzo[g,h,i]perylene	1670	1370		ug/Kg		82	77 - 120
Chrysene	1670	1300		ug/Kg		78	66 - 120
Fluorene	1670	1370		ug/Kg		82	68 - 120
Phenanthrene	1670	1330		ug/Kg		80	74 - 120
Pyrene	1670	1300		ug/Kg		78	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	76		39 - 100
Nitrobenzene-d5 (Surr)	65		32 - 97
p-Terphenyl-d14 (Surr)	77		45 - 108

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-50879-1 MS
Matrix: Solid
Analysis Batch: 160448

Client Sample ID: 941-P3 (3)
Prep Type: Total/NA
Prep Batch: 160042

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	ND	F2 FL	2210	1630	FL	ug/Kg	☼	74	75 - 120
Benzo[a]anthracene	4.7	J F2 FL	2210	1570	FL	ug/Kg	☼	71	73 - 120
Benzo[a]pyrene	ND	F2 FL	2210	1450	FL	ug/Kg	☼	65	80 - 123
Benzo[b]fluoranthene	6.4	J F2 FL	2210	1360	FL	ug/Kg	☼	61	63 - 120
Benzo[g,h,i]perylene	ND	F2 FL	2210	1390	FL	ug/Kg	☼	63	77 - 120
Chrysene	8.5	J F2 FL	2210	1540		ug/Kg	☼	69	66 - 120
Fluorene	ND	F2 FL	2210	1660		ug/Kg	☼	75	68 - 120
Phenanthrene	27	F2 FL	2210	1640	FL	ug/Kg	☼	73	74 - 120
Pyrene	12	J F2 FL	2210	1540	FL	ug/Kg	☼	69	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*70*		*39 - 100*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*
p-Terphenyl-d14 (Surr)	*72*		*45 - 108*

Lab Sample ID: 410-50879-1 MSD
Matrix: Solid
Analysis Batch: 160448

Client Sample ID: 941-P3 (3)
Prep Type: Total/NA
Prep Batch: 160042

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	ND	F2 FL	2210	630	F2 FL	ug/Kg	☼	29	75 - 120	88	30
Benzo[a]anthracene	4.7	J F2 FL	2210	677	F2 FL	ug/Kg	☼	30	73 - 120	79	30
Benzo[a]pyrene	ND	F2 FL	2210	640	F2 FL	ug/Kg	☼	29	80 - 123	77	30
Benzo[b]fluoranthene	6.4	J F2 FL	2210	578	F2 FL	ug/Kg	☼	26	63 - 120	81	30
Benzo[g,h,i]perylene	ND	F2 FL	2210	597	F2 FL	ug/Kg	☼	27	77 - 120	80	30
Chrysene	8.5	J F2 FL	2210	646	F2 FL	ug/Kg	☼	29	66 - 120	82	30
Fluorene	ND	F2 FL	2210	840	F2 FL	ug/Kg	☼	38	68 - 120	66	30
Phenanthrene	27	F2 FL	2210	646	F2 FL	ug/Kg	☼	28	74 - 120	87	30
Pyrene	12	J F2 FL	2210	579	F2 FL	ug/Kg	☼	26	70 - 120	91	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*45*		*39 - 100*
Nitrobenzene-d5 (Surr)	*41*		*32 - 97*
p-Terphenyl-d14 (Surr)	*32*	*S1-*	*45 - 108*

Lab Sample ID: MB 410-160044/1-A
Matrix: Solid
Analysis Batch: 160678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Chrysene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Fluorene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Phenanthrene	ND		17	4.0	ug/Kg		08/13/21 09:45	08/16/21 09:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-160044/1-A
Matrix: Solid
Analysis Batch: 160678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*39 - 100*	*08/13/21 09:45*	*08/16/21 09:49*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*08/13/21 09:45*	*08/16/21 09:49*	*1*
p-Terphenyl-d14 (Surr)	*98*		*45 - 108*	*08/13/21 09:45*	*08/16/21 09:49*	*1*

Lab Sample ID: LCS 410-160044/2-A
Matrix: Solid
Analysis Batch: 160678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1600		ug/Kg		96	75 - 120
Benzo[a]anthracene	1670	1550		ug/Kg		93	73 - 120
Benzo[a]pyrene	1670	1660		ug/Kg		99	80 - 123
Benzo[b]fluoranthene	1670	1470		ug/Kg		88	63 - 120
Benzo[g,h,i]perylene	1670	1600		ug/Kg		96	77 - 120
Chrysene	1670	1540		ug/Kg		92	66 - 120
Fluorene	1670	1580		ug/Kg		95	68 - 120
Phenanthrene	1670	1540		ug/Kg		92	74 - 120
Pyrene	1670	1530		ug/Kg		92	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*
p-Terphenyl-d14 (Surr)	*93*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-159527/1-A
Matrix: Solid
Analysis Batch: 161056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/12/21 07:35	08/16/21 19:27	1

Lab Sample ID: LCS 410-159527/2-A
Matrix: Solid
Analysis Batch: 161056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.12		mg/Kg		102	80 - 120

Lab Sample ID: 410-50879-21 MS
Matrix: Solid
Analysis Batch: 161056

Client Sample ID: Pipe 26 (2)
Prep Type: Total/NA
Prep Batch: 159527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	32	F2	4.74	30.8	4	mg/Kg	☼	-16	75 - 125

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Method: 6010C - Metals (ICP)

Lab Sample ID: 410-50879-21 MSD
Matrix: Solid
Analysis Batch: 161056

Client Sample ID: Pipe 26 (2)
Prep Type: Total/NA
Prep Batch: 159527

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	32	F2	5.80	51.1	4 F2	mg/Kg	☼	337	75 - 125	50	20

Lab Sample ID: 410-50879-21 DU
Matrix: Solid
Analysis Batch: 161056

Client Sample ID: Pipe 26 (2)
Prep Type: Total/NA
Prep Batch: 159527

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	32	F2	65.2	F3	mg/Kg	☼	70	20

Lab Sample ID: MB 410-159761/1-A
Matrix: Solid
Analysis Batch: 160209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159761

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/12/21 13:44	08/13/21 08:31	1

Lab Sample ID: LCS 410-159761/2-A
Matrix: Solid
Analysis Batch: 160209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.20		mg/Kg		104	80 - 120

GC/MS VOA

Prep Batch: 159682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-2	941-P4 (3)	Total/NA	Solid	5035	
410-50879-9	Pipe 34 (2)	Total/NA	Solid	5035	
410-50879-13 - RA	Pipe 38 (2)	Total/NA	Solid	5035	
410-50879-13	Pipe 38 (2)	Total/NA	Solid	5035	
410-50879-15	Pipe 40 (2)	Total/NA	Solid	5035	
410-50879-26	Dup-06	Total/NA	Solid	5035	

Prep Batch: 159683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	5035	
410-50879-3	941-P5 (3)	Total/NA	Solid	5035	
410-50879-4	941-P1 (3)	Total/NA	Solid	5035	
410-50879-5	Pipe-32 (2)	Total/NA	Solid	5035	
410-50879-6	Pipe 33 (2)	Total/NA	Solid	5035	
410-50879-7	2045-P3 (3)	Total/NA	Solid	5035	
410-50879-8	2045-P1 (3)	Total/NA	Solid	5035	
410-50879-10	Pipe 35 (2)	Total/NA	Solid	5035	
410-50879-11	Pipe 36 (2)	Total/NA	Solid	5035	
410-50879-12	Pipe 37 (2)	Total/NA	Solid	5035	
410-50879-14	Pipe 39 (2)	Total/NA	Solid	5035	
410-50879-16	2040-P2 (3)	Total/NA	Solid	5035	
410-50879-17	2040-P3 (3)	Total/NA	Solid	5035	
410-50879-18	2040-P4 (3)	Total/NA	Solid	5035	
410-50879-19 - RA	2040-P5 (3)	Total/NA	Solid	5035	
410-50879-19	2040-P5 (3)	Total/NA	Solid	5035	
410-50879-20	Pipe 31 (2)	Total/NA	Solid	5035	
410-50879-21	Pipe 26 (2)	Total/NA	Solid	5035	
410-50879-22	4847-P4 (3)	Total/NA	Solid	5035	
410-50879-23	2040-P1 (3)	Total/NA	Solid	5035	
410-50879-24	Pipe 28 (2)	Total/NA	Solid	5035	

Analysis Batch: 160096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-25	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-160096/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-160096/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-160096/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Analysis Batch: 160576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	8260C	159683
410-50879-5	Pipe-32 (2)	Total/NA	Solid	8260C	159683
410-50879-7	2045-P3 (3)	Total/NA	Solid	8260C	159683
410-50879-8	2045-P1 (3)	Total/NA	Solid	8260C	159683
410-50879-10	Pipe 35 (2)	Total/NA	Solid	8260C	159683
410-50879-11	Pipe 36 (2)	Total/NA	Solid	8260C	159683
410-50879-12	Pipe 37 (2)	Total/NA	Solid	8260C	159683
410-50879-14	Pipe 39 (2)	Total/NA	Solid	8260C	159683
MB 410-160576/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-160576/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160576/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS VOA

Analysis Batch: 160689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-2	941-P4 (3)	Total/NA	Solid	8260C	159682
410-50879-9	Pipe 34 (2)	Total/NA	Solid	8260C	159682
410-50879-13	Pipe 38 (2)	Total/NA	Solid	8260C	159682
410-50879-26	Dup-06	Total/NA	Solid	8260C	159682
MB 410-160689/9	Method Blank	Total/NA	Solid	8260C	
LCS 410-160689/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160689/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 160723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-3	941-P5 (3)	Total/NA	Solid	8260C	159683
410-50879-4	941-P1 (3)	Total/NA	Solid	8260C	159683
410-50879-6	Pipe 33 (2)	Total/NA	Solid	8260C	159683
410-50879-16	2040-P2 (3)	Total/NA	Solid	8260C	159683
410-50879-17	2040-P3 (3)	Total/NA	Solid	8260C	159683
410-50879-18	2040-P4 (3)	Total/NA	Solid	8260C	159683
410-50879-19	2040-P5 (3)	Total/NA	Solid	8260C	159683
410-50879-20	Pipe 31 (2)	Total/NA	Solid	8260C	159683
410-50879-21	Pipe 26 (2)	Total/NA	Solid	8260C	159683
410-50879-22	4847-P4 (3)	Total/NA	Solid	8260C	159683
410-50879-23	2040-P1 (3)	Total/NA	Solid	8260C	159683
410-50879-24	Pipe 28 (2)	Total/NA	Solid	8260C	159683
MB 410-160723/8	Method Blank	Total/NA	Solid	8260C	
LCS 410-160723/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160723/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 161178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-13 - RA	Pipe 38 (2)	Total/NA	Solid	8260C	159682
410-50879-15	Pipe 40 (2)	Total/NA	Solid	8260C	159682
MB 410-161178/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-161178/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-161178/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 161192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-19 - RA	2040-P5 (3)	Total/NA	Solid	8260C	159683
MB 410-161192/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-161192/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-161192/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 160042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	3546	
410-50879-2	941-P4 (3)	Total/NA	Solid	3546	
410-50879-3	941-P5 (3)	Total/NA	Solid	3546	
410-50879-4	941-P1 (3)	Total/NA	Solid	3546	
410-50879-5	Pipe-32 (2)	Total/NA	Solid	3546	
410-50879-6	Pipe 33 (2)	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 160042 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-7	2045-P3 (3)	Total/NA	Solid	3546	
410-50879-8	2045-P1 (3)	Total/NA	Solid	3546	
410-50879-9	Pipe 34 (2)	Total/NA	Solid	3546	
410-50879-10	Pipe 35 (2)	Total/NA	Solid	3546	
410-50879-11	Pipe 36 (2)	Total/NA	Solid	3546	
410-50879-12	Pipe 37 (2)	Total/NA	Solid	3546	
410-50879-13	Pipe 38 (2)	Total/NA	Solid	3546	
410-50879-14	Pipe 39 (2)	Total/NA	Solid	3546	
410-50879-15	Pipe 40 (2)	Total/NA	Solid	3546	
410-50879-16	2040-P2 (3)	Total/NA	Solid	3546	
410-50879-17	2040-P3 (3)	Total/NA	Solid	3546	
410-50879-18	2040-P4 (3)	Total/NA	Solid	3546	
410-50879-19	2040-P5 (3)	Total/NA	Solid	3546	
410-50879-26	Dup-06	Total/NA	Solid	3546	
MB 410-160042/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-160042/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-50879-1 MS	941-P3 (3)	Total/NA	Solid	3546	
410-50879-1 MSD	941-P3 (3)	Total/NA	Solid	3546	

Prep Batch: 160044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-20	Pipe 31 (2)	Total/NA	Solid	3546	
410-50879-21	Pipe 26 (2)	Total/NA	Solid	3546	
410-50879-22	4847-P4 (3)	Total/NA	Solid	3546	
410-50879-23	2040-P1 (3)	Total/NA	Solid	3546	
410-50879-24	Pipe 28 (2)	Total/NA	Solid	3546	
MB 410-160044/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-160044/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 160448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	8270D	160042
410-50879-2	941-P4 (3)	Total/NA	Solid	8270D	160042
410-50879-3	941-P5 (3)	Total/NA	Solid	8270D	160042
410-50879-4	941-P1 (3)	Total/NA	Solid	8270D	160042
410-50879-5	Pipe-32 (2)	Total/NA	Solid	8270D	160042
410-50879-6	Pipe 33 (2)	Total/NA	Solid	8270D	160042
410-50879-7	2045-P3 (3)	Total/NA	Solid	8270D	160042
410-50879-8	2045-P1 (3)	Total/NA	Solid	8270D	160042
410-50879-9	Pipe 34 (2)	Total/NA	Solid	8270D	160042
410-50879-10	Pipe 35 (2)	Total/NA	Solid	8270D	160042
410-50879-11	Pipe 36 (2)	Total/NA	Solid	8270D	160042
410-50879-12	Pipe 37 (2)	Total/NA	Solid	8270D	160042
410-50879-13	Pipe 38 (2)	Total/NA	Solid	8270D	160042
410-50879-14	Pipe 39 (2)	Total/NA	Solid	8270D	160042
410-50879-15	Pipe 40 (2)	Total/NA	Solid	8270D	160042
410-50879-16	2040-P2 (3)	Total/NA	Solid	8270D	160042
410-50879-17	2040-P3 (3)	Total/NA	Solid	8270D	160042
410-50879-18	2040-P4 (3)	Total/NA	Solid	8270D	160042
410-50879-19	2040-P5 (3)	Total/NA	Solid	8270D	160042
410-50879-26	Dup-06	Total/NA	Solid	8270D	160042

GC/MS Semi VOA (Continued)

Analysis Batch: 160448 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-160042/1-A	Method Blank	Total/NA	Solid	8270D	160042
LCS 410-160042/2-A	Lab Control Sample	Total/NA	Solid	8270D	160042
410-50879-1 MS	941-P3 (3)	Total/NA	Solid	8270D	160042
410-50879-1 MSD	941-P3 (3)	Total/NA	Solid	8270D	160042

Analysis Batch: 160678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-20	Pipe 31 (2)	Total/NA	Solid	8270D	160044
410-50879-21	Pipe 26 (2)	Total/NA	Solid	8270D	160044
410-50879-22	4847-P4 (3)	Total/NA	Solid	8270D	160044
410-50879-23	2040-P1 (3)	Total/NA	Solid	8270D	160044
410-50879-24	Pipe 28 (2)	Total/NA	Solid	8270D	160044
MB 410-160044/1-A	Method Blank	Total/NA	Solid	8270D	160044
LCS 410-160044/2-A	Lab Control Sample	Total/NA	Solid	8270D	160044

Metals

Prep Batch: 159527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-2	941-P4 (3)	Total/NA	Solid	3050B	
410-50879-3	941-P5 (3)	Total/NA	Solid	3050B	
410-50879-4	941-P1 (3)	Total/NA	Solid	3050B	
410-50879-5	Pipe-32 (2)	Total/NA	Solid	3050B	
410-50879-7	2045-P3 (3)	Total/NA	Solid	3050B	
410-50879-8	2045-P1 (3)	Total/NA	Solid	3050B	
410-50879-9	Pipe 34 (2)	Total/NA	Solid	3050B	
410-50879-10	Pipe 35 (2)	Total/NA	Solid	3050B	
410-50879-11	Pipe 36 (2)	Total/NA	Solid	3050B	
410-50879-12	Pipe 37 (2)	Total/NA	Solid	3050B	
410-50879-13	Pipe 38 (2)	Total/NA	Solid	3050B	
410-50879-14	Pipe 39 (2)	Total/NA	Solid	3050B	
410-50879-15	Pipe 40 (2)	Total/NA	Solid	3050B	
410-50879-16	2040-P2 (3)	Total/NA	Solid	3050B	
410-50879-17	2040-P3 (3)	Total/NA	Solid	3050B	
410-50879-19	2040-P5 (3)	Total/NA	Solid	3050B	
410-50879-21	Pipe 26 (2)	Total/NA	Solid	3050B	
410-50879-22	4847-P4 (3)	Total/NA	Solid	3050B	
410-50879-23	2040-P1 (3)	Total/NA	Solid	3050B	
410-50879-26	Dup-06	Total/NA	Solid	3050B	
MB 410-159527/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-159527/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-50879-21 MS	Pipe 26 (2)	Total/NA	Solid	3050B	
410-50879-21 MSD	Pipe 26 (2)	Total/NA	Solid	3050B	
410-50879-21 DU	Pipe 26 (2)	Total/NA	Solid	3050B	

Prep Batch: 159761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	3050B	
410-50879-6	Pipe 33 (2)	Total/NA	Solid	3050B	
410-50879-18	2040-P4 (3)	Total/NA	Solid	3050B	
410-50879-20	Pipe 31 (2)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 159761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-24	Pipe 28 (2)	Total/NA	Solid	3050B	
MB 410-159761/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-159761/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 160209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	6010C	159761
410-50879-6	Pipe 33 (2)	Total/NA	Solid	6010C	159761
410-50879-18	2040-P4 (3)	Total/NA	Solid	6010C	159761
410-50879-20	Pipe 31 (2)	Total/NA	Solid	6010C	159761
410-50879-24	Pipe 28 (2)	Total/NA	Solid	6010C	159761
MB 410-159761/1-A	Method Blank	Total/NA	Solid	6010C	159761
LCS 410-159761/2-A	Lab Control Sample	Total/NA	Solid	6010C	159761

Analysis Batch: 161056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-2	941-P4 (3)	Total/NA	Solid	6010C	159527
410-50879-3	941-P5 (3)	Total/NA	Solid	6010C	159527
410-50879-4	941-P1 (3)	Total/NA	Solid	6010C	159527
410-50879-5	Pipe-32 (2)	Total/NA	Solid	6010C	159527
410-50879-7	2045-P3 (3)	Total/NA	Solid	6010C	159527
410-50879-8	2045-P1 (3)	Total/NA	Solid	6010C	159527
410-50879-9	Pipe 34 (2)	Total/NA	Solid	6010C	159527
410-50879-10	Pipe 35 (2)	Total/NA	Solid	6010C	159527
410-50879-11	Pipe 36 (2)	Total/NA	Solid	6010C	159527
410-50879-12	Pipe 37 (2)	Total/NA	Solid	6010C	159527
410-50879-13	Pipe 38 (2)	Total/NA	Solid	6010C	159527
410-50879-14	Pipe 39 (2)	Total/NA	Solid	6010C	159527
410-50879-15	Pipe 40 (2)	Total/NA	Solid	6010C	159527
410-50879-16	2040-P2 (3)	Total/NA	Solid	6010C	159527
410-50879-17	2040-P3 (3)	Total/NA	Solid	6010C	159527
410-50879-19	2040-P5 (3)	Total/NA	Solid	6010C	159527
410-50879-21	Pipe 26 (2)	Total/NA	Solid	6010C	159527
410-50879-22	4847-P4 (3)	Total/NA	Solid	6010C	159527
410-50879-23	2040-P1 (3)	Total/NA	Solid	6010C	159527
410-50879-26	Dup-06	Total/NA	Solid	6010C	159527
MB 410-159527/1-A	Method Blank	Total/NA	Solid	6010C	159527
LCS 410-159527/2-A	Lab Control Sample	Total/NA	Solid	6010C	159527
410-50879-21 MS	Pipe 26 (2)	Total/NA	Solid	6010C	159527
410-50879-21 MSD	Pipe 26 (2)	Total/NA	Solid	6010C	159527
410-50879-21 DU	Pipe 26 (2)	Total/NA	Solid	6010C	159527

General Chemistry

Analysis Batch: 159541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	Moisture	
410-50879-2	941-P4 (3)	Total/NA	Solid	Moisture	
410-50879-3	941-P5 (3)	Total/NA	Solid	Moisture	
410-50879-4	941-P1 (3)	Total/NA	Solid	Moisture	
410-50879-5	Pipe-32 (2)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 159541 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-6	Pipe 33 (2)	Total/NA	Solid	Moisture	
410-50879-7	2045-P3 (3)	Total/NA	Solid	Moisture	
410-50879-8	2045-P1 (3)	Total/NA	Solid	Moisture	
410-50879-9	Pipe 34 (2)	Total/NA	Solid	Moisture	
410-50879-10	Pipe 35 (2)	Total/NA	Solid	Moisture	
410-50879-11	Pipe 36 (2)	Total/NA	Solid	Moisture	
410-50879-12	Pipe 37 (2)	Total/NA	Solid	Moisture	
410-50879-13	Pipe 38 (2)	Total/NA	Solid	Moisture	
410-50879-14	Pipe 39 (2)	Total/NA	Solid	Moisture	
410-50879-15	Pipe 40 (2)	Total/NA	Solid	Moisture	
410-50879-16	2040-P2 (3)	Total/NA	Solid	Moisture	
410-50879-17	2040-P3 (3)	Total/NA	Solid	Moisture	
410-50879-18	2040-P4 (3)	Total/NA	Solid	Moisture	
410-50879-19	2040-P5 (3)	Total/NA	Solid	Moisture	
410-50879-20	Pipe 31 (2)	Total/NA	Solid	Moisture	

Analysis Batch: 159588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-21	Pipe 26 (2)	Total/NA	Solid	Moisture	
410-50879-22	4847-P4 (3)	Total/NA	Solid	Moisture	
410-50879-23	2040-P1 (3)	Total/NA	Solid	Moisture	
410-50879-24	Pipe 28 (2)	Total/NA	Solid	Moisture	
410-50879-26	Dup-06	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: 941-P3 (3)

Lab Sample ID: 410-50879-1

Date Collected: 08/10/21 11:10

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 941-P3 (3)

Lab Sample ID: 410-50879-1

Date Collected: 08/10/21 11:10

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 22:03	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 00:07	SJ89	ELLE
Total/NA	Prep	3050B			159761	08/12/21 13:44	UJLA	ELLE
Total/NA	Analysis	6010C		1	160209	08/13/21 10:09	WJM9	ELLE

Client Sample ID: 941-P4 (3)

Lab Sample ID: 410-50879-2

Date Collected: 08/10/21 11:20

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 941-P4 (3)

Lab Sample ID: 410-50879-2

Date Collected: 08/10/21 11:20

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159682	08/12/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		50	160689	08/16/21 17:42	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 01:14	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:46	XQY5	ELLE

Client Sample ID: 941-P5 (3)

Lab Sample ID: 410-50879-3

Date Collected: 08/10/21 11:30

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 941-P5 (3)

Lab Sample ID: 410-50879-3

Date Collected: 08/10/21 11:30

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 14:53	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 01:37	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 21:09	XQY5	ELLE

Client Sample ID: 941-P1 (3)

Lab Sample ID: 410-50879-4

Date Collected: 08/10/21 11:45

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 941-P1 (3)

Lab Sample ID: 410-50879-4

Date Collected: 08/10/21 11:45

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 15:15	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 02:00	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:04	XQY5	ELLE

Client Sample ID: Pipe-32 (2)

Lab Sample ID: 410-50879-5

Date Collected: 08/10/21 12:05

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe-32 (2)

Lab Sample ID: 410-50879-5

Date Collected: 08/10/21 12:05

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 70.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 23:56	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 02:22	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:08	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: Pipe 33 (2)

Lab Sample ID: 410-50879-6
Matrix: Solid
Date Collected: 08/10/21 12:15
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 33 (2)

Lab Sample ID: 410-50879-6
Matrix: Solid
Date Collected: 08/10/21 12:15
Date Received: 08/11/21 17:52
Percent Solids: 66.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 15:38	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 02:44	SJ89	ELLE
Total/NA	Prep	3050B			159761	08/12/21 13:44	UJLA	ELLE
Total/NA	Analysis	6010C		1	160209	08/13/21 09:57	WJM9	ELLE

Client Sample ID: 2045-P3 (3)

Lab Sample ID: 410-50879-7
Matrix: Solid
Date Collected: 08/10/21 12:25
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 2045-P3 (3)

Lab Sample ID: 410-50879-7
Matrix: Solid
Date Collected: 08/10/21 12:25
Date Received: 08/11/21 17:52
Percent Solids: 71.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 20:10	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 03:07	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:55	XQY5	ELLE

Client Sample ID: 2045-P1 (3)

Lab Sample ID: 410-50879-8
Matrix: Solid
Date Collected: 08/10/21 12:35
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: 2045-P1 (3)

Lab Sample ID: 410-50879-8

Date Collected: 08/10/21 12:35
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 21:40	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 03:29	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:01	XQY5	ELLE

Client Sample ID: Pipe 34 (2)

Lab Sample ID: 410-50879-9

Date Collected: 08/10/21 12:55
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 34 (2)

Lab Sample ID: 410-50879-9

Date Collected: 08/10/21 12:55
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159682	08/12/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		100	160689	08/16/21 18:03	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 03:52	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:36	XQY5	ELLE

Client Sample ID: Pipe 35 (2)

Lab Sample ID: 410-50879-10

Date Collected: 08/10/21 13:10
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 35 (2)

Lab Sample ID: 410-50879-10

Date Collected: 08/10/21 13:10
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 22:48	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 04:14	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:33	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: Pipe 36 (2)

Lab Sample ID: 410-50879-11

Date Collected: 08/10/21 13:45

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 36 (2)

Lab Sample ID: 410-50879-11

Date Collected: 08/10/21 13:45

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 69.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 23:11	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 04:37	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:17	XQY5	ELLE

Client Sample ID: Pipe 37 (2)

Lab Sample ID: 410-50879-12

Date Collected: 08/10/21 13:55

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 37 (2)

Lab Sample ID: 410-50879-12

Date Collected: 08/10/21 13:55

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 53.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 20:32	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 05:00	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 21:05	XQY5	ELLE

Client Sample ID: Pipe 38 (2)

Lab Sample ID: 410-50879-13

Date Collected: 08/10/21 14:05

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 38 (2)

Lab Sample ID: 410-50879-13

Date Collected: 08/10/21 14:05

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 53.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159682	08/12/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		50	160689	08/16/21 18:23	USEJ	ELLE
Total/NA	Prep	5035	RA		159682	08/12/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C	RA	50	161178	08/17/21 12:02	SWV2	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 05:22	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:58	XQY5	ELLE

Client Sample ID: Pipe 39 (2)

Lab Sample ID: 410-50879-14

Date Collected: 08/10/21 14:20

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 39 (2)

Lab Sample ID: 410-50879-14

Date Collected: 08/10/21 14:20

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 59.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 20:55	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 05:45	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:30	XQY5	ELLE

Client Sample ID: Pipe 40 (2)

Lab Sample ID: 410-50879-15

Date Collected: 08/10/21 14:35

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 40 (2)

Lab Sample ID: 410-50879-15

Date Collected: 08/10/21 14:35

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 66.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159682	08/12/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		50	161178	08/17/21 11:41	SWV2	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 06:07	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 21:02	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: 2040-P2 (3)

Lab Sample ID: 410-50879-16

Date Collected: 08/11/21 08:25
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 2040-P2 (3)

Lab Sample ID: 410-50879-16

Date Collected: 08/11/21 08:25
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 71.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 17:11	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 06:30	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:23	XQY5	ELLE

Client Sample ID: 2040-P3 (3)

Lab Sample ID: 410-50879-17

Date Collected: 08/11/21 08:35
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 2040-P3 (3)

Lab Sample ID: 410-50879-17

Date Collected: 08/11/21 08:35
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 18:20	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 06:52	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:42	XQY5	ELLE

Client Sample ID: 2040-P4 (3)

Lab Sample ID: 410-50879-18

Date Collected: 08/11/21 08:45
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 2040-P4 (3)

Lab Sample ID: 410-50879-18

Date Collected: 08/11/21 08:45

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 18:43	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 07:15	SJ89	ELLE
Total/NA	Prep	3050B			159761	08/12/21 13:44	UJLA	ELLE
Total/NA	Analysis	6010C		1	160209	08/13/21 10:00	WJM9	ELLE

Client Sample ID: 2040-P5 (3)

Lab Sample ID: 410-50879-19

Date Collected: 08/11/21 09:10

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 2040-P5 (3)

Lab Sample ID: 410-50879-19

Date Collected: 08/11/21 09:10

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 21:48	USEJ	ELLE
Total/NA	Prep	5035	RA		159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	161192	08/17/21 14:35	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 07:38	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:26	XQY5	ELLE

Client Sample ID: Pipe 31 (2)

Lab Sample ID: 410-50879-20

Date Collected: 08/11/21 09:25

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 31 (2)

Lab Sample ID: 410-50879-20

Date Collected: 08/11/21 09:25

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 52.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 16:02	USEJ	ELLE
Total/NA	Prep	3546			160044	08/13/21 09:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 11:19	SJ89	ELLE
Total/NA	Prep	3050B			159761	08/12/21 13:44	UJLA	ELLE
Total/NA	Analysis	6010C		1	160209	08/13/21 10:06	WJM9	ELLE

Client Sample ID: Pipe 26 (2)

Lab Sample ID: 410-50879-21

Date Collected: 08/11/21 09:45

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159588	08/12/21 09:02	UVJN	ELLE

Client Sample ID: Pipe 26 (2)

Lab Sample ID: 410-50879-21

Date Collected: 08/11/21 09:45

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 16:25	USEJ	ELLE
Total/NA	Prep	3546			160044	08/13/21 09:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 11:41	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 19:39	XQY5	ELLE

Client Sample ID: 4847-P4 (3)

Lab Sample ID: 410-50879-22

Date Collected: 08/11/21 11:00

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159588	08/12/21 09:02	UVJN	ELLE

Client Sample ID: 4847-P4 (3)

Lab Sample ID: 410-50879-22

Date Collected: 08/11/21 11:00

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 19:06	USEJ	ELLE
Total/NA	Prep	3546			160044	08/13/21 09:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 12:03	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 19:58	XQY5	ELLE

Client Sample ID: 2040-P1 (3)

Lab Sample ID: 410-50879-23

Date Collected: 08/11/21 11:30

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159588	08/12/21 09:02	UVJN	ELLE

Client Sample ID: 2040-P1 (3)

Lab Sample ID: 410-50879-23

Date Collected: 08/11/21 11:30
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 71.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 17:34	USEJ	ELLE
Total/NA	Prep	3546			160044	08/13/21 09:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 12:26	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:39	XQY5	ELLE

Client Sample ID: Pipe 28 (2)

Lab Sample ID: 410-50879-24

Date Collected: 08/11/21 11:45
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159588	08/12/21 09:02	UVJN	ELLE

Client Sample ID: Pipe 28 (2)

Lab Sample ID: 410-50879-24

Date Collected: 08/11/21 11:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 19:30	USEJ	ELLE
Total/NA	Prep	3546			160044	08/13/21 09:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 12:48	SJ89	ELLE
Total/NA	Prep	3050B			159761	08/12/21 13:44	UJLA	ELLE
Total/NA	Analysis	6010C		1	160209	08/13/21 10:03	WJM9	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-50879-25

Date Collected: 08/11/21 00:00
Matrix: Water
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	160096	08/13/21 11:00	UKAD	ELLE

Client Sample ID: Dup-06

Lab Sample ID: 410-50879-26

Date Collected: 08/10/21 00:00
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159588	08/12/21 09:02	UVJN	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: Dup-06
Date Collected: 08/10/21 00:00
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-26
Matrix: Solid
Percent Solids: 64.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159682	08/12/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		50	160689	08/16/21 18:44	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 08:00	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:20	XQY5	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-50879-1	941-P3 (3)	Solid	08/10/21 11:10	08/11/21 17:52
410-50879-2	941-P4 (3)	Solid	08/10/21 11:20	08/11/21 17:52
410-50879-3	941-P5 (3)	Solid	08/10/21 11:30	08/11/21 17:52
410-50879-4	941-P1 (3)	Solid	08/10/21 11:45	08/11/21 17:52
410-50879-5	Pipe-32 (2)	Solid	08/10/21 12:05	08/11/21 17:52
410-50879-6	Pipe 33 (2)	Solid	08/10/21 12:15	08/11/21 17:52
410-50879-7	2045-P3 (3)	Solid	08/10/21 12:25	08/11/21 17:52
410-50879-8	2045-P1 (3)	Solid	08/10/21 12:35	08/11/21 17:52
410-50879-9	Pipe 34 (2)	Solid	08/10/21 12:55	08/11/21 17:52
410-50879-10	Pipe 35 (2)	Solid	08/10/21 13:10	08/11/21 17:52
410-50879-11	Pipe 36 (2)	Solid	08/10/21 13:45	08/11/21 17:52
410-50879-12	Pipe 37 (2)	Solid	08/10/21 13:55	08/11/21 17:52
410-50879-13	Pipe 38 (2)	Solid	08/10/21 14:05	08/11/21 17:52
410-50879-14	Pipe 39 (2)	Solid	08/10/21 14:20	08/11/21 17:52
410-50879-15	Pipe 40 (2)	Solid	08/10/21 14:35	08/11/21 17:52
410-50879-16	2040-P2 (3)	Solid	08/11/21 08:25	08/11/21 17:52
410-50879-17	2040-P3 (3)	Solid	08/11/21 08:35	08/11/21 17:52
410-50879-18	2040-P4 (3)	Solid	08/11/21 08:45	08/11/21 17:52
410-50879-19	2040-P5 (3)	Solid	08/11/21 09:10	08/11/21 17:52
410-50879-20	Pipe 31 (2)	Solid	08/11/21 09:25	08/11/21 17:52
410-50879-21	Pipe 26 (2)	Solid	08/11/21 09:45	08/11/21 17:52
410-50879-22	4847-P4 (3)	Solid	08/11/21 11:00	08/11/21 17:52
410-50879-23	2040-P1 (3)	Solid	08/11/21 11:30	08/11/21 17:52
410-50879-24	Pipe 28 (2)	Solid	08/11/21 11:45	08/11/21 17:52
410-50879-25	Trip Blank	Water	08/11/21 00:00	08/11/21 17:52
410-50879-26	Dup-06	Solid	08/10/21 00:00	08/11/21 17:52

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-50879 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: IA/DH	Lab PM: Carter, Amek A	COC No: 410-31049-9562 2
Client Contact: Mark Schaeffer	Phone:	E-Mail: Loran Carter@eurofinset.com	State of Origin: PA
Company: Stantec Consulting Corp.	PWSID:		Page: Page 2 of 8
Address: 1060 Andrew Drive Suite 140	Due Date Requested:	Analysis Requested	Job #:
City: West Chester	TAT Requested (days): 5 day		
State, Zip: PA, 19380	Compliance Project: Δ Yes ☒ No		
Phone:	PO #: Purchase Order Requested		
Email: mark.schaeffer@stantec.com	WO #:		
Project Name: PBF Logistics	Project #: 41007459		
Site: 51st Street Terminal	SSOW#:		

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	A		
941-P3 (3)	8/10/21	1110	G	Solid		X	X			
941-P4 (3)	8/10/21	1120	G	Solid		X	X			
941-P5 (3)	8/10/21	1130	G	Solid		X	X			
941-P1 (3)	8/10/21	1145	G	Solid		X	X			
Pipe 32 (2)	8/10/21	1205	G	Solid		X	X			
Pipe 33 (2)	8/10/21	1215	G	Solid		X	X			
2045-P3 (3)	8/10/21	1225	G	Solid		X	X			
2045-P1 (3)	8/10/21	1235	G	Solid		X	X			
Pipe 34 (2)	8/10/21	1255	G	Solid		X	X			
Pipe 35 (2)	8/10/21	1310	G	Solid		X	X			
Pipe 36 (2)	8/10/21	1345	G	Solid		X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/11/21 1150			8-11-21 1150	
2		8-11-21 1742			8/11/21 1742	
3					8/11/21 1752	

Custody Seals Intact: Δ Yes Δ No
Custody Seal No:
Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

8/17/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins

Client Information	Sampler: IA/DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-31049-9562 3
Client Contact: Mark Schaeffer	Phone:	E-Mail: Loran Carter@eurofinset com	State of Origin: PA	Page: Page 3 of 8
Company: Stantec Consulting Corp	PWSID:			Job #
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: [redacted] 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Loaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Loaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	A		
Pipe 37 (2)	8/10/21	1355	G	Solid		X	X			
Pipe 38 (2)	8/10/21	1405	G	Solid		X	X			
Pipe 39 (2)	8/10/21	1420	G	Solid		X	X			
Pipe 40 (2)	8/10/21	1435	G	Solid		X	X			
2040 - P2 (3)	8/11/21	0825	G	Solid		X	X			
2040 - P3 (3)	8/11/21	0835	G	Solid		X	X			
2040 - P4 (3)	8/11/21	0845	G	Solid		X	X			
2040 - P5 (3)	8/11/21	0910	G	Solid		X	X			
Pipe 31 (2)	8/11/21	0925	G	Solid		X	X			
Pipe 26 (2)	8/11/21	0945	G	Solid		X	X			
4847 - P4 (3)	8/11/21	1100	G	Solid		X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/11/21 1150	Stantec	[signature]	8/11/21 1150	
2	[signature]	8-11-21 1742				
3				[signature]	8/11/21 1752	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

TK

TK

8/17/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: TA/DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-31049-9562.4
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 4 of 8
Company: Stantec Consulting Corp	PWSID:	Analysis Requested		Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			Other:
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	N	N	A	X	
2040-P1 (3)	8/11/21	1130	G	Solid		X	X			
Pipe 28 (2)	8/11/21	1145	G	Solid		X	X			
Trip Blank	8/11/21	—	G	Solid				X		
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/11/21 1150	Stantec		8/11/21 1150	
2		8/11/21 1150	Stantec		8-11-21 1150	
3		8-11-21 1742			8/11/21 1752	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-50879-1

Login Number: 50879

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Knoedler, Christine M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-51060-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/19/2021 2:48:15 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
8/19/2021 2:48:15 PM

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Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
FL	MS and/or MSD recovery below control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
FL	MS and/or MSD recovery below control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Job ID: 410-51060-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-51060-1

Receipt
The samples were received on 8/12/2021 5:42 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: Pipe 27 (2) (410-51060-1) and Pipe 30 (2) (410-51060-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: Pipe 44 (2) (410-51060-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Client Sample ID: Pipe 27 (2) — Lab Sample ID: 410-51060-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	8.4	J	23	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	5.4	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	40		1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 29 (2) — Lab Sample ID: 410-51060-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1000		590	47	ug/Kg	50	☼	8260C	Total/NA
1,2-Dichloroethane	95	J	590	71	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	18000		590	59	ug/Kg	50	☼	8260C	Total/NA
Toluene	4100		590	71	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	10000		1200	170	ug/Kg	50	☼	8260C	Total/NA
Benzene	660		590	59	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	4800		590	240	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	10000		590	59	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	240	J	590	47	ug/Kg	50	☼	8260C	Total/NA
Anthracene	660		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	21	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	11	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	20	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	17	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	87		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	2500		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	3200		28	6.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1300		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Lead	22		2.1	0.85	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP-7 — Lab Sample ID: 410-51060-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1600		670	53	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	34000		670	67	ug/Kg	50	☼	8260C	Total/NA
Toluene	180	J	670	80	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	23000		1300	190	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	3100		670	270	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	2400		670	53	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	100000		6700	670	ug/Kg	500	☼	8260C	Total/NA
Anthracene	690		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	22	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	10	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	22	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	14	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	75		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	2200		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	3000		28	6.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1100		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Lead	24	FL	1.8	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 30 (2) — Lab Sample ID: 410-51060-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	210	J	690	69	ug/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 30 (2) (Continued) — Lab Sample ID: 410-51060-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	88	J	690	83	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	330	J	690	69	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	6.7	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.5	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	9.8	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	34		30	7.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	11	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Lead	54		2.4	0.97	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 4 (2) — Lab Sample ID: 410-51060-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	4.1	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Lead	14		1.1	0.45	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 44 (2) — Lab Sample ID: 410-51060-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	140	J	770	77	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	220	J	770	77	ug/Kg	50	☼	8260C	Total/NA
Anthracene	290		31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	30	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	18	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	33		31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	23	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	68		31	6.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	250		31	6.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	470		31	7.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	710		31	6.2	ug/Kg	1	☼	8270D	Total/NA
Lead	32		2.1	0.86	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1044-P5 (3) — Lab Sample ID: 410-51060-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	39		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	17	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	24		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	33		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	22	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	28		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	36		24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	34		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Lead	120		1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 649-P3 (3) — Lab Sample ID: 410-51060-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	86		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	240		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	190		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	220		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	130		22	4.5	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 649-P3 (3) (Continued) — Lab Sample ID: 410-51060-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	230		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	24		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	360		22	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	460		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	230		1.6	0.63	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 649-P1 (3) — Lab Sample ID: 410-51060-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.4	J	10	1.2	ug/Kg	1	☼	8260C	Total/NA
Toluene	8.2	J	10	1.2	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	9.6	J	20	2.9	ug/Kg	1	☼	8260C	Total/NA
Benzene	7.5	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.1	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	20	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	25	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	35		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	32		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	27		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	31		26	6.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	31		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Lead	83		2.1	0.82	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 649-P2 (3) — Lab Sample ID: 410-51060-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.5	J	8.0	0.97	ug/Kg	1	☼	8260C	Total/NA
Toluene	3.1	J	8.0	0.97	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.0	J	8.0	0.80	ug/Kg	1	☼	8260C	Total/NA
Anthracene	42		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	830		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	920		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1100		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	600		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	780		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	6.5	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	75		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1300		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	46		1.5	0.58	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 649-P4 (3) — Lab Sample ID: 410-51060-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	2.3	J	7.6	0.91	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.1	J	7.6	0.76	ug/Kg	1	☼	8260C	Total/NA
Toluene	19		7.6	0.91	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	11	J	15	2.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	13		7.6	0.76	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.8	J	7.6	0.76	ug/Kg	1	☼	8260C	Total/NA
Anthracene	11	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	24		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	28		22	4.4	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 649-P4 (3) (Continued)

Lab Sample ID: 410-51060-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	50		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	31		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	40		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	41		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	42		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	580		1.8	0.73	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 64 (2)

Lab Sample ID: 410-51060-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.9	J	9.6	1.2	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.2	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	15	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	15	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	20	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	11	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	15	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	16	J	24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	23	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Lead	190		2.1	0.83	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 66 (2)

Lab Sample ID: 410-51060-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	4.5	J	8.8	1.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.2	J	8.8	0.88	ug/Kg	1	☼	8260C	Total/NA
Anthracene	5.4	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	16	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	17	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	25		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	17	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	18	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	22	J	24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	24		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Lead	180		1.8	0.73	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 65 (2)

Lab Sample ID: 410-51060-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.84	J	8.0	0.80	ug/Kg	1	☼	8260C	Total/NA
Anthracene	16	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	25		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	25		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	34		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	21	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	35		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	11	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	74		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	65		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	44		1.9	0.76	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Client Sample ID: Trip Blank **Lab Sample ID: 410-51060-15**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 27 (2)

Lab Sample ID: 410-51060-1

Date Collected: 08/11/21 13:00
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 72.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		770	61	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
1,2-Dichloroethane	ND		770	92	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
1,3,5-Trimethylbenzene	ND		770	77	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
Toluene	ND		770	92	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
Xylenes, Total	ND		1500	210	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
Methyl tertiary butyl ether	ND		770	77	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
Benzene	ND		770	77	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
Naphthalene	ND		770	310	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
1,2,4-Trimethylbenzene	ND		770	77	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
Isopropylbenzene	ND		770	61	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
1,2-Dibromoethane	ND		770	61	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*54 - 135*	*08/13/21 10:25*	*08/17/21 18:15*	*50*
4-Bromofluorobenzene (Surr)	*79*		*50 - 131*	*08/13/21 10:25*	*08/17/21 18:15*	*50*
Dibromofluoromethane (Surr)	*81*		*50 - 141*	*08/13/21 10:25*	*08/17/21 18:15*	*50*
Toluene-d8 (Surr)	*81*		*52 - 141*	*08/13/21 10:25*	*08/17/21 18:15*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Benzo[a]anthracene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Benzo[a]pyrene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Benzo[b]fluoranthene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Benzo[g,h,i]perylene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Chrysene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Fluorene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Phenanthrene	**8.4**	**J**	23	5.4	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Pyrene	**5.4**	**J**	23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/14/21 08:45*	*08/16/21 15:48*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/14/21 08:45*	*08/16/21 15:48*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/14/21 08:45*	*08/16/21 15:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**40**		1.7	0.69	mg/Kg	☼	08/13/21 12:16	08/17/21 13:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.2**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 29 (2)

Lab Sample ID: 410-51060-2

Date Collected: 08/11/21 13:15
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 59.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**1000**		590	47	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
1,2-Dichloroethane	**95**	**J**	590	71	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50

Client Sample ID: Pipe 29 (2)

Lab Sample ID: 410-51060-2

Date Collected: 08/11/21 13:15
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 59.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	18000		590	59	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
Toluene	4100		590	71	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
Xylenes, Total	10000		1200	170	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
Methyl tertiary butyl ether	ND		590	59	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
Benzene	660		590	59	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
Naphthalene	4800		590	240	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
1,2,4-Trimethylbenzene	10000		590	59	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
Isopropylbenzene	240	J	590	47	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
1,2-Dibromoethane	ND		590	47	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*54 - 135*	*08/13/21 10:25*	*08/17/21 18:36*	*50*
4-Bromofluorobenzene (Surr)	*68*		*50 - 131*	*08/13/21 10:25*	*08/17/21 18:36*	*50*
Dibromofluoromethane (Surr)	*67*		*50 - 141*	*08/13/21 10:25*	*08/17/21 18:36*	*50*
Toluene-d8 (Surr)	*67*		*52 - 141*	*08/13/21 10:25*	*08/17/21 18:36*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	660		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Benzo[a]anthracene	21	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Benzo[a]pyrene	11	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Benzo[b]fluoranthene	20	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Benzo[g,h,i]perylene	17	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Chrysene	87		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Fluorene	2500		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Phenanthrene	3200		28	6.7	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Pyrene	1300		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*39 - 100*	*08/14/21 08:45*	*08/16/21 16:11*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/14/21 08:45*	*08/16/21 16:11*	*1*
p-Terphenyl-d14 (Surr)	*68*		*45 - 108*	*08/14/21 08:45*	*08/16/21 16:11*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	22		2.1	0.85	mg/Kg	☼	08/13/21 12:16	08/17/21 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	40.8		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: DUP-7

Lab Sample ID: 410-51060-3

Date Collected: 08/11/21 00:00
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 59.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1600		670	53	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
1,2-Dichloroethane	ND		670	80	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
1,3,5-Trimethylbenzene	34000		670	67	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
Toluene	180	J	670	80	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Client Sample ID: DUP-7
Date Collected: 08/11/21 00:00
Date Received: 08/12/21 17:42

Lab Sample ID: 410-51060-3
Matrix: Solid
Percent Solids: 59.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	23000		1300	190	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
Methyl tertiary butyl ether	ND		670	67	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
Benzene	ND		670	67	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
Naphthalene	3100		670	270	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
Isopropylbenzene	2400		670	53	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
1,2-Dibromoethane	ND		670	53	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*	*08/13/21 10:25*	*08/18/21 18:45*	*50*
4-Bromofluorobenzene (Surr)	*110*		*50 - 131*	*08/13/21 10:25*	*08/18/21 18:45*	*50*
Dibromofluoromethane (Surr)	*75*		*50 - 141*	*08/13/21 10:25*	*08/18/21 18:45*	*50*
Toluene-d8 (Surr)	*88*		*52 - 141*	*08/13/21 10:25*	*08/18/21 18:45*	*50*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	100000		6700	670	ug/Kg	☼	08/13/21 10:25	08/18/21 19:06	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*	*08/13/21 10:25*	*08/18/21 19:06*	*500*
4-Bromofluorobenzene (Surr)	*153*	*S1+*	*50 - 131*	*08/13/21 10:25*	*08/18/21 19:06*	*500*
Dibromofluoromethane (Surr)	*85*		*50 - 141*	*08/13/21 10:25*	*08/18/21 19:06*	*500*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/13/21 10:25*	*08/18/21 19:06*	*500*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	690		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Benzo[a]anthracene	22	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Benzo[a]pyrene	10	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Benzo[b]fluoranthene	22	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Benzo[g,h,i]perylene	14	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Chrysene	75		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Fluorene	2200		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Phenanthrene	3000		28	6.7	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Pyrene	1100		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*45*		*39 - 100*	*08/14/21 08:45*	*08/16/21 16:33*	*1*
Nitrobenzene-d5 (Surr)	*39*		*32 - 97*	*08/14/21 08:45*	*08/16/21 16:33*	*1*
p-Terphenyl-d14 (Surr)	*66*		*45 - 108*	*08/14/21 08:45*	*08/16/21 16:33*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24	FL	1.8	0.74	mg/Kg	☼	08/13/21 12:16	08/17/21 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	40.3		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 30 (2)

Lab Sample ID: 410-51060-4

Date Collected: 08/11/21 13:40
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 54.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		690	55	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
1,2-Dichloroethane	ND		690	83	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
1,3,5-Trimethylbenzene	**210**	**J**	690	69	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
Toluene	**88**	**J**	690	83	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
Xylenes, Total	ND		1400	190	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
Methyl tertiary butyl ether	ND		690	69	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
Benzene	ND		690	69	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
Naphthalene	ND		690	280	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
1,2,4-Trimethylbenzene	**330**	**J**	690	69	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
Isopropylbenzene	ND		690	55	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
1,2-Dibromoethane	ND		690	55	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*54 - 135*	*08/13/21 10:25*	*08/17/21 19:18*	*50*
4-Bromofluorobenzene (Surr)	*76*		*50 - 131*	*08/13/21 10:25*	*08/17/21 19:18*	*50*
Dibromofluoromethane (Surr)	*80*		*50 - 141*	*08/13/21 10:25*	*08/17/21 19:18*	*50*
Toluene-d8 (Surr)	*80*		*52 - 141*	*08/13/21 10:25*	*08/17/21 19:18*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Benzo[a]anthracene	**6.7**	**J**	30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Benzo[a]pyrene	ND		30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Benzo[b]fluoranthene	ND		30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Benzo[g,h,i]perylene	**8.5**	**J**	30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Chrysene	**13**	**J**	30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Fluorene	**9.8**	**J**	30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Phenanthrene	**34**		30	7.2	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Pyrene	**11**	**J**	30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/14/21 08:45*	*08/16/21 16:56*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/14/21 08:45*	*08/16/21 16:56*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*08/14/21 08:45*	*08/16/21 16:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**54**		2.4	0.97	mg/Kg	☼	08/13/21 12:16	08/17/21 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**45.2**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 4 (2)

Lab Sample ID: 410-51060-5

Date Collected: 08/11/21 13:55
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.4	0.43	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
1,2-Dichloroethane	ND		5.4	0.65	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1

Client Sample ID: Pipe 4 (2)

Date Collected: 08/11/21 13:55
Date Received: 08/12/21 17:42

Lab Sample ID: 410-51060-5

Matrix: Solid
Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.4	0.54	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
Toluene	ND		5.4	0.65	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
Methyl tertiary butyl ether	ND		5.4	0.54	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
Benzene	ND		5.4	0.54	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
Naphthalene	ND		5.4	2.2	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
1,2,4-Trimethylbenzene	ND		5.4	0.54	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
Isopropylbenzene	ND		5.4	0.43	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
1,2-Dibromoethane	ND		5.4	0.43	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/13/21 10:27*	*08/16/21 19:53*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*08/13/21 10:27*	*08/16/21 19:53*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/13/21 10:27*	*08/16/21 19:53*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/13/21 10:27*	*08/16/21 19:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Benzo[a]anthracene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Benzo[a]pyrene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Benzo[b]fluoranthene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Benzo[g,h,i]perylene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Chrysene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Fluorene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Phenanthrene	ND		18	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Pyrene	**4.1**	**J**	18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/14/21 08:45*	*08/16/21 17:18*	*1*
Nitrobenzene-d5 (Surr)	*70*		*32 - 97*	*08/14/21 08:45*	*08/16/21 17:18*	*1*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*	*08/14/21 08:45*	*08/16/21 17:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		1.1	0.45	mg/Kg	☼	08/13/21 12:16	08/17/21 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.0**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 44 (2)

Date Collected: 08/11/21 14:40
Date Received: 08/12/21 17:42

Lab Sample ID: 410-51060-6

Matrix: Solid
Percent Solids: 53.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		770	61	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
1,2-Dichloroethane	ND		770	92	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
1,3,5-Trimethylbenzene	**140**	**J**	770	77	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
Toluene	ND		770	92	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50

Client Sample ID: Pipe 44 (2)

Lab Sample ID: 410-51060-6

Date Collected: 08/11/21 14:40
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 53.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		1500	210	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
Methyl tertiary butyl ether	ND		770	77	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
Benzene	ND		770	77	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
Naphthalene	ND		770	310	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
1,2,4-Trimethylbenzene	**220**	**J**	770	77	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
Isopropylbenzene	ND		770	61	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
1,2-Dibromoethane	ND		770	61	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*08/13/21 10:25*	*08/18/21 19:26*	*50*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/13/21 10:25*	*08/18/21 19:26*	*50*
Dibromofluoromethane (Surr)	*69*		*50 - 141*	*08/13/21 10:25*	*08/18/21 19:26*	*50*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/13/21 10:25*	*08/18/21 19:26*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**290**		31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Benzo[a]anthracene	**30**	**J**	31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Benzo[a]pyrene	**18**	**J**	31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Benzo[b]fluoranthene	**33**		31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Benzo[g,h,i]perylene	**23**	**J**	31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Chrysene	**68**		31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Fluorene	**250**		31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Phenanthrene	**470**		31	7.4	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Pyrene	**710**		31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*57*		*39 - 100*	*08/14/21 08:45*	*08/16/21 17:40*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*08/14/21 08:45*	*08/16/21 17:40*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*08/14/21 08:45*	*08/16/21 17:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**32**		2.1	0.86	mg/Kg	☼	08/13/21 12:16	08/17/21 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**46.7**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: 1044-P5 (3)

Lab Sample ID: 410-51060-7

Date Collected: 08/12/21 09:00
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 69.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.80	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
1,2-Dichloroethane	ND		10	1.2	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
Toluene	ND		10	1.2	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
Xylenes, Total	ND		20	2.8	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
Methyl tertiary butyl ether	ND		10	1.0	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1

Client Sample ID: 1044-P5 (3)

Lab Sample ID: 410-51060-7

Date Collected: 08/12/21 09:00
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 69.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10	1.0	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
Naphthalene	ND		10	4.0	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
1,2,4-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
Isopropylbenzene	ND		10	0.80	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
1,2-Dibromoethane	ND		10	0.80	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/13/21 10:27*	*08/19/21 14:46*	*1*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/13/21 10:27*	*08/19/21 14:46*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*08/13/21 10:27*	*08/19/21 14:46*	*1*
Toluene-d8 (Surr)	*107*		*52 - 141*	*08/13/21 10:27*	*08/19/21 14:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**39**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Benzo[a]anthracene	**17**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Benzo[a]pyrene	**24**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Benzo[b]fluoranthene	**33**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Benzo[g,h,i]perylene	**22**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Chrysene	**28**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Fluorene	ND		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Phenanthrene	**36**		24	5.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Pyrene	**34**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*39 - 100*	*08/14/21 08:45*	*08/16/21 18:03*	*1*
Nitrobenzene-d5 (Surr)	*59*		*32 - 97*	*08/14/21 08:45*	*08/16/21 18:03*	*1*
p-Terphenyl-d14 (Surr)	*72*		*45 - 108*	*08/14/21 08:45*	*08/16/21 18:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**120**		1.5	0.59	mg/Kg	☼	08/13/21 12:16	08/17/21 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.9**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: 649-P3 (3)

Lab Sample ID: 410-51060-8

Date Collected: 08/12/21 09:30
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 74.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.3	0.66	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
1,2-Dichloroethane	ND		8.3	0.99	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
1,3,5-Trimethylbenzene	ND		8.3	0.83	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
Toluene	ND		8.3	0.99	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
Xylenes, Total	ND		17	2.3	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
Methyl tertiary butyl ether	ND		8.3	0.83	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
Benzene	ND		8.3	0.83	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
Naphthalene	ND		8.3	3.3	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1

Client Sample ID: 649-P3 (3)

Lab Sample ID: 410-51060-8

Date Collected: 08/12/21 09:30
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 74.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		8.3	0.83	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
Isopropylbenzene	ND		8.3	0.66	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
1,2-Dibromoethane	ND		8.3	0.66	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/13/21 10:27*	*08/16/21 16:48*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/13/21 10:27*	*08/16/21 16:48*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/13/21 10:27*	*08/16/21 16:48*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/13/21 10:27*	*08/16/21 16:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**86**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Benzo[a]anthracene	**240**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Benzo[a]pyrene	**190**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Benzo[b]fluoranthene	**220**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Benzo[g,h,i]perylene	**130**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Chrysene	**230**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Fluorene	**24**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Phenanthrene	**360**		22	5.4	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Pyrene	**460**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*08/14/21 08:45*	*08/16/21 18:25*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/14/21 08:45*	*08/16/21 18:25*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*08/14/21 08:45*	*08/16/21 18:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**230**		1.6	0.63	mg/Kg	☼	08/13/21 12:16	08/17/21 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.9**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: 649-P1 (3)

Lab Sample ID: 410-51060-9

Date Collected: 08/12/21 09:50
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 63.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.82	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
1,2-Dichloroethane	**1.4**	**J**	10	1.2	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
Toluene	**8.2**	**J**	10	1.2	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
Xylenes, Total	**9.6**	**J**	20	2.9	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
Methyl tertiary butyl ether	ND		10	1.0	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
Benzene	**7.5**	**J**	10	1.0	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
Naphthalene	ND		10	4.1	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
1,2,4-Trimethylbenzene	**1.1**	**J**	10	1.0	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
Isopropylbenzene	ND		10	0.82	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1

Client Sample ID: 649-P1 (3)

Lab Sample ID: 410-51060-9

Date Collected: 08/12/21 09:50
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 63.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		10	0.82	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*54 - 135*	*08/13/21 10:27*	*08/16/21 20:16*	*1*
4-Bromofluorobenzene (Surr)	*85*		*50 - 131*	*08/13/21 10:27*	*08/16/21 20:16*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/13/21 10:27*	*08/16/21 20:16*	*1*
Toluene-d8 (Surr)	*106*		*52 - 141*	*08/13/21 10:27*	*08/16/21 20:16*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Benzo[a]anthracene	**20**	**J**	26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Benzo[a]pyrene	**25**	**J**	26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Benzo[b]fluoranthene	**35**		26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Benzo[g,h,i]perylene	**32**		26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Chrysene	**27**		26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Fluorene	ND		26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Phenanthrene	**31**		26	6.3	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Pyrene	**31**		26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*39 - 100*	*08/14/21 08:45*	*08/16/21 18:48*	*1*
Nitrobenzene-d5 (Surr)	*58*		*32 - 97*	*08/14/21 08:45*	*08/16/21 18:48*	*1*
p-Terphenyl-d14 (Surr)	*81*		*45 - 108*	*08/14/21 08:45*	*08/16/21 18:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**83**		2.1	0.82	mg/Kg	☼	08/13/21 12:16	08/17/21 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**36.7**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: 649-P2 (3)

Lab Sample ID: 410-51060-10

Date Collected: 08/12/21 10:05
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 79.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.0	0.64	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
1,2-Dichloroethane	**1.5**	**J**	8.0	0.97	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
1,3,5-Trimethylbenzene	ND		8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
Toluene	**3.1**	**J**	8.0	0.97	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
Xylenes, Total	ND		16	2.3	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
Methyl tertiary butyl ether	ND		8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
Benzene	**3.0**	**J**	8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
Naphthalene	ND		8.0	3.2	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
1,2,4-Trimethylbenzene	ND		8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
Isopropylbenzene	ND		8.0	0.64	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
1,2-Dibromoethane	ND		8.0	0.64	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1

Client Sample ID: 649-P2 (3)

Lab Sample ID: 410-51060-10

Date Collected: 08/12/21 10:05
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 79.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		54 - 135	08/13/21 10:27	08/16/21 20:39	1
4-Bromofluorobenzene (Surr)	88		50 - 131	08/13/21 10:27	08/16/21 20:39	1
Dibromofluoromethane (Surr)	106		50 - 141	08/13/21 10:27	08/16/21 20:39	1
Toluene-d8 (Surr)	106		52 - 141	08/13/21 10:27	08/16/21 20:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	42		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Benzo[a]anthracene	830		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Benzo[a]pyrene	920		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Benzo[b]fluoranthene	1100		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Benzo[g,h,i]perylene	600		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Chrysene	780		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Fluorene	6.5	J	21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Phenanthrene	75		21	5.0	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Pyrene	1300		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79		39 - 100	08/14/21 08:45	08/16/21 19:10	1
Nitrobenzene-d5 (Surr)	64		32 - 97	08/14/21 08:45	08/16/21 19:10	1
p-Terphenyl-d14 (Surr)	79		45 - 108	08/14/21 08:45	08/16/21 19:10	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	46		1.5	0.58	mg/Kg	☼	08/13/21 12:16	08/17/21 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.9		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: 649-P4 (3)

Lab Sample ID: 410-51060-11

Date Collected: 08/12/21 10:30
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 75.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.6	0.61	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
1,2-Dichloroethane	2.3	J	7.6	0.91	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
1,3,5-Trimethylbenzene	1.1	J	7.6	0.76	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
Toluene	19		7.6	0.91	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
Xylenes, Total	11	J	15	2.1	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
Methyl tertiary butyl ether	ND		7.6	0.76	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
Benzene	13		7.6	0.76	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
Naphthalene	ND		7.6	3.0	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
1,2,4-Trimethylbenzene	1.8	J	7.6	0.76	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
Isopropylbenzene	ND		7.6	0.61	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
1,2-Dibromoethane	ND		7.6	0.61	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		54 - 135	08/13/21 10:27	08/16/21 17:57	1
4-Bromofluorobenzene (Surr)	88		50 - 131	08/13/21 10:27	08/16/21 17:57	1
Dibromofluoromethane (Surr)	103		50 - 141	08/13/21 10:27	08/16/21 17:57	1

Client Sample ID: 649-P4 (3)

Lab Sample ID: 410-51060-11

Date Collected: 08/12/21 10:30
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 75.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*52 - 141*	*08/13/21 10:27*	*08/16/21 17:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**11**	**J**	22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Benzo[a]anthracene	**24**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Benzo[a]pyrene	**28**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Benzo[b]fluoranthene	**50**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Benzo[g,h,i]perylene	**31**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Chrysene	**40**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Fluorene	ND		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Phenanthrene	**41**		22	5.3	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Pyrene	**42**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/14/21 08:45*	*08/16/21 19:33*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/14/21 08:45*	*08/16/21 19:33*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*08/14/21 08:45*	*08/16/21 19:33*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**580**		1.8	0.73	mg/Kg	☼	08/13/21 12:16	08/17/21 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.0**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 64 (2)

Lab Sample ID: 410-51060-12

Date Collected: 08/12/21 10:45
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 68.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	0.77	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
1,2-Dichloroethane	ND		9.6	1.2	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
1,3,5-Trimethylbenzene	ND		9.6	0.96	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
Toluene	**1.9**	**J**	9.6	1.2	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
Xylenes, Total	ND		19	2.7	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
Methyl tertiary butyl ether	ND		9.6	0.96	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
Benzene	**2.2**	**J**	9.6	0.96	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
Naphthalene	ND		9.6	3.9	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
1,2,4-Trimethylbenzene	ND		9.6	0.96	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
Isopropylbenzene	ND		9.6	0.77	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
1,2-Dibromoethane	ND		9.6	0.77	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/13/21 10:27*	*08/16/21 21:02*	*1*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*	*08/13/21 10:27*	*08/16/21 21:02*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*	*08/13/21 10:27*	*08/16/21 21:02*	*1*
Toluene-d8 (Surr)	*107*		*52 - 141*	*08/13/21 10:27*	*08/16/21 21:02*	*1*

Client Sample ID: Pipe 64 (2)

Date Collected: 08/12/21 10:45
Date Received: 08/12/21 17:42

Lab Sample ID: 410-51060-12

Matrix: Solid
Percent Solids: 68.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Benzo[a]anthracene	**15**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Benzo[a]pyrene	**15**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Benzo[b]fluoranthene	**20**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Benzo[g,h,i]perylene	**11**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Chrysene	**15**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Fluorene	ND		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Phenanthrene	**16**	**J**	24	5.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Pyrene	**23**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*	*08/14/21 08:45*	*08/16/21 19:55*	*1*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*	*08/14/21 08:45*	*08/16/21 19:55*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/14/21 08:45*	*08/16/21 19:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**190**		2.1	0.83	mg/Kg	☼	08/13/21 12:16	08/17/21 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.5**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 66 (2)

Date Collected: 08/12/21 11:10
Date Received: 08/12/21 17:42

Lab Sample ID: 410-51060-13

Matrix: Solid
Percent Solids: 68.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.8	0.70	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
1,2-Dichloroethane	ND		8.8	1.1	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
1,3,5-Trimethylbenzene	ND		8.8	0.88	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
Toluene	**4.5**	**J**	8.8	1.1	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
Xylenes, Total	ND		18	2.5	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
Methyl tertiary butyl ether	ND		8.8	0.88	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
Benzene	**3.2**	**J**	8.8	0.88	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
Naphthalene	ND		8.8	3.5	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
1,2,4-Trimethylbenzene	ND		8.8	0.88	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
Isopropylbenzene	ND		8.8	0.70	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
1,2-Dibromoethane	ND		8.8	0.70	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*54 - 135*	*08/13/21 10:27*	*08/16/21 21:25*	*1*
4-Bromofluorobenzene (Surr)	*85*		*50 - 131*	*08/13/21 10:27*	*08/16/21 21:25*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/13/21 10:27*	*08/16/21 21:25*	*1*
Toluene-d8 (Surr)	*107*		*52 - 141*	*08/13/21 10:27*	*08/16/21 21:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**5.4**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Benzo[a]anthracene	**16**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1

Client Sample ID: Pipe 66 (2)

Lab Sample ID: 410-51060-13

Date Collected: 08/12/21 11:10

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 68.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**17**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Benzo[b]fluoranthene	**25**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Benzo[g,h,i]perylene	**17**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Chrysene	**18**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Fluorene	ND		24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Phenanthrene	**22**	**J**	24	5.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Pyrene	**24**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*39 - 100*	*08/14/21 08:45*	*08/17/21 00:40*	*1*
Nitrobenzene-d5 (Surr)	*52*		*32 - 97*	*08/14/21 08:45*	*08/17/21 00:40*	*1*
p-Terphenyl-d14 (Surr)	*75*		*45 - 108*	*08/14/21 08:45*	*08/17/21 00:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**180**		1.8	0.73	mg/Kg	☼	08/13/21 12:16	08/17/21 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.3**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 65 (2)

Lab Sample ID: 410-51060-14

Date Collected: 08/12/21 11:20

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 74.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.0	0.64	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
1,2-Dichloroethane	ND		8.0	0.96	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
1,3,5-Trimethylbenzene	ND		8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
Toluene	ND		8.0	0.96	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
Xylenes, Total	ND		16	2.2	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
Methyl tertiary butyl ether	ND		8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
Benzene	**0.84**	**J**	8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
Naphthalene	ND		8.0	3.2	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
1,2,4-Trimethylbenzene	ND		8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
Isopropylbenzene	ND		8.0	0.64	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
1,2-Dibromoethane	ND		8.0	0.64	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/13/21 10:27*	*08/18/21 18:37*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/13/21 10:27*	*08/18/21 18:37*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/13/21 10:27*	*08/18/21 18:37*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/13/21 10:27*	*08/18/21 18:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**16**	**J**	22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Benzo[a]anthracene	**25**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Benzo[a]pyrene	**25**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Benzo[b]fluoranthene	**34**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1

Client Sample ID: Pipe 65 (2)

Lab Sample ID: 410-51060-14

Date Collected: 08/12/21 11:20
Date Received: 08/12/21 17:42

Matrix: Solid
Percent Solids: 74.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	21	J	22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Chrysene	35		22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Fluorene	11	J	22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Phenanthrene	74		22	5.3	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Pyrene	65		22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*	*08/14/21 08:45*	*08/17/21 01:02*	*1*
Nitrobenzene-d5 (Surr)	*62*		*32 - 97*	*08/14/21 08:45*	*08/17/21 01:02*	*1*
p-Terphenyl-d14 (Surr)	*81*		*45 - 108*	*08/14/21 08:45*	*08/17/21 01:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	44		1.9	0.76	mg/Kg	☼	08/13/21 12:16	08/17/21 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.9		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-51060-15

Date Collected: 08/12/21 00:00
Date Received: 08/12/21 17:42

Matrix: Water

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/13/21 11:24	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/13/21 11:24	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/13/21 11:24	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/13/21 11:24	1
Toluene	ND		1.0	0.30	ug/L			08/13/21 11:24	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/13/21 11:24	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/13/21 11:24	1
Benzene	ND		1.0	0.30	ug/L			08/13/21 11:24	1
Naphthalene	ND		5.0	1.0	ug/L			08/13/21 11:24	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/13/21 11:24	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/13/21 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*08/13/21 11:24*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/13/21 11:24*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*08/13/21 11:24*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/13/21 11:24*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-51060-1	Pipe 27 (2)	84	79	81	81
410-51060-2	Pipe 29 (2)	86	68	67	67
410-51060-3	DUP-7	102	110	75	88
410-51060-3 - DL	DUP-7	102	153 S1+	85	95
410-51060-4	Pipe 30 (2)	90	76	80	80
410-51060-5	Pipe 4 (2)	116	94	106	97
410-51060-6	Pipe 44 (2)	104	91	69	95
410-51060-7	1044-P5 (3)	113	81	107	107
410-51060-8	649-P3 (3)	111	95	104	98
410-51060-9	649-P1 (3)	110	85	105	106
410-51060-10	649-P2 (3)	111	88	106	106
410-51060-11	649-P4 (3)	109	88	103	105
410-51060-12	Pipe 64 (2)	113	84	108	107
410-51060-13	Pipe 66 (2)	110	85	105	107
410-51060-14	Pipe 65 (2)	114	93	105	98
LCS 410-160723/5	Lab Control Sample	103	98	100	101
LCS 410-161178/4	Lab Control Sample	100	87	98	92
LCS 410-161724/5	Lab Control Sample	103	87	99	92
LCS 410-161737/5	Lab Control Sample	102	97	99	102
LCS 410-162254/5	Lab Control Sample	101	96	99	101
LCSD 410-160723/6	Lab Control Sample Dup	100	96	99	101
LCSD 410-161178/5	Lab Control Sample Dup	102	86	99	93
LCSD 410-161724/6	Lab Control Sample Dup	103	88	100	93
LCSD 410-161737/6	Lab Control Sample Dup	101	97	99	102
LCSD 410-162254/6	Lab Control Sample Dup	101	98	100	102
MB 410-160723/8	Method Blank	104	95	100	99
MB 410-161178/7	Method Blank	101	84	98	90
MB 410-161724/8	Method Blank	101	85	97	91
MB 410-161737/8	Method Blank	104	93	101	98
MB 410-162254/10	Method Blank	103	93	101	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-51060-15	Trip Blank	98	103	101	94
LCS 410-160096/4	Lab Control Sample	97	105	101	94
LCSD 410-160096/5	Lab Control Sample Dup	97	103	100	93
MB 410-160096/6	Method Blank	97	104	100	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Job ID: 410-51060-1
Project/Site: PBF Logistics

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)						
410-51060-1	Pipe 27 (2)	82	66	82						
410-51060-2	Pipe 29 (2)	58	69	68						
410-51060-3	DUP-7	45	39	66						
410-51060-4	Pipe 30 (2)	80	66	83						
410-51060-5	Pipe 4 (2)	84	70	88						
410-51060-6	Pipe 44 (2)	57	68	79						
410-51060-7	1044-P5 (3)	65	59	72						
410-51060-8	649-P3 (3)	79	65	79						
410-51060-9	649-P1 (3)	71	58	81						
410-51060-10	649-P2 (3)	79	64	79						
410-51060-11	649-P4 (3)	81	65	83						
410-51060-12	Pipe 64 (2)	77	60	80						
410-51060-12 MS	Pipe 64 (2)	74	64	78						
410-51060-12 MSD	Pipe 64 (2)	73	60	74						
410-51060-13	Pipe 66 (2)	66	52	75						
410-51060-14	Pipe 65 (2)	73	62	81						
LCS 410-160489/2-A	Lab Control Sample	77	65	80						
MB 410-160489/1-A	Method Blank	85	72	91						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-160723/8
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/16/21 14:05	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/16/21 14:05	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Toluene	ND		5.0	0.60	ug/Kg			08/16/21 14:05	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/16/21 14:05	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Benzene	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/16/21 14:05	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/16/21 14:05	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/16/21 14:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*08/16/21 14:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*		*08/16/21 14:05*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*		*08/16/21 14:05*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*		*08/16/21 14:05*	*1*

Lab Sample ID: LCS 410-160723/5
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	17.5		ug/Kg		87	78 - 120
1,2-Dichloroethane	20.0	18.6		ug/Kg		93	71 - 128
1,3,5-Trimethylbenzene	20.0	17.3		ug/Kg		87	73 - 120
Toluene	20.0	17.6		ug/Kg		88	80 - 120
Xylenes, Total	60.0	52.7		ug/Kg		88	75 - 120
Methyl tertiary butyl ether	20.0	20.5		ug/Kg		102	72 - 120
Benzene	20.0	18.4		ug/Kg		92	80 - 120
Naphthalene	20.0	18.2		ug/Kg		91	48 - 130
1,2,4-Trimethylbenzene	20.0	17.6		ug/Kg		88	73 - 120
Isopropylbenzene	20.0	17.3		ug/Kg		86	77 - 120
1,2-Dibromoethane	20.0	19.1		ug/Kg		96	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: LCSD 410-160723/6
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	17.7		ug/Kg		89	78 - 120	1	30
1,2-Dichloroethane	20.0	18.2		ug/Kg		91	71 - 128	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-160723/6
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	17.7		ug/Kg		88	73 - 120	2	30
Toluene			20.0	17.7		ug/Kg		89	80 - 120	1	30
Xylenes, Total			60.0	53.3		ug/Kg		89	75 - 120	1	30
Methyl tertiary butyl ether			20.0	19.6		ug/Kg		98	72 - 120	4	30
Benzene			20.0	18.3		ug/Kg		92	80 - 120	1	30
Naphthalene			20.0	17.0		ug/Kg		85	48 - 130	6	30
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		90	73 - 120	2	30
Isopropylbenzene			20.0	17.4		ug/Kg		87	77 - 120	1	30
1,2-Dibromoethane			20.0	18.6		ug/Kg		93	76 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: MB 410-161178/7
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/17/21 10:51	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/17/21 10:51	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/17/21 10:51	50
Toluene	ND		250	30	ug/Kg			08/17/21 10:51	50
Xylenes, Total	ND		500	70	ug/Kg			08/17/21 10:51	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/17/21 10:51	50
Benzene	ND		250	25	ug/Kg			08/17/21 10:51	50
Naphthalene	ND		250	100	ug/Kg			08/17/21 10:51	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/17/21 10:51	50
Isopropylbenzene	ND		250	20	ug/Kg			08/17/21 10:51	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/17/21 10:51	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*		*08/17/21 10:51*	*50*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*		*08/17/21 10:51*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*08/17/21 10:51*	*50*
Toluene-d8 (Surr)	*90*		*52 - 141*		*08/17/21 10:51*	*50*

Lab Sample ID: LCS 410-161178/4
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	949		ug/Kg		95	78 - 120
1,2-Dichloroethane			1000	950		ug/Kg		95	71 - 128
1,3,5-Trimethylbenzene			1000	871		ug/Kg		87	73 - 120
Toluene			1000	974		ug/Kg		97	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-161178/4
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			3000	2960		ug/Kg		99	75 - 120		
Methyl tertiary butyl ether			1000	988		ug/Kg		99	72 - 120		
Benzene			1000	1000		ug/Kg		100	80 - 120		
Naphthalene			1000	922		ug/Kg		92	48 - 130		
1,2,4-Trimethylbenzene			1000	871		ug/Kg		87	73 - 120		
Isopropylbenzene			1000	980		ug/Kg		98	77 - 120		
1,2-Dibromoethane			1000	993		ug/Kg		99	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*98*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: LCSD 410-161178/5
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	960		ug/Kg		96	78 - 120	1	30
1,2-Dichloroethane			1000	926		ug/Kg		93	71 - 128	3	30
1,3,5-Trimethylbenzene			1000	885		ug/Kg		89	73 - 120	2	30
Toluene			1000	970		ug/Kg		97	80 - 120	0	30
Xylenes, Total			3000	2940		ug/Kg		98	75 - 120	1	30
Methyl tertiary butyl ether			1000	1000		ug/Kg		100	72 - 120	1	30
Benzene			1000	1020		ug/Kg		102	80 - 120	2	30
Naphthalene			1000	930		ug/Kg		93	48 - 130	1	30
1,2,4-Trimethylbenzene			1000	873		ug/Kg		87	73 - 120	0	30
Isopropylbenzene			1000	985		ug/Kg		98	77 - 120	0	30
1,2-Dibromoethane			1000	992		ug/Kg		99	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*93*		*52 - 141*

Lab Sample ID: MB 410-161724/8
Matrix: Solid
Analysis Batch: 161724

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/18/21 13:23	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/18/21 13:23	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/18/21 13:23	50
Toluene	ND		250	30	ug/Kg			08/18/21 13:23	50
Xylenes, Total	ND		500	70	ug/Kg			08/18/21 13:23	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/18/21 13:23	50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-161724/8
Matrix: Solid
Analysis Batch: 161724

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		250	25	ug/Kg			08/18/21 13:23	50
Naphthalene	ND		250	100	ug/Kg			08/18/21 13:23	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/18/21 13:23	50
Isopropylbenzene	ND		250	20	ug/Kg			08/18/21 13:23	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/18/21 13:23	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*		*08/18/21 13:23*	*50*
4-Bromofluorobenzene (Surr)	*85*		*50 - 131*		*08/18/21 13:23*	*50*
Dibromofluoromethane (Surr)	*97*		*50 - 141*		*08/18/21 13:23*	*50*
Toluene-d8 (Surr)	*91*		*52 - 141*		*08/18/21 13:23*	*50*

Lab Sample ID: LCS 410-161724/5
Matrix: Solid
Analysis Batch: 161724

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	944		ug/Kg		94	78 - 120		
1,2-Dichloroethane			1000	944		ug/Kg		94	71 - 128		
1,3,5-Trimethylbenzene			1000	864		ug/Kg		86	73 - 120		
Toluene			1000	965		ug/Kg		97	80 - 120		
Xylenes, Total			3000	2940		ug/Kg		98	75 - 120		
Methyl tertiary butyl ether			1000	1010		ug/Kg		101	72 - 120		
Benzene			1000	1020		ug/Kg		102	80 - 120		
Naphthalene			1000	932		ug/Kg		93	48 - 130		
1,2,4-Trimethylbenzene			1000	861		ug/Kg		86	73 - 120		
Isopropylbenzene			1000	981		ug/Kg		98	77 - 120		
1,2-Dibromoethane			1000	990		ug/Kg		99	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: LCSD 410-161724/6
Matrix: Solid
Analysis Batch: 161724

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	959		ug/Kg		96	78 - 120	2	30
1,2-Dichloroethane			1000	938		ug/Kg		94	71 - 128	1	30
1,3,5-Trimethylbenzene			1000	883		ug/Kg		88	73 - 120	2	30
Toluene			1000	990		ug/Kg		99	80 - 120	3	30
Xylenes, Total			3000	2980		ug/Kg		99	75 - 120	1	30
Methyl tertiary butyl ether			1000	1030		ug/Kg		103	72 - 120	1	30
Benzene			1000	1040		ug/Kg		104	80 - 120	2	30
Naphthalene			1000	928		ug/Kg		93	48 - 130	0	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-161724/6
Matrix: Solid
Analysis Batch: 161724

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			1000	864		ug/Kg		86	73 - 120	0	30
Isopropylbenzene			1000	993		ug/Kg		99	77 - 120	1	30
1,2-Dibromoethane			1000	993		ug/Kg		99	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*93*		*52 - 141*

Lab Sample ID: MB 410-161737/8
Matrix: Solid
Analysis Batch: 161737

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/18/21 12:22	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/18/21 12:22	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/18/21 12:22	1
Toluene	ND		5.0	0.60	ug/Kg			08/18/21 12:22	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/18/21 12:22	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/18/21 12:22	1
Benzene	ND		5.0	0.50	ug/Kg			08/18/21 12:22	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/18/21 12:22	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/18/21 12:22	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/18/21 12:22	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/18/21 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*08/18/21 12:22*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*		*08/18/21 12:22*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 141*		*08/18/21 12:22*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*		*08/18/21 12:22*	*1*

Lab Sample ID: LCS 410-161737/5
Matrix: Solid
Analysis Batch: 161737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	17.5		ug/Kg		88	78 - 120		
1,2-Dichloroethane			20.0	18.4		ug/Kg		92	71 - 128		
1,3,5-Trimethylbenzene			20.0	17.1		ug/Kg		85	73 - 120		
Toluene			20.0	17.5		ug/Kg		87	80 - 120		
Xylenes, Total			60.0	52.9		ug/Kg		88	75 - 120		
Methyl tertiary butyl ether			20.0	18.1		ug/Kg		91	72 - 120		
Benzene			20.0	18.5		ug/Kg		92	80 - 120		
Naphthalene			20.0	17.0		ug/Kg		85	48 - 130		
1,2,4-Trimethylbenzene			20.0	17.4		ug/Kg		87	73 - 120		
Isopropylbenzene			20.0	16.9		ug/Kg		85	77 - 120		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-161737/5
Matrix: Solid
Analysis Batch: 161737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	18.8		ug/Kg		94	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*102*		*52 - 141*

Lab Sample ID: LCSD 410-161737/6
Matrix: Solid
Analysis Batch: 161737

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	17.4		ug/Kg		87	78 - 120	1	30
1,2-Dichloroethane			20.0	18.1		ug/Kg		90	71 - 128	2	30
1,3,5-Trimethylbenzene			20.0	16.9		ug/Kg		85	73 - 120	1	30
Toluene			20.0	17.6		ug/Kg		88	80 - 120	1	30
Xylenes, Total			60.0	52.3		ug/Kg		87	75 - 120	1	30
Methyl tertiary butyl ether			20.0	17.6		ug/Kg		88	72 - 120	3	30
Benzene			20.0	18.1		ug/Kg		91	80 - 120	2	30
Naphthalene			20.0	16.5		ug/Kg		82	48 - 130	3	30
1,2,4-Trimethylbenzene			20.0	17.3		ug/Kg		86	73 - 120	0	30
Isopropylbenzene			20.0	16.8		ug/Kg		84	77 - 120	1	30
1,2-Dibromoethane			20.0	18.3		ug/Kg		92	76 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*102*		*52 - 141*

Lab Sample ID: MB 410-162254/10
Matrix: Solid
Analysis Batch: 162254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/19/21 14:05	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/19/21 14:05	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/19/21 14:05	1
Toluene	ND		5.0	0.60	ug/Kg			08/19/21 14:05	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/19/21 14:05	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/19/21 14:05	1
Benzene	ND		5.0	0.50	ug/Kg			08/19/21 14:05	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/19/21 14:05	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/19/21 14:05	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/19/21 14:05	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/19/21 14:05	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-162254/10
Matrix: Solid
Analysis Batch: 162254

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		54 - 135		08/19/21 14:05	1
4-Bromofluorobenzene (Surr)	93		50 - 131		08/19/21 14:05	1
Dibromofluoromethane (Surr)	101		50 - 141		08/19/21 14:05	1
Toluene-d8 (Surr)	98		52 - 141		08/19/21 14:05	1

Lab Sample ID: LCS 410-162254/5
Matrix: Solid
Analysis Batch: 162254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	18.8		ug/Kg		94	78 - 120		
1,2-Dichloroethane			20.0	19.2		ug/Kg		96	71 - 128		
1,3,5-Trimethylbenzene			20.0	18.6		ug/Kg		93	73 - 120		
Toluene			20.0	18.5		ug/Kg		92	80 - 120		
Xylenes, Total			60.0	56.2		ug/Kg		94	75 - 120		
Methyl tertiary butyl ether			20.0	18.7		ug/Kg		94	72 - 120		
Benzene			20.0	19.7		ug/Kg		98	80 - 120		
Naphthalene			20.0	17.9		ug/Kg		89	48 - 130		
1,2,4-Trimethylbenzene			20.0	18.6		ug/Kg		93	73 - 120		
Isopropylbenzene			20.0	18.5		ug/Kg		92	77 - 120		
1,2-Dibromoethane			20.0	19.3		ug/Kg		97	76 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		54 - 135
4-Bromofluorobenzene (Surr)	96		50 - 131
Dibromofluoromethane (Surr)	99		50 - 141
Toluene-d8 (Surr)	101		52 - 141

Lab Sample ID: LCSD 410-162254/6
Matrix: Solid
Analysis Batch: 162254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	19.0		ug/Kg		95	78 - 120	1	30
1,2-Dichloroethane			20.0	19.5		ug/Kg		98	71 - 128	2	30
1,3,5-Trimethylbenzene			20.0	18.8		ug/Kg		94	73 - 120	1	30
Toluene			20.0	18.7		ug/Kg		94	80 - 120	1	30
Xylenes, Total			60.0	56.8		ug/Kg		95	75 - 120	1	30
Methyl tertiary butyl ether			20.0	18.9		ug/Kg		95	72 - 120	1	30
Benzene			20.0	19.7		ug/Kg		98	80 - 120	0	30
Naphthalene			20.0	17.6		ug/Kg		88	48 - 130	2	30
1,2,4-Trimethylbenzene			20.0	18.7		ug/Kg		93	73 - 120	0	30
Isopropylbenzene			20.0	18.7		ug/Kg		93	77 - 120	1	30
1,2-Dibromoethane			20.0	19.6		ug/Kg		98	76 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		54 - 135
4-Bromofluorobenzene (Surr)	98		50 - 131

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-162254/6
Matrix: Solid
Analysis Batch: 162254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*102*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-160096/6
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/13/21 10:12	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/13/21 10:12	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:12	1
Toluene	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/13/21 10:12	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/13/21 10:12	1
Benzene	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Naphthalene	ND		5.0	1.0	ug/L			08/13/21 10:12	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/13/21 10:12	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/13/21 10:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/13/21 10:12*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/13/21 10:12*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/13/21 10:12*	*1*

Lab Sample ID: LCS 410-160096/4
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	20.0	16.2		ug/L		81	77 - 120
Ethylbenzene	20.0	16.8		ug/L		84	80 - 120
1,2-Dichloroethane	20.0	17.6		ug/L		88	73 - 124
1,3,5-Trimethylbenzene	20.0	15.8		ug/L		79	75 - 120
Toluene	20.0	16.4		ug/L		82	80 - 120
Xylenes, Total	60.0	49.9		ug/L		83	80 - 120
Methyl tertiary butyl ether	20.0	18.1		ug/L		90	69 - 122
Benzene	20.0	18.2		ug/L		91	80 - 120
Naphthalene	20.0	16.2		ug/L		81	53 - 124
1,2,4-Trimethylbenzene	20.0	15.6		ug/L		78	75 - 120
Isopropylbenzene	20.0	16.3		ug/L		81	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-160096/4
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: LCSD 410-160096/5
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	18.4		ug/L		92	77 - 120	13	30
Ethylbenzene			20.0	18.9		ug/L		94	80 - 120	11	30
1,2-Dichloroethane			20.0	19.9		ug/L		99	73 - 124	12	30
1,3,5-Trimethylbenzene			20.0	17.6		ug/L		88	75 - 120	11	30
Toluene			20.0	18.5		ug/L		93	80 - 120	12	30
Xylenes, Total			60.0	55.7		ug/L		93	80 - 120	11	30
Methyl tertiary butyl ether			20.0	20.4		ug/L		102	69 - 122	12	30
Benzene			20.0	20.4		ug/L		102	80 - 120	11	30
Naphthalene			20.0	17.9		ug/L		89	53 - 124	10	30
1,2,4-Trimethylbenzene			20.0	17.7		ug/L		88	75 - 120	13	30
Isopropylbenzene			20.0	18.2		ug/L		91	80 - 120	11	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-160489/1-A
Matrix: Solid
Analysis Batch: 160678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Chrysene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Fluorene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Phenanthrene	ND		17	4.0	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Pyrene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*08/14/21 08:45*	*08/16/21 10:11*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/14/21 08:45*	*08/16/21 10:11*	*1*
p-Terphenyl-d14 (Surr)	*91*		*45 - 108*	*08/14/21 08:45*	*08/16/21 10:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-160489/2-A
Matrix: Solid
Analysis Batch: 160678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160489

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Anthracene			1670	1380		ug/Kg		83	75 - 120		
Benzo[a]anthracene			1670	1330		ug/Kg		80	73 - 120		
Benzo[a]pyrene			1670	1410		ug/Kg		84	80 - 123		
Benzo[b]fluoranthene			1670	1310		ug/Kg		79	63 - 120		
Benzo[g,h,i]perylene			1670	1370		ug/Kg		82	77 - 120		
Chrysene			1670	1310		ug/Kg		79	66 - 120		
Fluorene			1670	1360		ug/Kg		82	68 - 120		
Phenanthrene			1670	1350		ug/Kg		81	74 - 120		
Pyrene			1670	1320		ug/Kg		79	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*

Lab Sample ID: 410-51060-12 MS
Matrix: Solid
Analysis Batch: 161049

Client Sample ID: Pipe 64 (2)
Prep Type: Total/NA
Prep Batch: 160489

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Anthracene	ND		2410	1820		ug/Kg	☼	76	75 - 120		
Benzo[a]anthracene	15	J	2410	1820		ug/Kg	☼	75	73 - 120		
Benzo[a]pyrene	15	J	2410	1770	FL	ug/Kg	☼	73	80 - 123		
Benzo[b]fluoranthene	20	J	2410	1530		ug/Kg	☼	63	63 - 120		
Benzo[g,h,i]perylene	11	J	2410	1740	FL	ug/Kg	☼	72	77 - 120		
Chrysene	15	J	2410	1730		ug/Kg	☼	71	66 - 120		
Fluorene	ND		2410	1880		ug/Kg	☼	78	68 - 120		
Phenanthrene	16	J	2410	1830		ug/Kg	☼	75	74 - 120		
Pyrene	23	J	2410	1800		ug/Kg	☼	74	70 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*

Lab Sample ID: 410-51060-12 MSD
Matrix: Solid
Analysis Batch: 161049

Client Sample ID: Pipe 64 (2)
Prep Type: Total/NA
Prep Batch: 160489

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	ND		2410	1810		ug/Kg	☼	75	75 - 120	1	30
Benzo[a]anthracene	15	J	2410	1780		ug/Kg	☼	73	73 - 120	2	30
Benzo[a]pyrene	15	J	2410	1710	FL	ug/Kg	☼	71	80 - 123	3	30
Benzo[b]fluoranthene	20	J	2410	1510	FL	ug/Kg	☼	62	63 - 120	1	30
Benzo[g,h,i]perylene	11	J	2410	1690	FL	ug/Kg	☼	70	77 - 120	3	30
Chrysene	15	J	2410	1690		ug/Kg	☼	70	66 - 120	3	30
Fluorene	ND		2410	1830		ug/Kg	☼	76	68 - 120	3	30
Phenanthrene	16	J	2410	1790		ug/Kg	☼	74	74 - 120	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-51060-12 MSD
Matrix: Solid
Analysis Batch: 161049

Client Sample ID: Pipe 64 (2)
Prep Type: Total/NA
Prep Batch: 160489

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyrene	23	J	2410	1740		ug/Kg	☼	71	70 - 120	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*
p-Terphenyl-d14 (Surr)	*74*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-160260/1-A
Matrix: Solid
Analysis Batch: 161428

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/13/21 12:16	08/17/21 12:51	1

Lab Sample ID: LCS 410-160260/2-A
Matrix: Solid
Analysis Batch: 161428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.51		mg/Kg		110	80 - 120

Lab Sample ID: 410-51060-3 MS
Matrix: Solid
Analysis Batch: 161428

Client Sample ID: DUP-7
Prep Type: Total/NA
Prep Batch: 160260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	24	FL	6.86	28.7	FL	mg/Kg	☼	67	75 - 125

Lab Sample ID: 410-51060-3 MSD
Matrix: Solid
Analysis Batch: 161428

Client Sample ID: DUP-7
Prep Type: Total/NA
Prep Batch: 160260

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	24	FL	6.25	29.4		mg/Kg	☼	85	75 - 125	3	20

Lab Sample ID: 410-51060-3 DU
Matrix: Solid
Analysis Batch: 161428

Client Sample ID: DUP-7
Prep Type: Total/NA
Prep Batch: 160260

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	24	FL	20.3		mg/Kg	☼	17	20

GC/MS VOA

Analysis Batch: 160096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-15	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-160096/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-160096/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-160096/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Prep Batch: 160178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	5035	
410-51060-2	Pipe 29 (2)	Total/NA	Solid	5035	
410-51060-3 - DL	DUP-7	Total/NA	Solid	5035	
410-51060-3	DUP-7	Total/NA	Solid	5035	
410-51060-4	Pipe 30 (2)	Total/NA	Solid	5035	
410-51060-6	Pipe 44 (2)	Total/NA	Solid	5035	

Prep Batch: 160181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-5	Pipe 4 (2)	Total/NA	Solid	5035	
410-51060-7	1044-P5 (3)	Total/NA	Solid	5035	
410-51060-8	649-P3 (3)	Total/NA	Solid	5035	
410-51060-9	649-P1 (3)	Total/NA	Solid	5035	
410-51060-10	649-P2 (3)	Total/NA	Solid	5035	
410-51060-11	649-P4 (3)	Total/NA	Solid	5035	
410-51060-12	Pipe 64 (2)	Total/NA	Solid	5035	
410-51060-13	Pipe 66 (2)	Total/NA	Solid	5035	
410-51060-14	Pipe 65 (2)	Total/NA	Solid	5035	

Analysis Batch: 160723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-5	Pipe 4 (2)	Total/NA	Solid	8260C	160181
410-51060-8	649-P3 (3)	Total/NA	Solid	8260C	160181
410-51060-9	649-P1 (3)	Total/NA	Solid	8260C	160181
410-51060-10	649-P2 (3)	Total/NA	Solid	8260C	160181
410-51060-11	649-P4 (3)	Total/NA	Solid	8260C	160181
410-51060-12	Pipe 64 (2)	Total/NA	Solid	8260C	160181
410-51060-13	Pipe 66 (2)	Total/NA	Solid	8260C	160181
MB 410-160723/8	Method Blank	Total/NA	Solid	8260C	
LCS 410-160723/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160723/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 161178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	8260C	160178
410-51060-2	Pipe 29 (2)	Total/NA	Solid	8260C	160178
410-51060-4	Pipe 30 (2)	Total/NA	Solid	8260C	160178
MB 410-161178/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-161178/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-161178/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 161724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-3	DUP-7	Total/NA	Solid	8260C	160178

GC/MS VOA (Continued)

Analysis Batch: 161724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-3 - DL	DUP-7	Total/NA	Solid	8260C	160178
410-51060-6	Pipe 44 (2)	Total/NA	Solid	8260C	160178
MB 410-161724/8	Method Blank	Total/NA	Solid	8260C	
LCS 410-161724/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-161724/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 161737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-14	Pipe 65 (2)	Total/NA	Solid	8260C	160181
MB 410-161737/8	Method Blank	Total/NA	Solid	8260C	
LCS 410-161737/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-161737/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 162254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-7	1044-P5 (3)	Total/NA	Solid	8260C	160181
MB 410-162254/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-162254/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-162254/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 160489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	3546	
410-51060-2	Pipe 29 (2)	Total/NA	Solid	3546	
410-51060-3	DUP-7	Total/NA	Solid	3546	
410-51060-4	Pipe 30 (2)	Total/NA	Solid	3546	
410-51060-5	Pipe 4 (2)	Total/NA	Solid	3546	
410-51060-6	Pipe 44 (2)	Total/NA	Solid	3546	
410-51060-7	1044-P5 (3)	Total/NA	Solid	3546	
410-51060-8	649-P3 (3)	Total/NA	Solid	3546	
410-51060-9	649-P1 (3)	Total/NA	Solid	3546	
410-51060-10	649-P2 (3)	Total/NA	Solid	3546	
410-51060-11	649-P4 (3)	Total/NA	Solid	3546	
410-51060-12	Pipe 64 (2)	Total/NA	Solid	3546	
410-51060-13	Pipe 66 (2)	Total/NA	Solid	3546	
410-51060-14	Pipe 65 (2)	Total/NA	Solid	3546	
MB 410-160489/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-160489/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-51060-12 MS	Pipe 64 (2)	Total/NA	Solid	3546	
410-51060-12 MSD	Pipe 64 (2)	Total/NA	Solid	3546	

Analysis Batch: 160678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	8270D	160489
410-51060-2	Pipe 29 (2)	Total/NA	Solid	8270D	160489
410-51060-3	DUP-7	Total/NA	Solid	8270D	160489
410-51060-4	Pipe 30 (2)	Total/NA	Solid	8270D	160489
410-51060-5	Pipe 4 (2)	Total/NA	Solid	8270D	160489
410-51060-6	Pipe 44 (2)	Total/NA	Solid	8270D	160489

GC/MS Semi VOA (Continued)

Analysis Batch: 160678 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-7	1044-P5 (3)	Total/NA	Solid	8270D	160489
410-51060-8	649-P3 (3)	Total/NA	Solid	8270D	160489
410-51060-9	649-P1 (3)	Total/NA	Solid	8270D	160489
410-51060-10	649-P2 (3)	Total/NA	Solid	8270D	160489
410-51060-11	649-P4 (3)	Total/NA	Solid	8270D	160489
410-51060-12	Pipe 64 (2)	Total/NA	Solid	8270D	160489
MB 410-160489/1-A	Method Blank	Total/NA	Solid	8270D	160489
LCS 410-160489/2-A	Lab Control Sample	Total/NA	Solid	8270D	160489

Analysis Batch: 161049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-13	Pipe 66 (2)	Total/NA	Solid	8270D	160489
410-51060-14	Pipe 65 (2)	Total/NA	Solid	8270D	160489
410-51060-12 MS	Pipe 64 (2)	Total/NA	Solid	8270D	160489
410-51060-12 MSD	Pipe 64 (2)	Total/NA	Solid	8270D	160489

Metals

Prep Batch: 160260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	3050B	
410-51060-2	Pipe 29 (2)	Total/NA	Solid	3050B	
410-51060-3	DUP-7	Total/NA	Solid	3050B	
410-51060-4	Pipe 30 (2)	Total/NA	Solid	3050B	
410-51060-5	Pipe 4 (2)	Total/NA	Solid	3050B	
410-51060-6	Pipe 44 (2)	Total/NA	Solid	3050B	
410-51060-7	1044-P5 (3)	Total/NA	Solid	3050B	
410-51060-8	649-P3 (3)	Total/NA	Solid	3050B	
410-51060-9	649-P1 (3)	Total/NA	Solid	3050B	
410-51060-10	649-P2 (3)	Total/NA	Solid	3050B	
410-51060-11	649-P4 (3)	Total/NA	Solid	3050B	
410-51060-12	Pipe 64 (2)	Total/NA	Solid	3050B	
410-51060-13	Pipe 66 (2)	Total/NA	Solid	3050B	
410-51060-14	Pipe 65 (2)	Total/NA	Solid	3050B	
MB 410-160260/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-160260/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-51060-3 MS	DUP-7	Total/NA	Solid	3050B	
410-51060-3 MSD	DUP-7	Total/NA	Solid	3050B	
410-51060-3 DU	DUP-7	Total/NA	Solid	3050B	

Analysis Batch: 161428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	6010C	160260
410-51060-2	Pipe 29 (2)	Total/NA	Solid	6010C	160260
410-51060-3	DUP-7	Total/NA	Solid	6010C	160260
410-51060-4	Pipe 30 (2)	Total/NA	Solid	6010C	160260
410-51060-5	Pipe 4 (2)	Total/NA	Solid	6010C	160260
410-51060-6	Pipe 44 (2)	Total/NA	Solid	6010C	160260
410-51060-7	1044-P5 (3)	Total/NA	Solid	6010C	160260
410-51060-8	649-P3 (3)	Total/NA	Solid	6010C	160260
410-51060-9	649-P1 (3)	Total/NA	Solid	6010C	160260

Metals (Continued)

Analysis Batch: 161428 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-10	649-P2 (3)	Total/NA	Solid	6010C	160260
410-51060-11	649-P4 (3)	Total/NA	Solid	6010C	160260
410-51060-12	Pipe 64 (2)	Total/NA	Solid	6010C	160260
410-51060-13	Pipe 66 (2)	Total/NA	Solid	6010C	160260
410-51060-14	Pipe 65 (2)	Total/NA	Solid	6010C	160260
MB 410-160260/1-A	Method Blank	Total/NA	Solid	6010C	160260
LCS 410-160260/2-A	Lab Control Sample	Total/NA	Solid	6010C	160260
410-51060-3 MS	DUP-7	Total/NA	Solid	6010C	160260
410-51060-3 MSD	DUP-7	Total/NA	Solid	6010C	160260
410-51060-3 DU	DUP-7	Total/NA	Solid	6010C	160260

General Chemistry

Analysis Batch: 160139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	Moisture	
410-51060-2	Pipe 29 (2)	Total/NA	Solid	Moisture	
410-51060-3	DUP-7	Total/NA	Solid	Moisture	
410-51060-4	Pipe 30 (2)	Total/NA	Solid	Moisture	
410-51060-5	Pipe 4 (2)	Total/NA	Solid	Moisture	
410-51060-6	Pipe 44 (2)	Total/NA	Solid	Moisture	
410-51060-7	1044-P5 (3)	Total/NA	Solid	Moisture	
410-51060-8	649-P3 (3)	Total/NA	Solid	Moisture	
410-51060-9	649-P1 (3)	Total/NA	Solid	Moisture	
410-51060-10	649-P2 (3)	Total/NA	Solid	Moisture	
410-51060-11	649-P4 (3)	Total/NA	Solid	Moisture	
410-51060-12	Pipe 64 (2)	Total/NA	Solid	Moisture	
410-51060-13	Pipe 66 (2)	Total/NA	Solid	Moisture	
410-51060-14	Pipe 65 (2)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Client Sample ID: Pipe 27 (2)

Lab Sample ID: 410-51060-1

Date Collected: 08/11/21 13:00

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 27 (2)

Lab Sample ID: 410-51060-1

Date Collected: 08/11/21 13:00

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 72.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160178	08/13/21 10:25	JJT8	ELLE
Total/NA	Analysis	8260C		50	161178	08/17/21 18:15	SWV2	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 15:48	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:17	WJM9	ELLE

Client Sample ID: Pipe 29 (2)

Lab Sample ID: 410-51060-2

Date Collected: 08/11/21 13:15

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 29 (2)

Lab Sample ID: 410-51060-2

Date Collected: 08/11/21 13:15

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 59.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160178	08/13/21 10:25	JJT8	ELLE
Total/NA	Analysis	8260C		50	161178	08/17/21 18:36	SWV2	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 16:11	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:20	WJM9	ELLE

Client Sample ID: DUP-7

Lab Sample ID: 410-51060-3

Date Collected: 08/11/21 00:00

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: DUP-7

Lab Sample ID: 410-51060-3

Date Collected: 08/11/21 00:00

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 59.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160178	08/13/21 10:25	JJT8	ELLE
Total/NA	Analysis	8260C		50	161724	08/18/21 18:45	USEJ	ELLE
Total/NA	Prep	5035	DL		160178	08/13/21 10:25	JJT8	ELLE
Total/NA	Analysis	8260C	DL	500	161724	08/18/21 19:06	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 16:33	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 12:57	WJM9	ELLE

Client Sample ID: Pipe 30 (2)

Lab Sample ID: 410-51060-4

Date Collected: 08/11/21 13:40

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 30 (2)

Lab Sample ID: 410-51060-4

Date Collected: 08/11/21 13:40

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 54.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160178	08/13/21 10:25	JJT8	ELLE
Total/NA	Analysis	8260C		50	161178	08/17/21 19:18	SWV2	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 16:56	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:29	WJM9	ELLE

Client Sample ID: Pipe 4 (2)

Lab Sample ID: 410-51060-5

Date Collected: 08/11/21 13:55

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 4 (2)

Lab Sample ID: 410-51060-5

Date Collected: 08/11/21 13:55

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 19:53	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 17:18	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:32	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Client Sample ID: Pipe 44 (2)

Lab Sample ID: 410-51060-6

Date Collected: 08/11/21 14:40

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 44 (2)

Lab Sample ID: 410-51060-6

Date Collected: 08/11/21 14:40

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 53.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160178	08/13/21 10:25	JJT8	ELLE
Total/NA	Analysis	8260C		50	161724	08/18/21 19:26	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 17:40	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 14:07	WJM9	ELLE

Client Sample ID: 1044-P5 (3)

Lab Sample ID: 410-51060-7

Date Collected: 08/12/21 09:00

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: 1044-P5 (3)

Lab Sample ID: 410-51060-7

Date Collected: 08/12/21 09:00

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 69.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	162254	08/19/21 14:46	UCB5	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 18:03	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:45	WJM9	ELLE

Client Sample ID: 649-P3 (3)

Lab Sample ID: 410-51060-8

Date Collected: 08/12/21 09:30

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: 649-P3 (3)

Lab Sample ID: 410-51060-8

Date Collected: 08/12/21 09:30

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 16:48	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 18:25	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:42	WJM9	ELLE

Client Sample ID: 649-P1 (3)

Lab Sample ID: 410-51060-9

Date Collected: 08/12/21 09:50

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: 649-P1 (3)

Lab Sample ID: 410-51060-9

Date Collected: 08/12/21 09:50

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 63.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 20:16	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 18:48	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:39	WJM9	ELLE

Client Sample ID: 649-P2 (3)

Lab Sample ID: 410-51060-10

Date Collected: 08/12/21 10:05

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: 649-P2 (3)

Lab Sample ID: 410-51060-10

Date Collected: 08/12/21 10:05

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 20:39	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 19:10	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:36	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Client Sample ID: 649-P4 (3)

Lab Sample ID: 410-51060-11

Date Collected: 08/12/21 10:30

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: 649-P4 (3)

Lab Sample ID: 410-51060-11

Date Collected: 08/12/21 10:30

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 17:57	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 19:33	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:58	WJM9	ELLE

Client Sample ID: Pipe 64 (2)

Lab Sample ID: 410-51060-12

Date Collected: 08/12/21 10:45

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 64 (2)

Lab Sample ID: 410-51060-12

Date Collected: 08/12/21 10:45

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 68.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 21:02	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 19:55	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:55	WJM9	ELLE

Client Sample ID: Pipe 66 (2)

Lab Sample ID: 410-51060-13

Date Collected: 08/12/21 11:10

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 66 (2)

Lab Sample ID: 410-51060-13

Date Collected: 08/12/21 11:10

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 21:25	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	161049	08/17/21 00:40	ULM3	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:52	WJM9	ELLE

Client Sample ID: Pipe 65 (2)

Lab Sample ID: 410-51060-14

Date Collected: 08/12/21 11:20

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 65 (2)

Lab Sample ID: 410-51060-14

Date Collected: 08/12/21 11:20

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	161737	08/18/21 18:37	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	161049	08/17/21 01:02	ULM3	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:49	WJM9	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-51060-15

Date Collected: 08/12/21 00:00

Matrix: Water

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	160096	08/13/21 11:24	UKAD	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-51060-1	Pipe 27 (2)	Solid	08/11/21 13:00	08/12/21 17:42
410-51060-2	Pipe 29 (2)	Solid	08/11/21 13:15	08/12/21 17:42
410-51060-3	DUP-7	Solid	08/11/21 00:00	08/12/21 17:42
410-51060-4	Pipe 30 (2)	Solid	08/11/21 13:40	08/12/21 17:42
410-51060-5	Pipe 4 (2)	Solid	08/11/21 13:55	08/12/21 17:42
410-51060-6	Pipe 44 (2)	Solid	08/11/21 14:40	08/12/21 17:42
410-51060-7	1044-P5 (3)	Solid	08/12/21 09:00	08/12/21 17:42
410-51060-8	649-P3 (3)	Solid	08/12/21 09:30	08/12/21 17:42
410-51060-9	649-P1 (3)	Solid	08/12/21 09:50	08/12/21 17:42
410-51060-10	649-P2 (3)	Solid	08/12/21 10:05	08/12/21 17:42
410-51060-11	649-P4 (3)	Solid	08/12/21 10:30	08/12/21 17:42
410-51060-12	Pipe 64 (2)	Solid	08/12/21 10:45	08/12/21 17:42
410-51060-13	Pipe 66 (2)	Solid	08/12/21 11:10	08/12/21 17:42
410-51060-14	Pipe 65 (2)	Solid	08/12/21 11:20	08/12/21 17:42
410-51060-15	Trip Blank	Water	08/12/21 00:00	08/12/21 17:42

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-51060 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: IA/DH/TM	Lab PM: Carter, Amek A	COC No: 410-31049-9562 5
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 5 of 8
Company: Stantec Consulting Corp	PWSID:		Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:	Analysis Requested	
City: West Chester	TAT Requested (days): 5 day		
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No		
Phone:	PO #: Purchase Order Requested		
Email: mark.schaeffer@stantec.com	WO #:		
Project Name: PBF Logistics	Project #: 41007459		
Site: 51st Street Terminal	SSOW#:		

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A		
Pipe 27 (2)	8/11/21	1300	G	Solid			X	X			
Pipe 29 (2)	8/11/21	1315	G	Solid			X	X			
DUP-7	8/11/21	—	G	Solid			X	X			
Pipe 30 (2)	8/11/21	1340	G	Solid			X	X			
Pipe 4 (2)	8/11/21	1355	G	Solid			X	X			
Pipe 44 (2)	8/11/21	1440	G	Solid			X	X			
1044-P5 (3)	8/12/21	0900	G	Solid			X	X			
649-P3 (3)	8/12/21	0930	G	Solid			X	X			
649-P1 (3)	8/12/21	0950	G	Solid			X	X			
649-P2 (3)	8/12/21	1005	G	Solid			X	X			
649-P4 (3)	8/12/21	1030	G	Solid			X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/12/21 1135		Pierre	8/12/21 11:35	
2	Pierre	8/12/21 17				
3				[signature]	8-12-21 1742	ECG

Custody Seals Intact: Δ Yes Δ No
Custody Seal No:
Cooler Temperature(s) °C and Other Remarks: 3.1°C

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: DH / TM	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-30583-9562 5
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran Carter@eurofinset.com	State of Origin: PA	Page: Page 5 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	B	A		
Pipe 04 (2)	8/12/21	1045	G	S			X	X			
Pipe 06 (2)	8/12/21	1110	G	S			X	X			
Pipe 05 (2)	8/12/21	1120	G	S			X	X			
Trip Blank	8/12/21	—	G	W			~~X~~ (DH)		X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/12/21 1135	Stantec	Pierre	8/12/21 11:35	
2	Pierre	8/12/21 1730				
3				[signature]	8-12-21 1742	ECLC

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.1°C

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-51060-1

Login Number: 51060

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Knoedler, Christine M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-51318-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/27/2021 10:18:12 AM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Amek Carter
Project Manager
8/27/2021 10:18:12 AM

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Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
^c	CCV Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-51318-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-51318-1

Receipt
The samples were received on 8/13/2021 6:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: Pipe 62 (2) (410-51318-2), 1044-P1 (3) (410-51318-3) and 649-P5 (3) (410-51318-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: 2045-P4 (3) (410-51318-8). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) analyzed on 410-162756 is compliant under 8260C/D method criteria for Isopropylbenzene. The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

Method 8260C: The continuing calibration verification (CCV) associated with batch 410-162756 recovered outside acceptance criteria, low biased, for 1,3,5-Trimethylbenzene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: 1044-P3 (3) (410-51318-4). The sample(s) was re-analyzed and ISTD response was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Client Sample ID: Pipe 63 (2) — Lab Sample ID: 410-51318-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	5.8	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	8.4	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	8.2	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	19	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	23		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	19	J	23	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	13	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	70		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 62 (2) — Lab Sample ID: 410-51318-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	39		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	29		1.8	0.72	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1044-P1 (3) — Lab Sample ID: 410-51318-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	9.5	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	18	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	18	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	25		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	17	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	20	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	28		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	25		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	90		1.7	0.68	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1044-P3 (3) — Lab Sample ID: 410-51318-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	50		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	180		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	330		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	220		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	250		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	160		25	6.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	320		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Lead	810		1.9	0.76	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 649-P5 (3) — Lab Sample ID: 410-51318-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	10	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	11	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	20	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	15	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	15	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	17	J	21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	16	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	270		1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Client Sample ID: 1044-P2 (3) — Lab Sample ID: 410-51318-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.5	J	7.1	0.85	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.6	J	7.1	0.71	ug/Kg	1	☼	8260C	Total/NA
Anthracene	28		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	180		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	230		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	160		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	180		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	8.5	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	110		23	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	200		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	380		2.0	0.81	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2045-P2 (3) — Lab Sample ID: 410-51318-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	3.3	J	7.0	0.84	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.4	J	7.0	0.70	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.2	J	7.0	0.70	ug/Kg	1	☼	8260C	Total/NA
Anthracene	8.7	J	24	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	8.5	J	24	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	13	J	24	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	21	J	24	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	13	J	24	4.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	19	J	24	4.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	30		24	4.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	64		24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	30		24	4.9	ug/Kg	1	☼	8270D	Total/NA
Lead	29		2.2	0.87	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2045-P4 (3) — Lab Sample ID: 410-51318-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	66	J	690	55	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	230	J	690	69	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	370	J	1400	190	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	520	J	690	69	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	9.9	J	30	6.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	9.6	J	30	6.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.3	J	30	6.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	33		30	6.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	410		30	6.1	ug/Kg	1	☼	8270D	Total/NA
Lead	75		2.2	0.88	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2045-P5 (3) — Lab Sample ID: 410-51318-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	670		590	47	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	15000		590	59	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	6800		1200	170	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	13000		590	240	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	1500		590	47	ug/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2045-P5 (3) (Continued) — Lab Sample ID: 410-51318-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene - DL	33000		5900	590	ug/Kg	500	☼	8260C	Total/NA
Benzo[a]anthracene	11	J	28	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	8.0	J	28	5.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	37		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	520		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	5000		28	6.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	470		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Lead	210		1.9	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 43 (2) — Lab Sample ID: 410-51318-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	7.6	J	8.9	0.89	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	15		8.9	0.89	ug/Kg	1	☼	8260C	Total/NA
Anthracene	17	J	49	9.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	40	J	49	9.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	37	J	49	9.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	57		49	9.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	39	J	49	9.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	51		49	9.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	87		49	12	ug/Kg	1	☼	8270D	Total/NA
Pyrene	72		49	9.7	ug/Kg	1	☼	8270D	Total/NA
Lead	60		1.8	0.71	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 42 (2) — Lab Sample ID: 410-51318-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	41		9.1	0.73	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.96	J	9.1	0.91	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.2	J	9.1	1.1	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	330		18	2.5	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.4	J	9.1	0.91	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	1.4	J	9.1	0.73	ug/Kg	1	☼	8260C	Total/NA
Anthracene	31		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	45		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	41		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	66		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	41		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	80		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	120		26	6.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	72		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Lead	110		2.1	0.82	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 41 (2) — Lab Sample ID: 410-51318-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	22	J	29	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	22	J	29	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	25	J	29	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	46		29	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	25	J	29	5.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	46		29	5.7	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 41 (2) (Continued)

Lab Sample ID: 410-51318-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	8.6	J	29	5.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	67		29	6.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	63		29	5.7	ug/Kg	1	☼	8270D	Total/NA
Lead	120		1.9	0.77	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-51318-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 63 (2)

Lab Sample ID: 410-51318-1

Date Collected: 08/12/21 11:40

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 72.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.80	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
1,2-Dichloroethane	ND		10	1.2	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
Toluene	ND		10	1.2	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
Xylenes, Total	ND		20	2.8	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
Methyl tertiary butyl ether	ND		10	1.0	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
Benzene	ND		10	1.0	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
Naphthalene	ND		10	4.0	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
1,2,4-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
Isopropylbenzene	ND		10	0.80	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
1,2-Dibromoethane	ND		10	0.80	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/16/21 09:56*	*08/22/21 20:32*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/16/21 09:56*	*08/22/21 20:32*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/16/21 09:56*	*08/22/21 20:32*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/16/21 09:56*	*08/22/21 20:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**5.8**	**J**	23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Benzo[a]anthracene	**8.4**	**J**	23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Benzo[a]pyrene	**8.2**	**J**	23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Benzo[b]fluoranthene	**19**	**J**	23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Benzo[g,h,i]perylene	**23**		23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Chrysene	**13**	**J**	23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Fluorene	ND		23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Phenanthrene	**19**	**J**	23	5.4	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Pyrene	**13**	**J**	23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/18/21 10:11*	*08/21/21 17:38*	*1*
Nitrobenzene-d5 (Surr)	*62*		*32 - 97*	*08/18/21 10:11*	*08/21/21 17:38*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/18/21 10:11*	*08/21/21 17:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**70**		1.6	0.64	mg/Kg	☼	08/16/21 03:44	08/16/21 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.1**		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: Pipe 62 (2)

Lab Sample ID: 410-51318-2

Date Collected: 08/12/21 11:50

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 73.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		580	46	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
1,2-Dichloroethane	ND		580	70	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50

Client Sample ID: Pipe 62 (2)

Lab Sample ID: 410-51318-2

Date Collected: 08/12/21 11:50
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 73.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		580	58	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
Toluene	ND		580	70	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
Xylenes, Total	ND		1200	160	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
Methyl tertiary butyl ether	ND		580	58	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
Benzene	ND		580	58	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
Naphthalene	ND		580	230	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
1,2,4-Trimethylbenzene	ND		580	58	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
Isopropylbenzene	ND		580	46	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
1,2-Dibromoethane	ND		580	46	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*54 - 135*	*08/16/21 10:50*	*08/23/21 16:47*	*50*
4-Bromofluorobenzene (Surr)	*71*		*50 - 131*	*08/16/21 10:50*	*08/23/21 16:47*	*50*
Dibromofluoromethane (Surr)	*73*		*50 - 141*	*08/16/21 10:50*	*08/23/21 16:47*	*50*
Toluene-d8 (Surr)	*70*		*52 - 141*	*08/16/21 10:50*	*08/23/21 16:47*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Benzo[a]anthracene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Benzo[a]pyrene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Benzo[b]fluoranthene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Benzo[g,h,i]perylene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Chrysene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Fluorene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Phenanthrene	ND		22	5.4	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Pyrene	**39**		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*39 - 100*	*08/18/21 10:11*	*08/21/21 18:02*	*1*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*	*08/18/21 10:11*	*08/21/21 18:02*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/18/21 10:11*	*08/21/21 18:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**29**		1.8	0.72	mg/Kg	☼	08/16/21 03:44	08/16/21 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26.5**		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: 1044-P1 (3)

Lab Sample ID: 410-51318-3

Date Collected: 08/12/21 12:00
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 78.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		450	36	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
1,2-Dichloroethane	ND		450	53	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
1,3,5-Trimethylbenzene	ND		450	45	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
Toluene	ND		450	53	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50

Client Sample ID: 1044-P1 (3)

Lab Sample ID: 410-51318-3

Date Collected: 08/12/21 12:00
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 78.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		890	120	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
Methyl tertiary butyl ether	ND		450	45	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
Benzene	ND		450	45	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
Naphthalene	ND		450	180	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
1,2,4-Trimethylbenzene	ND		450	45	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
Isopropylbenzene	ND		450	36	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
1,2-Dibromoethane	ND		450	36	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*71*		*54 - 135*	*08/16/21 10:50*	*08/23/21 17:09*	*50*
4-Bromofluorobenzene (Surr)	*60*		*50 - 131*	*08/16/21 10:50*	*08/23/21 17:09*	*50*
Dibromofluoromethane (Surr)	*69*		*50 - 141*	*08/16/21 10:50*	*08/23/21 17:09*	*50*
Toluene-d8 (Surr)	*65*		*52 - 141*	*08/16/21 10:50*	*08/23/21 17:09*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**9.5**	**J**	21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Benzo[a]anthracene	**18**	**J**	21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Benzo[a]pyrene	**18**	**J**	21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Benzo[b]fluoranthene	**25**		21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Benzo[g,h,i]perylene	**17**	**J**	21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Chrysene	**20**	**J**	21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Phenanthrene	**28**		21	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Pyrene	**25**		21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/18/21 10:11*	*08/21/21 18:25*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/18/21 10:11*	*08/21/21 18:25*	*1*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*	*08/18/21 10:11*	*08/21/21 18:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**90**		1.7	0.68	mg/Kg	☼	08/16/21 03:44	08/16/21 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.4**		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: 1044-P3 (3)

Lab Sample ID: 410-51318-4

Date Collected: 08/12/21 12:30
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 65.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.5	0.60	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
1,2-Dichloroethane	ND		7.5	0.90	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
1,3,5-Trimethylbenzene	ND	^c *3	7.5	0.75	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
Toluene	ND		7.5	0.90	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
Xylenes, Total	ND		15	2.1	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
Methyl tertiary butyl ether	ND		7.5	0.75	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1

Client Sample ID: 1044-P3 (3)

Lab Sample ID: 410-51318-4

Date Collected: 08/12/21 12:30
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 65.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		7.5	0.75	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
Naphthalene	ND	*3	7.5	3.0	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
1,2,4-Trimethylbenzene	ND	*3	7.5	0.75	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
Isopropylbenzene	ND	^c	7.5	0.60	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
1,2-Dibromoethane	ND		7.5	0.60	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*54 - 135*	*08/16/21 09:56*	*08/20/21 15:18*	*1*
4-Bromofluorobenzene (Surr)	*78*		*50 - 131*	*08/16/21 09:56*	*08/20/21 15:18*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/16/21 09:56*	*08/20/21 15:18*	*1*
Toluene-d8 (Surr)	*107*		*52 - 141*	*08/16/21 09:56*	*08/20/21 15:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**50**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Benzo[a]anthracene	**180**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Benzo[a]pyrene	**200**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Benzo[b]fluoranthene	**330**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Benzo[g,h,i]perylene	**220**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Chrysene	**250**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Fluorene	ND		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Phenanthrene	**160**		25	6.1	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Pyrene	**320**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*08/18/21 10:11*	*08/21/21 18:48*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/18/21 10:11*	*08/21/21 18:48*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/18/21 10:11*	*08/21/21 18:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**810**		1.9	0.76	mg/Kg	☼	08/16/21 03:44	08/16/21 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**34.8**		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: 649-P5 (3)

Lab Sample ID: 410-51318-5

Date Collected: 08/13/21 09:20
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		460	37	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
1,2-Dichloroethane	ND		460	55	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
1,3,5-Trimethylbenzene	ND		460	46	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
Toluene	ND		460	55	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
Xylenes, Total	ND		910	130	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
Methyl tertiary butyl ether	ND		460	46	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
Benzene	ND		460	46	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
Naphthalene	ND		460	180	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50

Client Sample ID: 649-P5 (3)

Date Collected: 08/13/21 09:20
Date Received: 08/13/21 18:00

Lab Sample ID: 410-51318-5

Matrix: Solid
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		460	46	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
Isopropylbenzene	ND		460	37	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
1,2-Dibromoethane	ND		460	37	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*66*		*54 - 135*	*08/16/21 10:50*	*08/23/21 17:32*	*50*
4-Bromofluorobenzene (Surr)	*55*		*50 - 131*	*08/16/21 10:50*	*08/23/21 17:32*	*50*
Dibromofluoromethane (Surr)	*63*		*50 - 141*	*08/16/21 10:50*	*08/23/21 17:32*	*50*
Toluene-d8 (Surr)	*59*		*52 - 141*	*08/16/21 10:50*	*08/23/21 17:32*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Benzo[a]anthracene	**10**	**J**	21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Benzo[a]pyrene	**11**	**J**	21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Benzo[b]fluoranthene	**20**	**J**	21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Benzo[g,h,i]perylene	**15**	**J**	21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Chrysene	**15**	**J**	21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Phenanthrene	**17**	**J**	21	5.0	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Pyrene	**16**	**J**	21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*39 - 100*	*08/20/21 17:42*	*08/23/21 15:40*	*1*
Nitrobenzene-d5 (Surr)	*56*		*32 - 97*	*08/20/21 17:42*	*08/23/21 15:40*	*1*
p-Terphenyl-d14 (Surr)	*68*		*45 - 108*	*08/20/21 17:42*	*08/23/21 15:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**270**		1.5	0.59	mg/Kg	☼	08/16/21 03:44	08/16/21 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.8**		1.0	1.0	%			08/16/21 09:32	1

Client Sample ID: 1044-P2 (3)

Date Collected: 08/13/21 09:00
Date Received: 08/13/21 18:00

Lab Sample ID: 410-51318-6

Matrix: Solid
Percent Solids: 72.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.1	0.57	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
1,2-Dichloroethane	ND		7.1	0.85	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
1,3,5-Trimethylbenzene	ND		7.1	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
Toluene	**1.5**	**J**	7.1	0.85	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
Xylenes, Total	ND		14	2.0	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
Methyl tertiary butyl ether	ND		7.1	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
Benzene	**3.6**	**J**	7.1	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
Naphthalene	ND		7.1	2.8	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
1,2,4-Trimethylbenzene	ND		7.1	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
Isopropylbenzene	ND		7.1	0.57	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1

Client Sample ID: 1044-P2 (3)

Lab Sample ID: 410-51318-6

Date Collected: 08/13/21 09:00
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 72.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		7.1	0.57	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/16/21 09:56*	*08/22/21 21:40*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/16/21 09:56*	*08/22/21 21:40*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/16/21 09:56*	*08/22/21 21:40*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/16/21 09:56*	*08/22/21 21:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**28**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Benzo[a]anthracene	**180**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Benzo[a]pyrene	**200**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Benzo[b]fluoranthene	**230**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Benzo[g,h,i]perylene	**160**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Chrysene	**180**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Fluorene	**8.5**	**J**	23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Phenanthrene	**110**		23	5.5	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Pyrene	**200**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/20/21 17:42*	*08/23/21 16:02*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/20/21 17:42*	*08/23/21 16:02*	*1*
p-Terphenyl-d14 (Surr)	*90*		*45 - 108*	*08/20/21 17:42*	*08/23/21 16:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**380**		2.0	0.81	mg/Kg	☼	08/16/21 03:44	08/16/21 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.0**		1.0	1.0	%			08/16/21 09:32	1

Client Sample ID: 2045-P2 (3)

Lab Sample ID: 410-51318-7

Date Collected: 08/13/21 09:50
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 67.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.0	0.56	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
1,2-Dichloroethane	ND		7.0	0.84	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
1,3,5-Trimethylbenzene	ND	^c	7.0	0.70	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
Toluene	**3.3**	**J**	7.0	0.84	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
Xylenes, Total	ND		14	2.0	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
Methyl tertiary butyl ether	ND		7.0	0.70	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
Benzene	**1.4**	**J**	7.0	0.70	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
Naphthalene	ND		7.0	2.8	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
1,2,4-Trimethylbenzene	**1.2**	**J**	7.0	0.70	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
Isopropylbenzene	ND	^c	7.0	0.56	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
1,2-Dibromoethane	ND		7.0	0.56	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1

Client Sample ID: 2045-P2 (3)

Date Collected: 08/13/21 09:50
Date Received: 08/13/21 18:00

Lab Sample ID: 410-51318-7

Matrix: Solid
Percent Solids: 67.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		54 - 135	08/16/21 09:56	08/20/21 19:09	1
4-Bromofluorobenzene (Surr)	85		50 - 131	08/16/21 09:56	08/20/21 19:09	1
Dibromofluoromethane (Surr)	106		50 - 141	08/16/21 09:56	08/20/21 19:09	1
Toluene-d8 (Surr)	106		52 - 141	08/16/21 09:56	08/20/21 19:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	8.7	J	24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Benzo[a]anthracene	8.5	J	24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Benzo[a]pyrene	13	J	24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Benzo[b]fluoranthene	21	J	24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Benzo[g,h,i]perylene	13	J	24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Chrysene	19	J	24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Fluorene	30		24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Phenanthrene	64		24	5.8	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Pyrene	30		24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	89		39 - 100	08/20/21 17:42	08/23/21 16:24	1
Nitrobenzene-d5 (Surr)	71		32 - 97	08/20/21 17:42	08/23/21 16:24	1
p-Terphenyl-d14 (Surr)	87		45 - 108	08/20/21 17:42	08/23/21 16:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	29		2.2	0.87	mg/Kg	☼	08/16/21 03:44	08/16/21 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	32.1		1.0	1.0	%			08/16/21 09:32	1

Client Sample ID: 2045-P4 (3)

Date Collected: 08/13/21 10:15
Date Received: 08/13/21 18:00

Lab Sample ID: 410-51318-8

Matrix: Solid
Percent Solids: 54.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	66	J	690	55	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
1,2-Dichloroethane	ND		690	82	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
1,3,5-Trimethylbenzene	230	J	690	69	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
Toluene	ND		690	82	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
Xylenes, Total	370	J	1400	190	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
Methyl tertiary butyl ether	ND		690	69	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
Benzene	ND		690	69	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
Naphthalene	ND		690	270	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
1,2,4-Trimethylbenzene	520	J	690	69	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
Isopropylbenzene	ND		690	55	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
1,2-Dibromoethane	ND		690	55	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		54 - 135	08/16/21 10:50	08/24/21 13:55	50
4-Bromofluorobenzene (Surr)	77		50 - 131	08/16/21 10:50	08/24/21 13:55	50
Dibromofluoromethane (Surr)	51		50 - 141	08/16/21 10:50	08/24/21 13:55	50

Client Sample ID: 2045-P4 (3)

Lab Sample ID: 410-51318-8

Date Collected: 08/13/21 10:15
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 54.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*73*		*52 - 141*	*08/16/21 10:50*	*08/24/21 13:55*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Benzo[a]anthracene	**9.9**	**J**	30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Benzo[a]pyrene	ND		30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Benzo[b]fluoranthene	**9.6**	**J**	30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Benzo[g,h,i]perylene	**8.3**	**J**	30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Chrysene	**33**		30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Fluorene	ND		30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Phenanthrene	ND		30	7.3	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Pyrene	**410**		30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*39 - 100*	*08/20/21 17:42*	*08/23/21 16:46*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*08/20/21 17:42*	*08/23/21 16:46*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/20/21 17:42*	*08/23/21 16:46*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**75**		2.2	0.88	mg/Kg	☼	08/16/21 03:44	08/16/21 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**45.3**		1.0	1.0	%			08/16/21 09:32	1

Client Sample ID: 2045-P5 (3)

Lab Sample ID: 410-51318-9

Date Collected: 08/13/21 10:40
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 58.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**670**		590	47	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
1,2-Dichloroethane	ND		590	71	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
1,3,5-Trimethylbenzene	**15000**		590	59	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
Toluene	ND		590	71	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
Xylenes, Total	**6800**		1200	170	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
Methyl tertiary butyl ether	ND		590	59	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
Benzene	ND		590	59	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
Naphthalene	**13000**		590	240	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
Isopropylbenzene	**1500**		590	47	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
1,2-Dibromoethane	ND		590	47	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*54 - 135*	*08/16/21 10:50*	*08/23/21 18:16*	*50*
4-Bromofluorobenzene (Surr)	*76*		*50 - 131*	*08/16/21 10:50*	*08/23/21 18:16*	*50*
Dibromofluoromethane (Surr)	*0*	*S1-*	*50 - 141*	*08/16/21 10:50*	*08/23/21 18:16*	*50*
Toluene-d8 (Surr)	*72*		*52 - 141*	*08/16/21 10:50*	*08/23/21 18:16*	*50*

Client Sample ID: 2045-P5 (3)

Lab Sample ID: 410-51318-9

Date Collected: 08/13/21 10:40
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 58.1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**33000**		5900	590	ug/Kg	☼	08/16/21 10:50	08/24/21 14:36	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*47*	*S1-*	*54 - 135*	*08/16/21 10:50*	*08/24/21 14:36*	*500*
4-Bromofluorobenzene (Surr)	*70*		*50 - 131*	*08/16/21 10:50*	*08/24/21 14:36*	*500*
Dibromofluoromethane (Surr)	*0*	*S1-*	*50 - 141*	*08/16/21 10:50*	*08/24/21 14:36*	*500*
Toluene-d8 (Surr)	*43*	*S1-*	*52 - 141*	*08/16/21 10:50*	*08/24/21 14:36*	*500*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Benzo[a]anthracene	**11**	**J**	28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Benzo[a]pyrene	ND		28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Benzo[b]fluoranthene	**8.0**	**J**	28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Benzo[g,h,i]perylene	ND		28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Chrysene	**37**		28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Fluorene	**520**		28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Phenanthrene	**5000**		28	6.8	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Pyrene	**470**		28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*53*		*39 - 100*	*08/20/21 17:42*	*08/23/21 17:08*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/20/21 17:42*	*08/23/21 17:08*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/20/21 17:42*	*08/23/21 17:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**210**		1.9	0.78	mg/Kg	☼	08/16/21 03:44	08/16/21 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**41.9**		1.0	1.0	%			08/16/21 09:32	1

Client Sample ID: Pipe 43 (2)

Lab Sample ID: 410-51318-10

Date Collected: 08/13/21 11:05
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 60.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.9	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
1,2-Dichloroethane	ND		8.9	1.1	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
1,3,5-Trimethylbenzene	**7.6**	**J**	8.9	0.89	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
Toluene	ND		8.9	1.1	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
Xylenes, Total	ND		18	2.5	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
Methyl tertiary butyl ether	ND		8.9	0.89	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
Benzene	ND		8.9	0.89	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
Naphthalene	ND		8.9	3.5	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
1,2,4-Trimethylbenzene	**15**		8.9	0.89	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
Isopropylbenzene	ND		8.9	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
1,2-Dibromoethane	ND		8.9	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1

Client Sample ID: Pipe 43 (2)

Date Collected: 08/13/21 11:05
Date Received: 08/13/21 18:00

Lab Sample ID: 410-51318-10

Matrix: Solid
Percent Solids: 60.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		54 - 135	08/16/21 09:56	08/22/21 20:54	1
4-Bromofluorobenzene (Surr)	96		50 - 131	08/16/21 09:56	08/22/21 20:54	1
Dibromofluoromethane (Surr)	106		50 - 141	08/16/21 09:56	08/22/21 20:54	1
Toluene-d8 (Surr)	96		52 - 141	08/16/21 09:56	08/22/21 20:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	17	J	49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Benzo[a]anthracene	40	J	49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Benzo[a]pyrene	37	J	49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Benzo[b]fluoranthene	57		49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Benzo[g,h,i]perylene	39	J	49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Chrysene	51		49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Fluorene	ND		49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Phenanthrene	87		49	12	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Pyrene	72		49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		39 - 100	08/26/21 21:36	08/27/21 11:24	1
Nitrobenzene-d5 (Surr)	70		32 - 97	08/26/21 21:36	08/27/21 11:24	1
p-Terphenyl-d14 (Surr)	81		45 - 108	08/26/21 21:36	08/27/21 11:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	60		1.8	0.71	mg/Kg	☼	08/16/21 03:51	08/18/21 17:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	40.0		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: Pipe 42 (2)

Date Collected: 08/13/21 11:25
Date Received: 08/13/21 18:00

Lab Sample ID: 410-51318-11

Matrix: Solid
Percent Solids: 64.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	41		9.1	0.73	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
1,2-Dichloroethane	ND		9.1	1.1	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
1,3,5-Trimethylbenzene	0.96	J	9.1	0.91	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
Toluene	1.2	J	9.1	1.1	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
Xylenes, Total	330		18	2.5	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
Methyl tertiary butyl ether	ND		9.1	0.91	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
Benzene	ND		9.1	0.91	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
Naphthalene	ND		9.1	3.6	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
1,2,4-Trimethylbenzene	1.4	J	9.1	0.91	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
Isopropylbenzene	1.4	J	9.1	0.73	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
1,2-Dibromoethane	ND		9.1	0.73	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		54 - 135	08/16/21 09:56	08/22/21 20:09	1
4-Bromofluorobenzene (Surr)	92		50 - 131	08/16/21 09:56	08/22/21 20:09	1
Dibromofluoromethane (Surr)	103		50 - 141	08/16/21 09:56	08/22/21 20:09	1

Client Sample ID: Pipe 42 (2)

Lab Sample ID: 410-51318-11

Date Collected: 08/13/21 11:25
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 64.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/16/21 09:56*	*08/22/21 20:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**31**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Benzo[a]anthracene	**45**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Benzo[a]pyrene	**41**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Benzo[b]fluoranthene	**66**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Benzo[g,h,i]perylene	**41**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Chrysene	**80**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Fluorene	ND		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Phenanthrene	**120**		26	6.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Pyrene	**72**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*58*		*39 - 100*	*08/20/21 17:48*	*08/23/21 18:36*	*1*
Nitrobenzene-d5 (Surr)	*50*		*32 - 97*	*08/20/21 17:48*	*08/23/21 18:36*	*1*
p-Terphenyl-d14 (Surr)	*56*		*45 - 108*	*08/20/21 17:48*	*08/23/21 18:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**110**		2.1	0.82	mg/Kg	☼	08/16/21 03:51	08/18/21 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**35.6**		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: Pipe 41 (2)

Lab Sample ID: 410-51318-12

Date Collected: 08/13/21 11:35
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 58.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.1	0.65	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
1,2-Dichloroethane	ND		8.1	0.97	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
1,3,5-Trimethylbenzene	ND		8.1	0.81	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
Toluene	ND		8.1	0.97	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
Xylenes, Total	ND		16	2.3	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
Methyl tertiary butyl ether	ND		8.1	0.81	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
Benzene	ND		8.1	0.81	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
Naphthalene	ND		8.1	3.2	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
1,2,4-Trimethylbenzene	ND		8.1	0.81	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
Isopropylbenzene	ND		8.1	0.65	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
1,2-Dibromoethane	ND		8.1	0.65	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/16/21 09:56*	*08/22/21 18:38*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*08/16/21 09:56*	*08/22/21 18:38*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/16/21 09:56*	*08/22/21 18:38*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/16/21 09:56*	*08/22/21 18:38*	*1*

Client Sample ID: Pipe 41 (2)

Lab Sample ID: 410-51318-12

Date Collected: 08/13/21 11:35
Date Received: 08/13/21 18:00

Matrix: Solid
Percent Solids: 58.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	22	J	29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Benzo[a]anthracene	22	J	29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Benzo[a]pyrene	25	J	29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Benzo[b]fluoranthene	46		29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Benzo[g,h,i]perylene	25	J	29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Chrysene	46		29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Fluorene	8.6	J	29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Phenanthrene	67		29	6.9	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Pyrene	63		29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*43*		*39 - 100*	*08/20/21 17:48*	*08/23/21 18:58*	*1*
Nitrobenzene-d5 (Surr)	*41*		*32 - 97*	*08/20/21 17:48*	*08/23/21 18:58*	*1*
p-Terphenyl-d14 (Surr)	*41*	*S1-*	*45 - 108*	*08/20/21 17:48*	*08/23/21 18:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		1.9	0.77	mg/Kg	☼	08/16/21 03:51	08/18/21 17:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	41.8		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-51318-13

Date Collected: 08/13/21 00:00
Date Received: 08/13/21 18:00

Matrix: Water

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/24/21 12:50	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/24/21 12:50	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/24/21 12:50	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/24/21 12:50	1
Toluene	ND		1.0	0.30	ug/L			08/24/21 12:50	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/24/21 12:50	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/24/21 12:50	1
Benzene	ND		1.0	0.30	ug/L			08/24/21 12:50	1
Naphthalene	ND		5.0	1.0	ug/L			08/24/21 12:50	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/24/21 12:50	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/24/21 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*08/24/21 12:50*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/24/21 12:50*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*08/24/21 12:50*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/24/21 12:50*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-51318-1	Pipe 63 (2)	112	86	106	102
410-51318-2	Pipe 62 (2)	77	71	73	70
410-51318-3	1044-P1 (3)	71	60	69	65
410-51318-4	1044-P3 (3)	115	78	106	107
410-51318-5	649-P5 (3)	66	55	63	59
410-51318-6	1044-P2 (3)	112	91	106	99
410-51318-7	2045-P2 (3)	110	85	106	106
410-51318-8	2045-P4 (3)	84	77	51	73
410-51318-9	2045-P5 (3)	77	76	0 S1-	72
410-51318-9 - DL	2045-P5 (3)	47 S1-	70	0 S1-	43 S1-
410-51318-10	Pipe 43 (2)	111	96	106	96
410-51318-11	Pipe 42 (2)	112	92	103	95
410-51318-12	Pipe 41 (2)	114	92	104	95
LCS 410-162756/5	Lab Control Sample	100	97	100	101
LCS 410-163191/5	Lab Control Sample	104	99	101	101
LCS 410-163301/4	Lab Control Sample	92	92	96	93
LCS 410-163807/6	Lab Control Sample	99	85	96	90
LCSD 410-162756/6	Lab Control Sample Dup	101	99	99	102
LCSD 410-163191/6	Lab Control Sample Dup	103	98	102	99
LCSD 410-163301/5	Lab Control Sample Dup	93	91	97	93
LCSD 410-163807/7	Lab Control Sample Dup	100	86	97	91
MB 410-162756/10	Method Blank	104	92	102	98
MB 410-163191/10	Method Blank	105	93	103	98
MB 410-163301/9	Method Blank	99	91	98	93
MB 410-163807/11	Method Blank	98	83	94	89

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-51318-13	Trip Blank	95	95	96	100
LCS 410-163820/4	Lab Control Sample	97	96	96	101
LCSD 410-163820/5	Lab Control Sample Dup	97	96	97	101
MB 410-163820/6	Method Blank	96	95	96	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 410-51318-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)						
410-51318-1	Pipe 63 (2)	84	62	86						
410-51318-2	Pipe 62 (2)	70	60	80						
410-51318-3	1044-P1 (3)	84	65	88						
410-51318-4	1044-P3 (3)	79	65	82						
410-51318-5	649-P5 (3)	71	56	68						
410-51318-6	1044-P2 (3)	83	65	90						
410-51318-7	2045-P2 (3)	89	71	87						
410-51318-8	2045-P4 (3)	68	74	85						
410-51318-9	2045-P5 (3)	53	72	76						
410-51318-10	Pipe 43 (2)	70	70	81						
410-51318-11	Pipe 42 (2)	58	50	56						
410-51318-12	Pipe 41 (2)	43	41	41 S1-						
LCS 410-161669/2-A	Lab Control Sample	90	73	98						
LCS 410-162989/2-A	Lab Control Sample	85	80	89						
LCS 410-162991/2-A	Lab Control Sample	92	72	97						
LCS 410-165124/2-A	Lab Control Sample	90	79	98						
MB 410-161669/1-A	Method Blank	94	78	103						
MB 410-162989/1-A	Method Blank	80	75	85						
MB 410-162991/1-A	Method Blank	89	72	98						
MB 410-165124/1-A	Method Blank	91	83	107						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-162756/10
Matrix: Solid
Analysis Batch: 162756

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/20/21 13:01	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/20/21 13:01	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/20/21 13:01	1
Toluene	ND		5.0	0.60	ug/Kg			08/20/21 13:01	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/20/21 13:01	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/20/21 13:01	1
Benzene	ND		5.0	0.50	ug/Kg			08/20/21 13:01	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/20/21 13:01	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/20/21 13:01	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/20/21 13:01	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/20/21 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*08/20/21 13:01*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*		*08/20/21 13:01*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*		*08/20/21 13:01*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*		*08/20/21 13:01*	*1*

Lab Sample ID: LCS 410-162756/5
Matrix: Solid
Analysis Batch: 162756

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	16.7		ug/Kg		84	78 - 120		
1,2-Dichloroethane			20.0	18.5		ug/Kg		93	71 - 128		
1,3,5-Trimethylbenzene			20.0	16.1		ug/Kg		80	73 - 120		
Toluene			20.0	16.8		ug/Kg		84	80 - 120		
Xylenes, Total			60.0	50.4		ug/Kg		84	75 - 120		
Methyl tertiary butyl ether			20.0	18.6		ug/Kg		93	72 - 120		
Benzene			20.0	18.0		ug/Kg		90	80 - 120		
Naphthalene			20.0	16.7		ug/Kg		84	48 - 130		
1,2,4-Trimethylbenzene			20.0	16.5		ug/Kg		82	73 - 120		
Isopropylbenzene			20.0	16.0		ug/Kg		80	77 - 120		
1,2-Dibromoethane			20.0	18.5		ug/Kg		92	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: LCSD 410-162756/6
Matrix: Solid
Analysis Batch: 162756

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	16.5		ug/Kg		82	78 - 120	1	30
1,2-Dichloroethane			20.0	17.8		ug/Kg		89	71 - 128	4	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-162756/6
Matrix: Solid
Analysis Batch: 162756

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	16.0		ug/Kg		80	73 - 120	0	30
Toluene			20.0	16.5		ug/Kg		82	80 - 120	2	30
Xylenes, Total			60.0	49.9		ug/Kg		83	75 - 120	1	30
Methyl tertiary butyl ether			20.0	18.1		ug/Kg		90	72 - 120	3	30
Benzene			20.0	17.3		ug/Kg		86	80 - 120	4	30
Naphthalene			20.0	16.3		ug/Kg		82	48 - 130	2	30
1,2,4-Trimethylbenzene			20.0	16.2		ug/Kg		81	73 - 120	2	30
Isopropylbenzene			20.0	15.7		ug/Kg		78	77 - 120	2	30
1,2-Dibromoethane			20.0	18.3		ug/Kg		91	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*99*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*102*		*52 - 141*

Lab Sample ID: MB 410-163191/10
Matrix: Solid
Analysis Batch: 163191

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/22/21 13:28	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/22/21 13:28	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/22/21 13:28	1
Toluene	ND		5.0	0.60	ug/Kg			08/22/21 13:28	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/22/21 13:28	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/22/21 13:28	1
Benzene	ND		5.0	0.50	ug/Kg			08/22/21 13:28	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/22/21 13:28	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/22/21 13:28	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/22/21 13:28	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/22/21 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*		*08/22/21 13:28*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*		*08/22/21 13:28*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*		*08/22/21 13:28*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*		*08/22/21 13:28*	*1*

Lab Sample ID: LCS 410-163191/5
Matrix: Solid
Analysis Batch: 163191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			20.0	17.5		ug/Kg		88	78 - 120
1,2-Dichloroethane			20.0	19.1		ug/Kg		96	71 - 128
1,3,5-Trimethylbenzene			20.0	16.8		ug/Kg		84	73 - 120
Toluene			20.0	17.4		ug/Kg		87	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-163191/5
Matrix: Solid
Analysis Batch: 163191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	60.0	52.4		ug/Kg		87	75 - 120
Methyl tertiary butyl ether	20.0	19.8		ug/Kg		99	72 - 120
Benzene	20.0	18.9		ug/Kg		94	80 - 120
Naphthalene	20.0	16.4		ug/Kg		82	48 - 130
1,2,4-Trimethylbenzene	20.0	17.1		ug/Kg		86	73 - 120
Isopropylbenzene	20.0	17.1		ug/Kg		85	77 - 120
1,2-Dibromoethane	20.0	18.5		ug/Kg		92	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*
4-Bromofluorobenzene (Surr)	*99*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: LCSD 410-163191/6
Matrix: Solid
Analysis Batch: 163191

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	17.5		ug/Kg		87	78 - 120	0	30
1,2-Dichloroethane	20.0	19.2		ug/Kg		96	71 - 128	1	30
1,3,5-Trimethylbenzene	20.0	17.1		ug/Kg		86	73 - 120	2	30
Toluene	20.0	17.4		ug/Kg		87	80 - 120	0	30
Xylenes, Total	60.0	52.4		ug/Kg		87	75 - 120	0	30
Methyl tertiary butyl ether	20.0	20.4		ug/Kg		102	72 - 120	3	30
Benzene	20.0	19.1		ug/Kg		95	80 - 120	1	30
Naphthalene	20.0	16.7		ug/Kg		83	48 - 130	2	30
1,2,4-Trimethylbenzene	20.0	17.4		ug/Kg		87	73 - 120	2	30
Isopropylbenzene	20.0	17.1		ug/Kg		85	77 - 120	0	30
1,2-Dibromoethane	20.0	18.9		ug/Kg		94	76 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*99*		*52 - 141*

Lab Sample ID: MB 410-163301/9
Matrix: Solid
Analysis Batch: 163301

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/23/21 12:33	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/23/21 12:33	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/23/21 12:33	50
Toluene	ND		250	30	ug/Kg			08/23/21 12:33	50
Xylenes, Total	ND		500	70	ug/Kg			08/23/21 12:33	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/23/21 12:33	50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-163301/9
Matrix: Solid
Analysis Batch: 163301

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		250	25	ug/Kg			08/23/21 12:33	50
Naphthalene	ND		250	100	ug/Kg			08/23/21 12:33	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/23/21 12:33	50
Isopropylbenzene	ND		250	20	ug/Kg			08/23/21 12:33	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/23/21 12:33	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*		*08/23/21 12:33*	*50*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*		*08/23/21 12:33*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*08/23/21 12:33*	*50*
Toluene-d8 (Surr)	*93*		*52 - 141*		*08/23/21 12:33*	*50*

Lab Sample ID: LCS 410-163301/4
Matrix: Solid
Analysis Batch: 163301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	961		ug/Kg		96	78 - 120		
1,2-Dichloroethane			1000	966		ug/Kg		97	71 - 128		
1,3,5-Trimethylbenzene			1000	979		ug/Kg		98	73 - 120		
Toluene			1000	968		ug/Kg		97	80 - 120		
Xylenes, Total			3000	2900		ug/Kg		97	75 - 120		
Methyl tertiary butyl ether			1000	1000		ug/Kg		100	72 - 120		
Benzene			1000	1000		ug/Kg		100	80 - 120		
Naphthalene			1000	872		ug/Kg		87	48 - 130		
1,2,4-Trimethylbenzene			1000	964		ug/Kg		96	73 - 120		
Isopropylbenzene			1000	1000		ug/Kg		100	77 - 120		
1,2-Dibromoethane			1000	970		ug/Kg		97	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*54 - 135*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*
Dibromofluoromethane (Surr)	*96*		*50 - 141*
Toluene-d8 (Surr)	*93*		*52 - 141*

Lab Sample ID: LCSD 410-163301/5
Matrix: Solid
Analysis Batch: 163301

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	959		ug/Kg		96	78 - 120	0	30
1,2-Dichloroethane			1000	983		ug/Kg		98	71 - 128	2	30
1,3,5-Trimethylbenzene			1000	975		ug/Kg		98	73 - 120	0	30
Toluene			1000	957		ug/Kg		96	80 - 120	1	30
Xylenes, Total			3000	2870		ug/Kg		96	75 - 120	1	30
Methyl tertiary butyl ether			1000	1010		ug/Kg		101	72 - 120	1	30
Benzene			1000	986		ug/Kg		99	80 - 120	1	30
Naphthalene			1000	922		ug/Kg		92	48 - 130	6	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-163301/5
Matrix: Solid
Analysis Batch: 163301

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			1000	974		ug/Kg		97	73 - 120	1	30
Isopropylbenzene			1000	1000		ug/Kg		100	77 - 120	0	30
1,2-Dibromoethane			1000	967		ug/Kg		97	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*54 - 135*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*93*		*52 - 141*

Lab Sample ID: MB 410-163807/11
Matrix: Solid
Analysis Batch: 163807

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/24/21 12:31	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/24/21 12:31	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/24/21 12:31	50
Toluene	ND		250	30	ug/Kg			08/24/21 12:31	50
Xylenes, Total	ND		500	70	ug/Kg			08/24/21 12:31	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/24/21 12:31	50
Benzene	ND		250	25	ug/Kg			08/24/21 12:31	50
Naphthalene	ND		250	100	ug/Kg			08/24/21 12:31	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/24/21 12:31	50
Isopropylbenzene	ND		250	20	ug/Kg			08/24/21 12:31	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/24/21 12:31	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*54 - 135*		*08/24/21 12:31*	*50*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*		*08/24/21 12:31*	*50*
Dibromofluoromethane (Surr)	*94*		*50 - 141*		*08/24/21 12:31*	*50*
Toluene-d8 (Surr)	*89*		*52 - 141*		*08/24/21 12:31*	*50*

Lab Sample ID: LCS 410-163807/6
Matrix: Solid
Analysis Batch: 163807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	928		ug/Kg		93	78 - 120
1,2-Dichloroethane			1000	925		ug/Kg		92	71 - 128
1,3,5-Trimethylbenzene			1000	844		ug/Kg		84	73 - 120
Toluene			1000	950		ug/Kg		95	80 - 120
Xylenes, Total			3000	2880		ug/Kg		96	75 - 120
Methyl tertiary butyl ether			1000	982		ug/Kg		98	72 - 120
Benzene			1000	987		ug/Kg		99	80 - 120
Naphthalene			1000	791		ug/Kg		79	48 - 130
1,2,4-Trimethylbenzene			1000	839		ug/Kg		84	73 - 120
Isopropylbenzene			1000	937		ug/Kg		94	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-163807/6
Matrix: Solid
Analysis Batch: 163807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			1000	973		ug/Kg		97	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*
4-Bromofluorobenzene (Surr)	*85*		*50 - 131*
Dibromofluoromethane (Surr)	*96*		*50 - 141*
Toluene-d8 (Surr)	*90*		*52 - 141*

Lab Sample ID: LCSD 410-163807/7
Matrix: Solid
Analysis Batch: 163807

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	935		ug/Kg		93	78 - 120	1	30
1,2-Dichloroethane			1000	924		ug/Kg		92	71 - 128	0	30
1,3,5-Trimethylbenzene			1000	847		ug/Kg		85	73 - 120	0	30
Toluene			1000	961		ug/Kg		96	80 - 120	1	30
Xylenes, Total			3000	2890		ug/Kg		96	75 - 120	0	30
Methyl tertiary butyl ether			1000	987		ug/Kg		99	72 - 120	1	30
Benzene			1000	997		ug/Kg		100	80 - 120	1	30
Naphthalene			1000	789		ug/Kg		79	48 - 130	0	30
1,2,4-Trimethylbenzene			1000	845		ug/Kg		84	73 - 120	1	30
Isopropylbenzene			1000	957		ug/Kg		96	77 - 120	2	30
1,2-Dibromoethane			1000	980		ug/Kg		98	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*91*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-163820/6
Matrix: Water
Analysis Batch: 163820

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/24/21 12:02	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/24/21 12:02	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/24/21 12:02	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/24/21 12:02	1
Toluene	ND		1.0	0.30	ug/L			08/24/21 12:02	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/24/21 12:02	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/24/21 12:02	1
Benzene	ND		1.0	0.30	ug/L			08/24/21 12:02	1
Naphthalene	ND		5.0	1.0	ug/L			08/24/21 12:02	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/24/21 12:02	1

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-163820/6
Matrix: Water
Analysis Batch: 163820

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.30	ug/L			08/24/21 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*08/24/21 12:02*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/24/21 12:02*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*08/24/21 12:02*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/24/21 12:02*	*1*

Lab Sample ID: LCS 410-163820/4
Matrix: Water
Analysis Batch: 163820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	17.2		ug/L		86	77 - 120		
Ethylbenzene			20.0	18.1		ug/L		91	80 - 120		
1,2-Dichloroethane			20.0	16.8		ug/L		84	73 - 124		
1,3,5-Trimethylbenzene			20.0	18.0		ug/L		90	75 - 120		
Toluene			20.0	17.7		ug/L		89	80 - 120		
Xylenes, Total			60.0	54.0		ug/L		90	80 - 120		
Methyl tertiary butyl ether			20.0	16.5		ug/L		83	69 - 122		
Benzene			20.0	17.3		ug/L		86	80 - 120		
Naphthalene			20.0	17.2		ug/L		86	53 - 124		
1,2,4-Trimethylbenzene			20.0	17.9		ug/L		89	75 - 120		
Isopropylbenzene			20.0	17.3		ug/L		86	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 410-163820/5
Matrix: Water
Analysis Batch: 163820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	21.0		ug/L		105	77 - 120	20	30
Ethylbenzene			20.0	22.1		ug/L		110	80 - 120	20	30
1,2-Dichloroethane			20.0	20.0		ug/L		100	73 - 124	18	30
1,3,5-Trimethylbenzene			20.0	21.7		ug/L		109	75 - 120	19	30
Toluene			20.0	21.3		ug/L		107	80 - 120	19	30
Xylenes, Total			60.0	65.1		ug/L		109	80 - 120	19	30
Methyl tertiary butyl ether			20.0	20.0		ug/L		100	69 - 122	19	30
Benzene			20.0	20.9		ug/L		104	80 - 120	19	30
Naphthalene			20.0	20.2		ug/L		101	53 - 124	16	30
1,2,4-Trimethylbenzene			20.0	22.0		ug/L		110	75 - 120	21	30
Isopropylbenzene			20.0	21.3		ug/L		106	80 - 120	21	30

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-163820/5
Matrix: Water
Analysis Batch: 163820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-161669/1-A
Matrix: Solid
Analysis Batch: 163104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Chrysene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Fluorene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Phenanthrene	ND		17	4.0	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Pyrene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		39 - 100	08/18/21 10:11	08/21/21 14:28	1
Nitrobenzene-d5 (Surr)	78		32 - 97	08/18/21 10:11	08/21/21 14:28	1
p-Terphenyl-d14 (Surr)	103		45 - 108	08/18/21 10:11	08/21/21 14:28	1

Lab Sample ID: LCS 410-161669/2-A
Matrix: Solid
Analysis Batch: 163104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1460		ug/Kg		87	75 - 120
Benzo[a]anthracene	1670	1580		ug/Kg		95	73 - 120
Benzo[a]pyrene	1670	1510		ug/Kg		90	80 - 123
Benzo[b]fluoranthene	1670	1560		ug/Kg		94	63 - 120
Benzo[g,h,i]perylene	1670	1640		ug/Kg		99	77 - 120
Chrysene	1670	1530		ug/Kg		92	66 - 120
Fluorene	1670	1570		ug/Kg		94	68 - 120
Phenanthrene	1670	1470		ug/Kg		88	74 - 120
Pyrene	1670	1540		ug/Kg		92	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	90		39 - 100
Nitrobenzene-d5 (Surr)	73		32 - 97
p-Terphenyl-d14 (Surr)	98		45 - 108

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-162989/1-A
Matrix: Solid
Analysis Batch: 163107

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162989

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Chrysene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Fluorene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Phenanthrene	ND		17	4.0	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Pyrene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/20/21 17:42*	*08/21/21 15:28*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/20/21 17:42*	*08/21/21 15:28*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/20/21 17:42*	*08/21/21 15:28*	*1*

Lab Sample ID: LCS 410-162989/2-A
Matrix: Solid
Analysis Batch: 163107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1520		ug/Kg		91	75 - 120
Benzo[a]anthracene	1670	1450		ug/Kg		87	73 - 120
Benzo[a]pyrene	1670	1560		ug/Kg		94	80 - 123
Benzo[b]fluoranthene	1670	1440		ug/Kg		86	63 - 120
Benzo[g,h,i]perylene	1670	1490		ug/Kg		90	77 - 120
Chrysene	1670	1370		ug/Kg		82	66 - 120
Fluorene	1670	1460		ug/Kg		88	68 - 120
Phenanthrene	1670	1470		ug/Kg		88	74 - 120
Pyrene	1670	1420		ug/Kg		85	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*
Nitrobenzene-d5 (Surr)	*80*		*32 - 97*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*

Lab Sample ID: MB 410-162991/1-A
Matrix: Solid
Analysis Batch: 163224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Chrysene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Fluorene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Phenanthrene	ND		17	4.0	ug/Kg		08/20/21 17:48	08/23/21 11:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-162991/1-A
Matrix: Solid
Analysis Batch: 163224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/20/21 17:48*	*08/23/21 11:39*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/20/21 17:48*	*08/23/21 11:39*	*1*
p-Terphenyl-d14 (Surr)	*98*		*45 - 108*	*08/20/21 17:48*	*08/23/21 11:39*	*1*

Lab Sample ID: LCS 410-162991/2-A
Matrix: Solid
Analysis Batch: 163224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1520		ug/Kg		91	75 - 120
Benzo[a]anthracene	1670	1640		ug/Kg		98	73 - 120
Benzo[a]pyrene	1670	1560		ug/Kg		93	80 - 123
Benzo[b]fluoranthene	1670	1540		ug/Kg		92	63 - 120
Benzo[g,h,i]perylene	1670	1680		ug/Kg		101	77 - 120
Chrysene	1670	1630		ug/Kg		98	66 - 120
Fluorene	1670	1610		ug/Kg		96	68 - 120
Phenanthrene	1670	1540		ug/Kg		92	74 - 120
Pyrene	1670	1580		ug/Kg		95	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*92*		*39 - 100*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*
p-Terphenyl-d14 (Surr)	*97*		*45 - 108*

Lab Sample ID: MB 410-165124/1-A
Matrix: Solid
Analysis Batch: 165291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Chrysene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Fluorene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Phenanthrene	ND		17	4.0	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Pyrene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/26/21 16:16*	*08/27/21 08:26*	*1*
Nitrobenzene-d5 (Surr)	*83*		*32 - 97*	*08/26/21 16:16*	*08/27/21 08:26*	*1*
p-Terphenyl-d14 (Surr)	*107*		*45 - 108*	*08/26/21 16:16*	*08/27/21 08:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-165124/2-A
Matrix: Solid
Analysis Batch: 165291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1550		ug/Kg		93	75 - 120
Benzo[a]anthracene	1670	1460		ug/Kg		87	73 - 120
Benzo[a]pyrene	1670	1510		ug/Kg		90	80 - 123
Benzo[b]fluoranthene	1670	1430		ug/Kg		86	63 - 120
Benzo[g,h,i]perylene	1670	1760		ug/Kg		106	77 - 120
Chrysene	1670	1610		ug/Kg		96	66 - 120
Fluorene	1670	1530		ug/Kg		92	68 - 120
Phenanthrene	1670	1480		ug/Kg		89	74 - 120
Pyrene	1670	1440		ug/Kg		86	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*90*		*39 - 100*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*
p-Terphenyl-d14 (Surr)	*98*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-160613/1-A
Matrix: Solid
Analysis Batch: 160923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/16/21 03:44	08/16/21 13:38	1

Lab Sample ID: LCS 410-160613/2-A
Matrix: Solid
Analysis Batch: 160923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.18		mg/Kg		104	80 - 120

Lab Sample ID: MB 410-160614/1-A
Matrix: Solid
Analysis Batch: 162054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160614

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/16/21 03:51	08/18/21 16:47	1

Lab Sample ID: LCS 410-160614/2-A
Matrix: Solid
Analysis Batch: 162054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160614

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.23		mg/Kg		105	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-51318-11 MS
Matrix: Solid
Analysis Batch: 162054

Client Sample ID: Pipe 42 (2)
Prep Type: Total/NA
Prep Batch: 160614

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	110		6.93	132	4	mg/Kg	☼	351	75 - 125		

Lab Sample ID: 410-51318-11 MSD
Matrix: Solid
Analysis Batch: 162054

Client Sample ID: Pipe 42 (2)
Prep Type: Total/NA
Prep Batch: 160614

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	110		5.79	117	4	mg/Kg	☼	160	75 - 125	12	20

Lab Sample ID: 410-51318-11 DU
Matrix: Solid
Analysis Batch: 162054

Client Sample ID: Pipe 42 (2)
Prep Type: Total/NA
Prep Batch: 160614

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	110			124		mg/Kg	☼			14	20

GC/MS VOA

Prep Batch: 160790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	5035	
410-51318-4	1044-P3 (3)	Total/NA	Solid	5035	
410-51318-4 - RA	1044-P3 (3)	Total/NA	Solid	5035	
410-51318-6	1044-P2 (3)	Total/NA	Solid	5035	
410-51318-7	2045-P2 (3)	Total/NA	Solid	5035	
410-51318-10	Pipe 43 (2)	Total/NA	Solid	5035	
410-51318-11	Pipe 42 (2)	Total/NA	Solid	5035	
410-51318-12	Pipe 41 (2)	Total/NA	Solid	5035	

Prep Batch: 160812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-2	Pipe 62 (2)	Total/NA	Solid	5035	
410-51318-3	1044-P1 (3)	Total/NA	Solid	5035	
410-51318-5	649-P5 (3)	Total/NA	Solid	5035	
410-51318-8	2045-P4 (3)	Total/NA	Solid	5035	
410-51318-9	2045-P5 (3)	Total/NA	Solid	5035	
410-51318-9 - RA	2045-P5 (3)	Total/NA	Solid	5035	
410-51318-9 - DL	2045-P5 (3)	Total/NA	Solid	5035	

Analysis Batch: 162756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-4	1044-P3 (3)	Total/NA	Solid	8260C	160790
410-51318-7	2045-P2 (3)	Total/NA	Solid	8260C	160790
MB 410-162756/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-162756/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-162756/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 163191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	8260C	160790
410-51318-4 - RA	1044-P3 (3)	Total/NA	Solid	8260C	160790
410-51318-6	1044-P2 (3)	Total/NA	Solid	8260C	160790
410-51318-10	Pipe 43 (2)	Total/NA	Solid	8260C	160790
410-51318-11	Pipe 42 (2)	Total/NA	Solid	8260C	160790
410-51318-12	Pipe 41 (2)	Total/NA	Solid	8260C	160790
MB 410-163191/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-163191/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-163191/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 163301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-2	Pipe 62 (2)	Total/NA	Solid	8260C	160812
410-51318-3	1044-P1 (3)	Total/NA	Solid	8260C	160812
410-51318-5	649-P5 (3)	Total/NA	Solid	8260C	160812
410-51318-9	2045-P5 (3)	Total/NA	Solid	8260C	160812
MB 410-163301/9	Method Blank	Total/NA	Solid	8260C	
LCS 410-163301/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-163301/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS VOA

Analysis Batch: 163807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-8	2045-P4 (3)	Total/NA	Solid	8260C	160812
410-51318-9 - RA	2045-P5 (3)	Total/NA	Solid	8260C	160812
410-51318-9 - DL	2045-P5 (3)	Total/NA	Solid	8260C	160812
MB 410-163807/11	Method Blank	Total/NA	Solid	8260C	
LCS 410-163807/6	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-163807/7	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 163820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-13	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-163820/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-163820/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-163820/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

GC/MS Semi VOA

Prep Batch: 161669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	3546	
410-51318-2	Pipe 62 (2)	Total/NA	Solid	3546	
410-51318-3	1044-P1 (3)	Total/NA	Solid	3546	
410-51318-4	1044-P3 (3)	Total/NA	Solid	3546	
MB 410-161669/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-161669/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 162989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-5	649-P5 (3)	Total/NA	Solid	3546	
410-51318-6	1044-P2 (3)	Total/NA	Solid	3546	
410-51318-7	2045-P2 (3)	Total/NA	Solid	3546	
410-51318-8	2045-P4 (3)	Total/NA	Solid	3546	
410-51318-9	2045-P5 (3)	Total/NA	Solid	3546	
MB 410-162989/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-162989/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 162991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-11	Pipe 42 (2)	Total/NA	Solid	3546	
410-51318-12	Pipe 41 (2)	Total/NA	Solid	3546	
MB 410-162991/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-162991/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 163104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	8270D	161669
410-51318-2	Pipe 62 (2)	Total/NA	Solid	8270D	161669
410-51318-3	1044-P1 (3)	Total/NA	Solid	8270D	161669
410-51318-4	1044-P3 (3)	Total/NA	Solid	8270D	161669
MB 410-161669/1-A	Method Blank	Total/NA	Solid	8270D	161669
LCS 410-161669/2-A	Lab Control Sample	Total/NA	Solid	8270D	161669

GC/MS Semi VOA

Analysis Batch: 163107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-162989/1-A	Method Blank	Total/NA	Solid	8270D	162989
LCS 410-162989/2-A	Lab Control Sample	Total/NA	Solid	8270D	162989

Analysis Batch: 163224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-5	649-P5 (3)	Total/NA	Solid	8270D	162989
410-51318-6	1044-P2 (3)	Total/NA	Solid	8270D	162989
410-51318-7	2045-P2 (3)	Total/NA	Solid	8270D	162989
410-51318-8	2045-P4 (3)	Total/NA	Solid	8270D	162989
410-51318-9	2045-P5 (3)	Total/NA	Solid	8270D	162989
410-51318-11	Pipe 42 (2)	Total/NA	Solid	8270D	162991
410-51318-12	Pipe 41 (2)	Total/NA	Solid	8270D	162991
MB 410-162991/1-A	Method Blank	Total/NA	Solid	8270D	162991
LCS 410-162991/2-A	Lab Control Sample	Total/NA	Solid	8270D	162991

Prep Batch: 165124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-10	Pipe 43 (2)	Total/NA	Solid	3546	
MB 410-165124/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-165124/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 165291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-10	Pipe 43 (2)	Total/NA	Solid	8270D	165124
MB 410-165124/1-A	Method Blank	Total/NA	Solid	8270D	165124
LCS 410-165124/2-A	Lab Control Sample	Total/NA	Solid	8270D	165124

Metals

Prep Batch: 160613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	3050B	
410-51318-2	Pipe 62 (2)	Total/NA	Solid	3050B	
410-51318-3	1044-P1 (3)	Total/NA	Solid	3050B	
410-51318-4	1044-P3 (3)	Total/NA	Solid	3050B	
410-51318-5	649-P5 (3)	Total/NA	Solid	3050B	
410-51318-6	1044-P2 (3)	Total/NA	Solid	3050B	
410-51318-7	2045-P2 (3)	Total/NA	Solid	3050B	
410-51318-8	2045-P4 (3)	Total/NA	Solid	3050B	
410-51318-9	2045-P5 (3)	Total/NA	Solid	3050B	
MB 410-160613/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-160613/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 160614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-10	Pipe 43 (2)	Total/NA	Solid	3050B	
410-51318-11	Pipe 42 (2)	Total/NA	Solid	3050B	
410-51318-12	Pipe 41 (2)	Total/NA	Solid	3050B	
MB 410-160614/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-160614/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-51318-11 MS	Pipe 42 (2)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 160614 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-11 MSD	Pipe 42 (2)	Total/NA	Solid	3050B	
410-51318-11 DU	Pipe 42 (2)	Total/NA	Solid	3050B	

Analysis Batch: 160923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	6010C	160613
410-51318-2	Pipe 62 (2)	Total/NA	Solid	6010C	160613
410-51318-3	1044-P1 (3)	Total/NA	Solid	6010C	160613
410-51318-4	1044-P3 (3)	Total/NA	Solid	6010C	160613
410-51318-5	649-P5 (3)	Total/NA	Solid	6010C	160613
410-51318-6	1044-P2 (3)	Total/NA	Solid	6010C	160613
410-51318-7	2045-P2 (3)	Total/NA	Solid	6010C	160613
410-51318-8	2045-P4 (3)	Total/NA	Solid	6010C	160613
410-51318-9	2045-P5 (3)	Total/NA	Solid	6010C	160613
MB 410-160613/1-A	Method Blank	Total/NA	Solid	6010C	160613
LCS 410-160613/2-A	Lab Control Sample	Total/NA	Solid	6010C	160613

Analysis Batch: 162054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-10	Pipe 43 (2)	Total/NA	Solid	6010C	160614
410-51318-11	Pipe 42 (2)	Total/NA	Solid	6010C	160614
410-51318-12	Pipe 41 (2)	Total/NA	Solid	6010C	160614
MB 410-160614/1-A	Method Blank	Total/NA	Solid	6010C	160614
LCS 410-160614/2-A	Lab Control Sample	Total/NA	Solid	6010C	160614
410-51318-11 MS	Pipe 42 (2)	Total/NA	Solid	6010C	160614
410-51318-11 MSD	Pipe 42 (2)	Total/NA	Solid	6010C	160614
410-51318-11 DU	Pipe 42 (2)	Total/NA	Solid	6010C	160614

General Chemistry

Analysis Batch: 160744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	Moisture	
410-51318-2	Pipe 62 (2)	Total/NA	Solid	Moisture	
410-51318-3	1044-P1 (3)	Total/NA	Solid	Moisture	
410-51318-4	1044-P3 (3)	Total/NA	Solid	Moisture	
410-51318-10	Pipe 43 (2)	Total/NA	Solid	Moisture	
410-51318-11	Pipe 42 (2)	Total/NA	Solid	Moisture	
410-51318-12	Pipe 41 (2)	Total/NA	Solid	Moisture	

Analysis Batch: 160782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-5	649-P5 (3)	Total/NA	Solid	Moisture	
410-51318-6	1044-P2 (3)	Total/NA	Solid	Moisture	
410-51318-7	2045-P2 (3)	Total/NA	Solid	Moisture	
410-51318-8	2045-P4 (3)	Total/NA	Solid	Moisture	
410-51318-9	2045-P5 (3)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Client Sample ID: Pipe 63 (2)

Lab Sample ID: 410-51318-1

Date Collected: 08/12/21 11:40

Matrix: Solid

Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Client Sample ID: Pipe 63 (2)

Lab Sample ID: 410-51318-1

Date Collected: 08/12/21 11:40

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 72.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	163191	08/22/21 20:32	UCB5	ELLE
Total/NA	Prep	3546			161669	08/18/21 10:11	U9KU	ELLE
Total/NA	Analysis	8270D		1	163104	08/21/21 17:38	SJ89	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 13:59	WJM9	ELLE

Client Sample ID: Pipe 62 (2)

Lab Sample ID: 410-51318-2

Date Collected: 08/12/21 11:50

Matrix: Solid

Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Client Sample ID: Pipe 62 (2)

Lab Sample ID: 410-51318-2

Date Collected: 08/12/21 11:50

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C		50	163301	08/23/21 16:47	SWV2	ELLE
Total/NA	Prep	3546			161669	08/18/21 10:11	U9KU	ELLE
Total/NA	Analysis	8270D		1	163104	08/21/21 18:02	SJ89	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:02	WJM9	ELLE

Client Sample ID: 1044-P1 (3)

Lab Sample ID: 410-51318-3

Date Collected: 08/12/21 12:00

Matrix: Solid

Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Client Sample ID: 1044-P1 (3)

Lab Sample ID: 410-51318-3
Date Collected: 08/12/21 12:00
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C		50	163301	08/23/21 17:09	SWV2	ELLE
Total/NA	Prep	3546			161669	08/18/21 10:11	U9KU	ELLE
Total/NA	Analysis	8270D		1	163104	08/21/21 18:25	SJ89	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:06	WJM9	ELLE

Client Sample ID: 1044-P3 (3)

Lab Sample ID: 410-51318-4
Date Collected: 08/12/21 12:30
Matrix: Solid
Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Client Sample ID: 1044-P3 (3)

Lab Sample ID: 410-51318-4
Date Collected: 08/12/21 12:30
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 65.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	162756	08/20/21 15:18	USEJ	ELLE
Total/NA	Prep	5035	RA		160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	163191	08/22/21 18:16	UCB5	ELLE
Total/NA	Prep	3546			161669	08/18/21 10:11	U9KU	ELLE
Total/NA	Analysis	8270D		1	163104	08/21/21 18:48	SJ89	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:09	WJM9	ELLE

Client Sample ID: 649-P5 (3)

Lab Sample ID: 410-51318-5
Date Collected: 08/13/21 09:20
Matrix: Solid
Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160782	08/16/21 09:32	UWC1	ELLE

Client Sample ID: 649-P5 (3)

Lab Sample ID: 410-51318-5
Date Collected: 08/13/21 09:20
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C		50	163301	08/23/21 17:32	SWV2	ELLE
Total/NA	Prep	3546			162989	08/20/21 17:42	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 15:40	ULM3	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:28	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Client Sample ID: 1044-P2 (3)

Lab Sample ID: 410-51318-6

Date Collected: 08/13/21 09:00
Date Received: 08/13/21 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160782	08/16/21 09:32	UWC1	ELLE

Client Sample ID: 1044-P2 (3)

Lab Sample ID: 410-51318-6

Date Collected: 08/13/21 09:00
Date Received: 08/13/21 18:00

Matrix: Solid
Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	163191	08/22/21 21:40	UCB5	ELLE
Total/NA	Prep	3546			162989	08/20/21 17:42	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 16:02	ULM3	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:31	WJM9	ELLE

Client Sample ID: 2045-P2 (3)

Lab Sample ID: 410-51318-7

Date Collected: 08/13/21 09:50
Date Received: 08/13/21 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160782	08/16/21 09:32	UWC1	ELLE

Client Sample ID: 2045-P2 (3)

Lab Sample ID: 410-51318-7

Date Collected: 08/13/21 09:50
Date Received: 08/13/21 18:00

Matrix: Solid
Percent Solids: 67.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	162756	08/20/21 19:09	USEJ	ELLE
Total/NA	Prep	3546			162989	08/20/21 17:42	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 16:24	ULM3	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:35	WJM9	ELLE

Client Sample ID: 2045-P4 (3)

Lab Sample ID: 410-51318-8

Date Collected: 08/13/21 10:15
Date Received: 08/13/21 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160782	08/16/21 09:32	UWC1	ELLE

Client Sample ID: 2045-P4 (3)

Lab Sample ID: 410-51318-8

Date Collected: 08/13/21 10:15

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 54.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C		50	163807	08/24/21 13:55	USEJ	ELLE
Total/NA	Prep	3546			162989	08/20/21 17:42	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 16:46	ULM3	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:38	WJM9	ELLE

Client Sample ID: 2045-P5 (3)

Lab Sample ID: 410-51318-9

Date Collected: 08/13/21 10:40

Matrix: Solid

Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160782	08/16/21 09:32	UWC1	ELLE

Client Sample ID: 2045-P5 (3)

Lab Sample ID: 410-51318-9

Date Collected: 08/13/21 10:40

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 58.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C		50	163301	08/23/21 18:16	SWV2	ELLE
Total/NA	Prep	5035	RA		160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C	RA	50	163807	08/24/21 14:16	USEJ	ELLE
Total/NA	Prep	5035	DL		160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C	DL	500	163807	08/24/21 14:36	USEJ	ELLE
Total/NA	Prep	3546			162989	08/20/21 17:42	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 17:08	ULM3	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:42	WJM9	ELLE

Client Sample ID: Pipe 43 (2)

Lab Sample ID: 410-51318-10

Date Collected: 08/13/21 11:05

Matrix: Solid

Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Client Sample ID: Pipe 43 (2)

Lab Sample ID: 410-51318-10

Date Collected: 08/13/21 11:05

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 60.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	163191	08/22/21 20:54	UCB5	ELLE
Total/NA	Prep	3546			165124	08/26/21 21:36	FTV5	ELLE
Total/NA	Analysis	8270D		1	165291	08/27/21 11:24	ULM3	ELLE

Client Sample ID: Pipe 43 (2)

Lab Sample ID: 410-51318-10
Date Collected: 08/13/21 11:05
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 60.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			160614	08/16/21 03:51	WBK6	ELLE
Total/NA	Analysis	6010C		1	162054	08/18/21 17:29	XQY5	ELLE

Client Sample ID: Pipe 42 (2)

Lab Sample ID: 410-51318-11
Date Collected: 08/13/21 11:25
Matrix: Solid
Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Client Sample ID: Pipe 42 (2)

Lab Sample ID: 410-51318-11
Date Collected: 08/13/21 11:25
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 64.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	163191	08/22/21 20:09	UCB5	ELLE
Total/NA	Prep	3546			162991	08/20/21 17:48	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 18:36	ULM3	ELLE
Total/NA	Prep	3050B			160614	08/16/21 03:51	WBK6	ELLE
Total/NA	Analysis	6010C		1	162054	08/18/21 17:00	XQY5	ELLE

Client Sample ID: Pipe 41 (2)

Lab Sample ID: 410-51318-12
Date Collected: 08/13/21 11:35
Matrix: Solid
Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Client Sample ID: Pipe 41 (2)

Lab Sample ID: 410-51318-12
Date Collected: 08/13/21 11:35
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 58.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	163191	08/22/21 18:38	UCB5	ELLE
Total/NA	Prep	3546			162991	08/20/21 17:48	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 18:58	ULM3	ELLE
Total/NA	Prep	3050B			160614	08/16/21 03:51	WBK6	ELLE
Total/NA	Analysis	6010C		1	162054	08/18/21 17:25	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-51318-13

Date Collected: 08/13/21 00:00

Matrix: Water

Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	163820	08/24/21 12:50	LCW8	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-51318-1	Pipe 63 (2)	Solid	08/12/21 11:40	08/13/21 18:00
410-51318-2	Pipe 62 (2)	Solid	08/12/21 11:50	08/13/21 18:00
410-51318-3	1044-P1 (3)	Solid	08/12/21 12:00	08/13/21 18:00
410-51318-4	1044-P3 (3)	Solid	08/12/21 12:30	08/13/21 18:00
410-51318-5	649-P5 (3)	Solid	08/13/21 09:20	08/13/21 18:00
410-51318-6	1044-P2 (3)	Solid	08/13/21 09:00	08/13/21 18:00
410-51318-7	2045-P2 (3)	Solid	08/13/21 09:50	08/13/21 18:00
410-51318-8	2045-P4 (3)	Solid	08/13/21 10:15	08/13/21 18:00
410-51318-9	2045-P5 (3)	Solid	08/13/21 10:40	08/13/21 18:00
410-51318-10	Pipe 43 (2)	Solid	08/13/21 11:05	08/13/21 18:00
410-51318-11	Pipe 42 (2)	Solid	08/13/21 11:25	08/13/21 18:00
410-51318-12	Pipe 41 (2)	Solid	08/13/21 11:35	08/13/21 18:00
410-51318-13	Trip Blank	Water	08/13/21 00:00	08/13/21 18:00

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone 717-656-2300 Fax 717-656-2681

Chain of Custody Record

410-51318 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: DH / TM	Lab PM: Carter, Amek A	COC No: 410-31049-9562 6
Client Contact: Mark Schaeffer	Phone: 4844673657	E-Mail: Loran Carter@eurofinset.com	Page: Page 6 of 8
Company: Stantec Consulting Corp	PWSID:		Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:		
City: West Chester	TAT Requested (days): 5 days		
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No		
Phone:	PO #: Purchase Order Requested		
Email: mark.schaeffer@stantec.com	WO #:		
Project Name: PBF Logistics	Project #: 41007459		
Site: 51st Street Terminal	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
Pipe 63 (2)	8/12/21	1140	G	Solid		X	X			
Pipe 62 (2)	8/12/21	1150	G	Solid		X	X			
1044 - P1 (3)	8/12/21	1200	G	Solid		X	X			
1044 - P3 (3)	8/12/21	1230	G	Solid		X	X			
049 - P5 (3)	8/13/21	0920	G	Solid		X	X			
1044 - P2 (3)	8/13/21	0900	G	Solid		X	X			
2045 - P2 (3)	8/13/21	0950	G	Solid		X	X			
2045 - P4 (3)	8/13/21	1015	G	Solid		X	X			
2045 - P5 (3)	8/13/21	1040	G	Solid		X	X			
Pipe 43 (2)	8/13/21	1105	G	Solid		X	X			
Pipe 42 (2)	8/13/21	1125	G	Solid		X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by		Date		Time		Method of Shipment	
Relinquished by	Date/Time: 8/13/21 1305	Company: Stantec	Received by	Date/Time: 8/13/21 13:05	Company: ELE		
Relinquished by	Date/Time: 8/13/21 18:00	Company: ELE	Received by	Date/Time	Company		
Relinquished by	Date/Time	Company	Received by	Date/Time: 8/13/21 18:00	Company: ELE		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No: | Cooler Temperature(s) °C and Other Remarks: 1.6°C

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: DH / TM	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-31049-9562 7
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran Carter@eurofinset.com	State of Origin: PA	Page: Page 7 of 8
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	A		
Pipe 41 (2)	8/13/21	1135	G	Solid		X	X			
Trip Blank	8/13/21	—	G	Solid				X		
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/13/21 1305	Stantec		8/13/21 1305	ELE
2		8/13/21 18:00	ELE		Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	8/13/21 18:00	ELE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 1.6°C

Ver: 06/08/2021

8/27/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-51318-1

Login Number: 51318

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Knoedler, Christine M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-55731-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
9/27/2021 4:33:10 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Amek Carter
Project Manager
9/27/2021 4:33:10 PM

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Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-55731-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-55731-1

Receipt
The samples were received on 9/20/2021 5:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions
One 4oz soil jar container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 4847-Center (5) (410-55731-7). The container label lists 4847-east (5), while the COC lists 4847-Center (5).

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: 1044-Center (5) (410-55731-1), 649-Center (5) (410-55731-2), 1043-Center (5) (410-55731-3), 1248-Center (5) (410-55731-4), DUP-8 (410-55731-5) and 4847-Center (5) (410-55731-7). Elevated reporting limits (RLs) are provided.

Method 8260C: Internal standard (ISTD) response for t-Butyl alcohol-d10 for the following sample was outside acceptance criteria: 4847-West (5) (410-55731-8). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Client Sample ID: 1044-Center (5) — Lab Sample ID: 410-55731-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	550		490	200	ug/Kg	50	☼	8260C	Total/NA
Anthracene	14	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	75		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	130		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	160		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	98		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	97		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	75		24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	79		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Lead	990		2.0	0.81	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 649-Center (5) — Lab Sample ID: 410-55731-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	37		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	92		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	83		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	98		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	48		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	98		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	15	J	22	4.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	150		22	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	180		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Lead	230		1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1043-Center (5) — Lab Sample ID: 410-55731-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	4.2	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	100		20	4.9	ug/Kg	1	☼	8270D	Total/NA
Lead	23		1.7	0.67	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1248-Center (5) — Lab Sample ID: 410-55731-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	19		1.8	0.71	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP-8 — Lab Sample ID: 410-55731-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	16		1.7	0.68	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 4847-East (5) — Lab Sample ID: 410-55731-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17		1.5	0.60	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 4847-Center (5) — Lab Sample ID: 410-55731-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Client Sample ID: 4847-West (5)

Lab Sample ID: 410-55731-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		1.2	0.48	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-55731-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1044-Center (5)

Lab Sample ID: 410-55731-1

Date Collected: 09/16/21 10:35
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 68.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		490	39	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
1,2-Dichloroethane	ND		490	59	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
1,3,5-Trimethylbenzene	ND		490	49	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
Toluene	ND		490	59	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
Xylenes, Total	ND		980	140	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
Methyl tertiary butyl ether	ND		490	49	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
Benzene	ND		490	49	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
Naphthalene	**550**		490	200	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
1,2,4-Trimethylbenzene	ND		490	49	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
Isopropylbenzene	ND		490	39	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
1,2-Dibromoethane	ND		490	39	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*09/22/21 10:31*	*09/24/21 14:19*	*50*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*09/22/21 10:31*	*09/24/21 14:19*	*50*
Dibromofluoromethane (Surr)	*110*		*50 - 141*	*09/22/21 10:31*	*09/24/21 14:19*	*50*
Toluene-d8 (Surr)	*105*		*52 - 141*	*09/22/21 10:31*	*09/24/21 14:19*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**14**	**J**	24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Benzo[a]anthracene	**75**		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Benzo[a]pyrene	**130**		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Benzo[b]fluoranthene	**160**		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Benzo[g,h,i]perylene	**98**		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Chrysene	**97**		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Fluorene	ND		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Phenanthrene	**75**		24	5.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Pyrene	**79**		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*09/23/21 08:56*	*09/24/21 08:08*	*1*
Nitrobenzene-d5 (Surr)	*62*		*32 - 97*	*09/23/21 08:56*	*09/24/21 08:08*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*09/23/21 08:56*	*09/24/21 08:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**990**		2.0	0.81	mg/Kg	☼	09/22/21 07:51	09/22/21 19:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.3**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: 649-Center (5)

Lab Sample ID: 410-55731-2

Date Collected: 09/16/21 11:25
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 76.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		540	43	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
1,2-Dichloroethane	ND		540	64	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50

Client Sample ID: 649-Center (5)

Lab Sample ID: 410-55731-2

Date Collected: 09/16/21 11:25
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 76.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		540	54	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
Toluene	ND		540	64	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
Xylenes, Total	ND		1100	150	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
Methyl tertiary butyl ether	ND		540	54	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
Benzene	ND		540	54	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
Naphthalene	ND		540	210	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
1,2,4-Trimethylbenzene	ND		540	54	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
Isopropylbenzene	ND		540	43	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
1,2-Dibromoethane	ND		540	43	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*09/22/21 10:31*	*09/24/21 14:41*	*50*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*09/22/21 10:31*	*09/24/21 14:41*	*50*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*09/22/21 10:31*	*09/24/21 14:41*	*50*
Toluene-d8 (Surr)	*101*		*52 - 141*	*09/22/21 10:31*	*09/24/21 14:41*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**37**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Benzo[a]anthracene	**92**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Benzo[a]pyrene	**83**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Benzo[b]fluoranthene	**98**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Benzo[g,h,i]perylene	**48**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Chrysene	**98**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Fluorene	**15**	**J**	22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Phenanthrene	**150**		22	5.2	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Pyrene	**180**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*09/23/21 08:56*	*09/24/21 08:30*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*09/23/21 08:56*	*09/24/21 08:30*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*09/23/21 08:56*	*09/24/21 08:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**230**		1.7	0.69	mg/Kg	☼	09/22/21 07:51	09/22/21 19:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.3**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: 1043-Center (5)

Lab Sample ID: 410-55731-3

Date Collected: 09/16/21 12:20
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		470	38	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
1,2-Dichloroethane	ND		470	57	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
1,3,5-Trimethylbenzene	ND		470	47	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
Toluene	ND		470	57	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50

Client Sample ID: 1043-Center (5)

Lab Sample ID: 410-55731-3

Date Collected: 09/16/21 12:20
Date Received: 09/20/21 17:15

Matrix: Solid
Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		940	130	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
Methyl tertiary butyl ether	ND		470	47	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
Benzene	ND		470	47	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
Naphthalene	ND		470	190	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
1,2,4-Trimethylbenzene	ND		470	47	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
Isopropylbenzene	ND		470	38	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
1,2-Dibromoethane	ND		470	38	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*09/22/21 10:31*	*09/24/21 15:03*	*50*
4-Bromofluorobenzene (Surr)	*111*		*50 - 131*	*09/22/21 10:31*	*09/24/21 15:03*	*50*
Dibromofluoromethane (Surr)	*110*		*50 - 141*	*09/22/21 10:31*	*09/24/21 15:03*	*50*
Toluene-d8 (Surr)	*109*		*52 - 141*	*09/22/21 10:31*	*09/24/21 15:03*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Benzo[a]anthracene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Benzo[a]pyrene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Benzo[b]fluoranthene	**4.2**	**J**	20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Benzo[g,h,i]perylene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Chrysene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Fluorene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Phenanthrene	**100**		20	4.9	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Pyrene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*39 - 100*	*09/23/21 08:56*	*09/24/21 08:53*	*1*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*	*09/23/21 08:56*	*09/24/21 08:53*	*1*
p-Terphenyl-d14 (Surr)	*73*		*45 - 108*	*09/23/21 08:56*	*09/24/21 08:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**23**		1.7	0.67	mg/Kg	☼	09/22/21 07:51	09/22/21 19:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.2**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: 1248-Center (5)

Lab Sample ID: 410-55731-4

Date Collected: 09/16/21 13:00
Date Received: 09/20/21 17:15

Matrix: Solid
Percent Solids: 73.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		370	30	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
1,2-Dichloroethane	ND		370	45	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
1,3,5-Trimethylbenzene	ND		370	37	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
Toluene	ND		370	45	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
Xylenes, Total	ND		750	100	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
Methyl tertiary butyl ether	ND		370	37	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50

Client Sample ID: 1248-Center (5)

Lab Sample ID: 410-55731-4

Date Collected: 09/16/21 13:00
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 73.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		370	37	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
Naphthalene	ND		370	150	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
1,2,4-Trimethylbenzene	ND		370	37	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
Isopropylbenzene	ND		370	30	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
1,2-Dibromoethane	ND		370	30	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*09/22/21 10:31*	*09/24/21 15:25*	*50*
4-Bromofluorobenzene (Surr)	*122*		*50 - 131*	*09/22/21 10:31*	*09/24/21 15:25*	*50*
Dibromofluoromethane (Surr)	*113*		*50 - 141*	*09/22/21 10:31*	*09/24/21 15:25*	*50*
Toluene-d8 (Surr)	*114*		*52 - 141*	*09/22/21 10:31*	*09/24/21 15:25*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Benzo[a]anthracene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Benzo[a]pyrene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Benzo[b]fluoranthene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Benzo[g,h,i]perylene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Chrysene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Fluorene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Phenanthrene	ND		23	5.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Pyrene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*09/23/21 08:56*	*09/24/21 09:16*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*09/23/21 08:56*	*09/24/21 09:16*	*1*
p-Terphenyl-d14 (Surr)	*91*		*45 - 108*	*09/23/21 08:56*	*09/24/21 09:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**19**		1.8	0.71	mg/Kg	☼	09/22/21 07:51	09/22/21 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.0**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: DUP-8

Lab Sample ID: 410-55731-5

Date Collected: 09/16/21 00:00
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 70.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		390	31	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
1,2-Dichloroethane	ND		390	47	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
1,3,5-Trimethylbenzene	ND		390	39	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
Toluene	ND		390	47	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
Xylenes, Total	ND		790	110	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
Methyl tertiary butyl ether	ND		390	39	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
Benzene	ND		390	39	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
Naphthalene	ND		390	160	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50

Client Sample ID: DUP-8

Date Collected: 09/16/21 00:00
Date Received: 09/20/21 17:15

Lab Sample ID: 410-55731-5

Matrix: Solid
Percent Solids: 70.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		390	39	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
Isopropylbenzene	ND		390	31	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
1,2-Dibromoethane	ND		390	31	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*	*09/22/21 10:31*	*09/24/21 15:47*	*50*
4-Bromofluorobenzene (Surr)	*114*		*50 - 131*	*09/22/21 10:31*	*09/24/21 15:47*	*50*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*09/22/21 10:31*	*09/24/21 15:47*	*50*
Toluene-d8 (Surr)	*106*		*52 - 141*	*09/22/21 10:31*	*09/24/21 15:47*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Benzo[a]anthracene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Benzo[a]pyrene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Benzo[b]fluoranthene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Benzo[g,h,i]perylene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Chrysene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Fluorene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Phenanthrene	ND		23	5.6	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Pyrene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*09/23/21 08:56*	*09/24/21 22:04*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*09/23/21 08:56*	*09/24/21 22:04*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*09/23/21 08:56*	*09/24/21 22:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**16**		1.7	0.68	mg/Kg	☼	09/22/21 07:51	09/22/21 19:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.3**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: 4847-East (5)

Date Collected: 09/16/21 13:45
Date Received: 09/20/21 17:15

Lab Sample ID: 410-55731-6

Matrix: Solid
Percent Solids: 84.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
1,2-Dichloroethane	ND		5.0	0.59	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
Toluene	ND		5.0	0.59	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
Xylenes, Total	ND		9.9	1.4	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
Benzene	ND		5.0	0.50	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
Naphthalene	ND		5.0	2.0	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1

Client Sample ID: 4847-East (5)

Lab Sample ID: 410-55731-6

Date Collected: 09/16/21 13:45
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 84.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*09/22/21 10:46*	*09/23/21 18:38*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*09/22/21 10:46*	*09/23/21 18:38*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*09/22/21 10:46*	*09/23/21 18:38*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*09/22/21 10:46*	*09/23/21 18:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Benzo[a]anthracene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Benzo[a]pyrene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Benzo[b]fluoranthene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Benzo[g,h,i]perylene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Chrysene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Fluorene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Phenanthrene	ND		20	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Pyrene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*09/23/21 08:56*	*09/24/21 22:27*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*09/23/21 08:56*	*09/24/21 22:27*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*09/23/21 08:56*	*09/24/21 22:27*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**17**		1.5	0.60	mg/Kg	☼	09/22/21 07:51	09/22/21 19:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.0**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: 4847-Center (5)

Lab Sample ID: 410-55731-7

Date Collected: 09/16/21 14:00
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 85.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		330	27	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
1,2-Dichloroethane	ND		330	40	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
1,3,5-Trimethylbenzene	ND		330	33	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
Toluene	ND		330	40	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
Xylenes, Total	ND		670	93	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
Methyl tertiary butyl ether	ND		330	33	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
Benzene	ND		330	33	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
Naphthalene	ND		330	130	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
1,2,4-Trimethylbenzene	ND		330	33	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
Isopropylbenzene	ND		330	27	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
1,2-Dibromoethane	ND		330	27	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50

Client Sample ID: 4847-Center (5)

Lab Sample ID: 410-55731-7

Date Collected: 09/16/21 14:00
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 85.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*09/22/21 10:31*	*09/24/21 16:09*	*50*
4-Bromofluorobenzene (Surr)	*114*		*50 - 131*	*09/22/21 10:31*	*09/24/21 16:09*	*50*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*09/22/21 10:31*	*09/24/21 16:09*	*50*
Toluene-d8 (Surr)	*110*		*52 - 141*	*09/22/21 10:31*	*09/24/21 16:09*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Benzo[a]anthracene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Benzo[a]pyrene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Benzo[b]fluoranthene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Benzo[g,h,i]perylene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Chrysene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Fluorene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Phenanthrene	ND		19	4.6	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Pyrene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*09/23/21 08:56*	*09/24/21 22:49*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*09/23/21 08:56*	*09/24/21 22:49*	*1*
p-Terphenyl-d14 (Surr)	*97*		*45 - 108*	*09/23/21 08:56*	*09/24/21 22:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		1.5	0.59	mg/Kg	☼	09/22/21 07:51	09/22/21 19:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.4**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: 4847-West (5)

Lab Sample ID: 410-55731-8

Date Collected: 09/16/21 15:15
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 88.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.4	0.51	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
1,2-Dichloroethane	ND		6.4	0.76	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
1,3,5-Trimethylbenzene	ND		6.4	0.64	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
Toluene	ND		6.4	0.76	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
Xylenes, Total	ND		13	1.8	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
Methyl tertiary butyl ether	ND		6.4	0.64	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
Benzene	ND		6.4	0.64	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
Naphthalene	ND		6.4	2.5	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
1,2,4-Trimethylbenzene	ND		6.4	0.64	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
Isopropylbenzene	ND		6.4	0.51	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
1,2-Dibromoethane	ND		6.4	0.51	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*54 - 135*	*09/22/21 10:46*	*09/27/21 14:26*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*09/22/21 10:46*	*09/27/21 14:26*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*09/22/21 10:46*	*09/27/21 14:26*	*1*

Client Sample ID: 4847-West (5)

Lab Sample ID: 410-55731-8

Date Collected: 09/16/21 15:15
Date Received: 09/20/21 17:15

Matrix: Solid
Percent Solids: 88.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*91*		*52 - 141*	*09/22/21 10:46*	*09/27/21 14:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Benzo[a]anthracene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Benzo[a]pyrene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Benzo[b]fluoranthene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Benzo[g,h,i]perylene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Chrysene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Fluorene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Pyrene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*09/23/21 08:56*	*09/24/21 23:12*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*09/23/21 08:56*	*09/24/21 23:12*	*1*
p-Terphenyl-d14 (Surr)	*90*		*45 - 108*	*09/23/21 08:56*	*09/24/21 23:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**18**		1.2	0.48	mg/Kg	☼	09/22/21 07:51	09/22/21 20:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.4**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-55731-9

Date Collected: 09/16/21 00:00
Date Received: 09/20/21 17:15

Matrix: Water

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			09/22/21 13:56	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/22/21 13:56	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/22/21 13:56	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			09/22/21 13:56	1
Toluene	ND		1.0	0.30	ug/L			09/22/21 13:56	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/22/21 13:56	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/22/21 13:56	1
Benzene	ND		1.0	0.30	ug/L			09/22/21 13:56	1
Naphthalene	ND		5.0	1.0	ug/L			09/22/21 13:56	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			09/22/21 13:56	1
Isopropylbenzene	ND		5.0	0.30	ug/L			09/22/21 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/22/21 13:56*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/22/21 13:56*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*09/22/21 13:56*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/22/21 13:56*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-55731-1	1044-Center (5)	111	96	110	105
410-55731-2	649-Center (5)	111	92	109	101
410-55731-3	1043-Center (5)	113	111	110	109
410-55731-4	1248-Center (5)	116	122	113	114
410-55731-5	DUP-8	106	114	106	106
410-55731-6	4847-East (5)	111	91	104	95
410-55731-7	4847-Center (5)	111	114	109	110
410-55731-8	4847-West (5)	117	93	107	91
LCS 410-174574/4	Lab Control Sample	104	93	102	96
LCS 410-174985/4	Lab Control Sample	100	98	99	97
LCS 410-175637/4	Lab Control Sample	102	94	105	94
LCSD 410-174574/5	Lab Control Sample Dup	101	94	101	97
LCSD 410-174985/5	Lab Control Sample Dup	101	98	98	97
LCSD 410-175637/5	Lab Control Sample Dup	103	94	105	94
MB 410-174574/7	Method Blank	104	92	104	94
MB 410-174985/7	Method Blank	99	97	95	97
MB 410-175637/7	Method Blank	105	90	106	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-55731-9	Trip Blank	98	98	95	102
LCS 410-174114/4	Lab Control Sample	100	101	95	103
LCSD 410-174114/5	Lab Control Sample Dup	102	101	96	103
MB 410-174114/6	Method Blank	100	99	96	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-55731-1	1044-Center (5)	74	62	83
410-55731-2	649-Center (5)	74	63	83
410-55731-3	1043-Center (5)	68	61	73
410-55731-4	1248-Center (5)	82	74	91

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 410-55731-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)						
410-55731-5	DUP-8	79	68	87						
410-55731-6	4847-East (5)	80	74	89						
410-55731-7	4847-Center (5)	85	74	97						
410-55731-8	4847-West (5)	80	72	90						
LCS 410-174459/2-A	Lab Control Sample	75	75	88						
MB 410-174459/1-A	Method Blank	86	83	99						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-174574/7
Matrix: Solid
Analysis Batch: 174574

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/23/21 13:30	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/23/21 13:30	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/23/21 13:30	1
Toluene	ND		5.0	0.60	ug/Kg			09/23/21 13:30	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/23/21 13:30	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			09/23/21 13:30	1
Benzene	ND		5.0	0.50	ug/Kg			09/23/21 13:30	1
Naphthalene	ND		5.0	2.0	ug/Kg			09/23/21 13:30	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/23/21 13:30	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			09/23/21 13:30	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/23/21 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*09/23/21 13:30*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*		*09/23/21 13:30*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*		*09/23/21 13:30*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*		*09/23/21 13:30*	*1*

Lab Sample ID: LCS 410-174574/4
Matrix: Solid
Analysis Batch: 174574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	18.3		ug/Kg		92	78 - 120
1,2-Dichloroethane	20.0	20.2		ug/Kg		101	71 - 128
1,3,5-Trimethylbenzene	20.0	17.4		ug/Kg		87	73 - 120
Toluene	20.0	18.0		ug/Kg		90	80 - 120
Xylenes, Total	60.0	55.9		ug/Kg		93	75 - 120
Methyl tertiary butyl ether	20.0	18.3		ug/Kg		92	72 - 120
Benzene	20.0	19.0		ug/Kg		95	80 - 120
Naphthalene	20.0	17.4		ug/Kg		87	48 - 130
1,2,4-Trimethylbenzene	20.0	17.5		ug/Kg		88	73 - 120
Isopropylbenzene	20.0	18.5		ug/Kg		92	77 - 120
1,2-Dibromoethane	20.0	19.7		ug/Kg		98	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*96*		*52 - 141*

Lab Sample ID: LCSD 410-174574/5
Matrix: Solid
Analysis Batch: 174574

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	17.4		ug/Kg		87	78 - 120	5	30
1,2-Dichloroethane	20.0	19.1		ug/Kg		96	71 - 128	6	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-174574/5
Matrix: Solid
Analysis Batch: 174574

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	16.6		ug/Kg		83	73 - 120	5	30
Toluene			20.0	17.4		ug/Kg		87	80 - 120	3	30
Xylenes, Total			60.0	53.9		ug/Kg		90	75 - 120	4	30
Methyl tertiary butyl ether			20.0	17.0		ug/Kg		85	72 - 120	7	30
Benzene			20.0	18.4		ug/Kg		92	80 - 120	3	30
Naphthalene			20.0	15.0		ug/Kg		75	48 - 130	15	30
1,2,4-Trimethylbenzene			20.0	16.5		ug/Kg		83	73 - 120	6	30
Isopropylbenzene			20.0	17.5		ug/Kg		87	77 - 120	5	30
1,2-Dibromoethane			20.0	17.9		ug/Kg		90	76 - 120	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: MB 410-174985/7
Matrix: Solid
Analysis Batch: 174985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			09/24/21 11:53	50
1,2-Dichloroethane	ND		250	30	ug/Kg			09/24/21 11:53	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			09/24/21 11:53	50
Toluene	ND		250	30	ug/Kg			09/24/21 11:53	50
Xylenes, Total	ND		500	70	ug/Kg			09/24/21 11:53	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			09/24/21 11:53	50
Benzene	ND		250	25	ug/Kg			09/24/21 11:53	50
Naphthalene	ND		250	100	ug/Kg			09/24/21 11:53	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			09/24/21 11:53	50
Isopropylbenzene	ND		250	20	ug/Kg			09/24/21 11:53	50
1,2-Dibromoethane	ND		250	20	ug/Kg			09/24/21 11:53	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*		*09/24/21 11:53*	*50*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*		*09/24/21 11:53*	*50*
Dibromofluoromethane (Surr)	*95*		*50 - 141*		*09/24/21 11:53*	*50*
Toluene-d8 (Surr)	*97*		*52 - 141*		*09/24/21 11:53*	*50*

Lab Sample ID: LCS 410-174985/4
Matrix: Solid
Analysis Batch: 174985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	1010		ug/Kg		101	78 - 120
1,2-Dichloroethane			1000	1060		ug/Kg		106	71 - 128
1,3,5-Trimethylbenzene			1000	1010		ug/Kg		101	73 - 120
Toluene			1000	1020		ug/Kg		102	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-174985/4
Matrix: Solid
Analysis Batch: 174985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	3000	3040		ug/Kg		101	75 - 120
Methyl tertiary butyl ether	1000	1030		ug/Kg		103	72 - 120
Benzene	1000	1030		ug/Kg		103	80 - 120
Naphthalene	1000	998		ug/Kg		100	48 - 130
1,2,4-Trimethylbenzene	1000	1030		ug/Kg		103	73 - 120
Isopropylbenzene	1000	1040		ug/Kg		104	77 - 120
1,2-Dibromoethane	1000	1030		ug/Kg		103	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: LCSD 410-174985/5
Matrix: Solid
Analysis Batch: 174985

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	1000	1020		ug/Kg		102	78 - 120	0	30
1,2-Dichloroethane	1000	1060		ug/Kg		106	71 - 128	0	30
1,3,5-Trimethylbenzene	1000	1020		ug/Kg		102	73 - 120	0	30
Toluene	1000	1010		ug/Kg		101	80 - 120	1	30
Xylenes, Total	3000	3030		ug/Kg		101	75 - 120	0	30
Methyl tertiary butyl ether	1000	1020		ug/Kg		102	72 - 120	1	30
Benzene	1000	1030		ug/Kg		103	80 - 120	0	30
Naphthalene	1000	988		ug/Kg		99	48 - 130	1	30
1,2,4-Trimethylbenzene	1000	1030		ug/Kg		103	73 - 120	0	30
Isopropylbenzene	1000	1050		ug/Kg		105	77 - 120	0	30
1,2-Dibromoethane	1000	1030		ug/Kg		103	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*98*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: MB 410-175637/7
Matrix: Solid
Analysis Batch: 175637

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/27/21 12:10	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/27/21 12:10	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/27/21 12:10	1
Toluene	ND		5.0	0.60	ug/Kg			09/27/21 12:10	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/27/21 12:10	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			09/27/21 12:10	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-175637/7
Matrix: Solid
Analysis Batch: 175637

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.50	ug/Kg			09/27/21 12:10	1
Naphthalene	ND		5.0	2.0	ug/Kg			09/27/21 12:10	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/27/21 12:10	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			09/27/21 12:10	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/27/21 12:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*		*09/27/21 12:10*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*		*09/27/21 12:10*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*		*09/27/21 12:10*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*		*09/27/21 12:10*	*1*

Lab Sample ID: LCS 410-175637/4
Matrix: Solid
Analysis Batch: 175637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	18.5		ug/Kg		92	78 - 120		
1,2-Dichloroethane			20.0	21.4		ug/Kg		107	71 - 128		
1,3,5-Trimethylbenzene			20.0	17.5		ug/Kg		88	73 - 120		
Toluene			20.0	18.3		ug/Kg		91	80 - 120		
Xylenes, Total			60.0	57.1		ug/Kg		95	75 - 120		
Methyl tertiary butyl ether			20.0	20.2		ug/Kg		101	72 - 120		
Benzene			20.0	20.1		ug/Kg		100	80 - 120		
Naphthalene			20.0	18.0		ug/Kg		90	48 - 130		
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		90	73 - 120		
Isopropylbenzene			20.0	19.3		ug/Kg		97	77 - 120		
1,2-Dibromoethane			20.0	19.9		ug/Kg		99	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*105*		*50 - 141*
Toluene-d8 (Surr)	*94*		*52 - 141*

Lab Sample ID: LCSD 410-175637/5
Matrix: Solid
Analysis Batch: 175637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	17.9		ug/Kg		89	78 - 120	3	30
1,2-Dichloroethane			20.0	20.9		ug/Kg		105	71 - 128	2	30
1,3,5-Trimethylbenzene			20.0	17.4		ug/Kg		87	73 - 120	1	30
Toluene			20.0	17.7		ug/Kg		88	80 - 120	3	30
Xylenes, Total			60.0	55.8		ug/Kg		93	75 - 120	2	30
Methyl tertiary butyl ether			20.0	19.6		ug/Kg		98	72 - 120	3	30
Benzene			20.0	19.3		ug/Kg		96	80 - 120	4	30
Naphthalene			20.0	18.0		ug/Kg		90	48 - 130	0	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-175637/5
Matrix: Solid
Analysis Batch: 175637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		89	73 - 120	0	30
Isopropylbenzene			20.0	18.5		ug/Kg		92	77 - 120	5	30
1,2-Dibromoethane			20.0	19.4		ug/Kg		97	76 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*105*		*50 - 141*
Toluene-d8 (Surr)	*94*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-174114/6
Matrix: Water
Analysis Batch: 174114

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			09/22/21 12:49	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/22/21 12:49	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/22/21 12:49	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			09/22/21 12:49	1
Toluene	ND		1.0	0.30	ug/L			09/22/21 12:49	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/22/21 12:49	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/22/21 12:49	1
Benzene	ND		1.0	0.30	ug/L			09/22/21 12:49	1
Naphthalene	ND		5.0	1.0	ug/L			09/22/21 12:49	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			09/22/21 12:49	1
Isopropylbenzene	ND		5.0	0.30	ug/L			09/22/21 12:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/22/21 12:49*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/22/21 12:49*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/22/21 12:49*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/22/21 12:49*	*1*

Lab Sample ID: LCS 410-174114/4
Matrix: Water
Analysis Batch: 174114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	19.1		ug/L		95	77 - 120		
Ethylbenzene			20.0	22.8		ug/L		114	80 - 120		
1,2-Dichloroethane			20.0	19.2		ug/L		96	73 - 124		
1,3,5-Trimethylbenzene			20.0	22.2		ug/L		111	75 - 120		
Toluene			20.0	19.9		ug/L		99	80 - 120		
Xylenes, Total			60.0	60.6		ug/L		101	80 - 120		
Methyl tertiary butyl ether			20.0	16.4		ug/L		82	69 - 122		
Benzene			20.0	20.5		ug/L		102	80 - 120		

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-174114/4
Matrix: Water
Analysis Batch: 174114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	20.0	19.0		ug/L		95	53 - 124
1,2,4-Trimethylbenzene	20.0	22.3		ug/L		111	75 - 120
Isopropylbenzene	20.0	19.4		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 410-174114/5
Matrix: Water
Analysis Batch: 174114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	20.0	19.0		ug/L		95	77 - 120	0	30
Ethylbenzene	20.0	22.5		ug/L		113	80 - 120	1	30
1,2-Dichloroethane	20.0	19.6		ug/L		98	73 - 124	2	30
1,3,5-Trimethylbenzene	20.0	22.0		ug/L		110	75 - 120	1	30
Toluene	20.0	19.6		ug/L		98	80 - 120	1	30
Xylenes, Total	60.0	59.4		ug/L		99	80 - 120	2	30
Methyl tertiary butyl ether	20.0	20.3		ug/L		102	69 - 122	21	30
Benzene	20.0	20.7		ug/L		103	80 - 120	1	30
Naphthalene	20.0	21.0		ug/L		105	53 - 124	10	30
1,2,4-Trimethylbenzene	20.0	22.2		ug/L		111	75 - 120	0	30
Isopropylbenzene	20.0	19.5		ug/L		97	80 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-174459/1-A
Matrix: Solid
Analysis Batch: 174838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Chrysene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Fluorene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Phenanthrene	ND		17	4.0	ug/Kg		09/23/21 08:56	09/23/21 20:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-174459/1-A
Matrix: Solid
Analysis Batch: 174838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*09/23/21 08:56*	*09/23/21 20:59*	*1*
Nitrobenzene-d5 (Surr)	*83*		*32 - 97*	*09/23/21 08:56*	*09/23/21 20:59*	*1*
p-Terphenyl-d14 (Surr)	*99*		*45 - 108*	*09/23/21 08:56*	*09/23/21 20:59*	*1*

Lab Sample ID: LCS 410-174459/2-A
Matrix: Solid
Analysis Batch: 174838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174459

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1420		ug/Kg		85	75 - 120
Benzo[a]anthracene	1670	1460		ug/Kg		87	73 - 120
Benzo[a]pyrene	1670	1480		ug/Kg		89	80 - 123
Benzo[b]fluoranthene	1670	1360		ug/Kg		82	63 - 120
Benzo[g,h,i]perylene	1670	1470		ug/Kg		88	77 - 120
Chrysene	1670	1330		ug/Kg		80	66 - 120
Fluorene	1670	1320		ug/Kg		79	68 - 120
Phenanthrene	1670	1340		ug/Kg		81	74 - 120
Pyrene	1670	1310		ug/Kg		79	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*39 - 100*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-174031/1-A
Matrix: Solid
Analysis Batch: 174409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		09/22/21 07:51	09/22/21 19:07	1

Lab Sample ID: LCS 410-174031/2-A
Matrix: Solid
Analysis Batch: 174409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.61		mg/Kg		112	80 - 120

Lab Sample ID: LCSD 410-174031/3-A
Matrix: Solid
Analysis Batch: 174409

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174031

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	5.00	5.62		mg/Kg		112	80 - 120	0	20

GC/MS VOA

Analysis Batch: 174114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-9	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-174114/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-174114/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-174114/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Prep Batch: 174133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	5035	
410-55731-2	649-Center (5)	Total/NA	Solid	5035	
410-55731-3	1043-Center (5)	Total/NA	Solid	5035	
410-55731-4	1248-Center (5)	Total/NA	Solid	5035	
410-55731-5	DUP-8	Total/NA	Solid	5035	
410-55731-7	4847-Center (5)	Total/NA	Solid	5035	

Prep Batch: 174140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-6	4847-East (5)	Total/NA	Solid	5035	
410-55731-8	4847-West (5)	Total/NA	Solid	5035	

Analysis Batch: 174574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-6	4847-East (5)	Total/NA	Solid	8260C	174140
MB 410-174574/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-174574/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-174574/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 174985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	8260C	174133
410-55731-2	649-Center (5)	Total/NA	Solid	8260C	174133
410-55731-3	1043-Center (5)	Total/NA	Solid	8260C	174133
410-55731-4	1248-Center (5)	Total/NA	Solid	8260C	174133
410-55731-5	DUP-8	Total/NA	Solid	8260C	174133
410-55731-7	4847-Center (5)	Total/NA	Solid	8260C	174133
MB 410-174985/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-174985/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-174985/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 175637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-8	4847-West (5)	Total/NA	Solid	8260C	174140
MB 410-175637/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-175637/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-175637/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 174459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	3546	
410-55731-2	649-Center (5)	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 174459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-3	1043-Center (5)	Total/NA	Solid	3546	
410-55731-4	1248-Center (5)	Total/NA	Solid	3546	
410-55731-5	DUP-8	Total/NA	Solid	3546	
410-55731-6	4847-East (5)	Total/NA	Solid	3546	
410-55731-7	4847-Center (5)	Total/NA	Solid	3546	
410-55731-8	4847-West (5)	Total/NA	Solid	3546	
MB 410-174459/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-174459/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 174838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-174459/1-A	Method Blank	Total/NA	Solid	8270D	174459
LCS 410-174459/2-A	Lab Control Sample	Total/NA	Solid	8270D	174459

Analysis Batch: 174870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	8270D	174459
410-55731-2	649-Center (5)	Total/NA	Solid	8270D	174459
410-55731-3	1043-Center (5)	Total/NA	Solid	8270D	174459
410-55731-4	1248-Center (5)	Total/NA	Solid	8270D	174459

Analysis Batch: 175105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-5	DUP-8	Total/NA	Solid	8270D	174459
410-55731-6	4847-East (5)	Total/NA	Solid	8270D	174459
410-55731-7	4847-Center (5)	Total/NA	Solid	8270D	174459
410-55731-8	4847-West (5)	Total/NA	Solid	8270D	174459

Metals

Prep Batch: 174031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	3050B	
410-55731-2	649-Center (5)	Total/NA	Solid	3050B	
410-55731-3	1043-Center (5)	Total/NA	Solid	3050B	
410-55731-4	1248-Center (5)	Total/NA	Solid	3050B	
410-55731-5	DUP-8	Total/NA	Solid	3050B	
410-55731-6	4847-East (5)	Total/NA	Solid	3050B	
410-55731-7	4847-Center (5)	Total/NA	Solid	3050B	
410-55731-8	4847-West (5)	Total/NA	Solid	3050B	
MB 410-174031/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-174031/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 410-174031/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

Analysis Batch: 174409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	6010C	174031
410-55731-2	649-Center (5)	Total/NA	Solid	6010C	174031
410-55731-3	1043-Center (5)	Total/NA	Solid	6010C	174031
410-55731-4	1248-Center (5)	Total/NA	Solid	6010C	174031
410-55731-5	DUP-8	Total/NA	Solid	6010C	174031

Metals (Continued)

Analysis Batch: 174409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-6	4847-East (5)	Total/NA	Solid	6010C	174031
410-55731-7	4847-Center (5)	Total/NA	Solid	6010C	174031
410-55731-8	4847-West (5)	Total/NA	Solid	6010C	174031
MB 410-174031/1-A	Method Blank	Total/NA	Solid	6010C	174031
LCS 410-174031/2-A	Lab Control Sample	Total/NA	Solid	6010C	174031
LCSD 410-174031/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	174031

General Chemistry

Analysis Batch: 173933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	Moisture	
410-55731-2	649-Center (5)	Total/NA	Solid	Moisture	
410-55731-3	1043-Center (5)	Total/NA	Solid	Moisture	
410-55731-4	1248-Center (5)	Total/NA	Solid	Moisture	
410-55731-5	DUP-8	Total/NA	Solid	Moisture	
410-55731-6	4847-East (5)	Total/NA	Solid	Moisture	
410-55731-7	4847-Center (5)	Total/NA	Solid	Moisture	
410-55731-8	4847-West (5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Client Sample ID: 1044-Center (5)

Lab Sample ID: 410-55731-1

Date Collected: 09/16/21 10:35

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: 1044-Center (5)

Lab Sample ID: 410-55731-1

Date Collected: 09/16/21 10:35

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174133	09/22/21 10:31	JJT8	ELLE
Total/NA	Analysis	8260C		50	174985	09/24/21 14:19	SWV2	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	174870	09/24/21 08:08	UWHS	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:34	XQY5	ELLE

Client Sample ID: 649-Center (5)

Lab Sample ID: 410-55731-2

Date Collected: 09/16/21 11:25

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: 649-Center (5)

Lab Sample ID: 410-55731-2

Date Collected: 09/16/21 11:25

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174133	09/22/21 10:31	JJT8	ELLE
Total/NA	Analysis	8260C		50	174985	09/24/21 14:41	SWV2	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	174870	09/24/21 08:30	UWHS	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:37	XQY5	ELLE

Client Sample ID: 1043-Center (5)

Lab Sample ID: 410-55731-3

Date Collected: 09/16/21 12:20

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: 1043-Center (5)

Lab Sample ID: 410-55731-3

Date Collected: 09/16/21 12:20

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174133	09/22/21 10:31	JJT8	ELLE
Total/NA	Analysis	8260C		50	174985	09/24/21 15:03	SWV2	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	174870	09/24/21 08:53	UWHS	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:41	XQY5	ELLE

Client Sample ID: 1248-Center (5)

Lab Sample ID: 410-55731-4

Date Collected: 09/16/21 13:00

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: 1248-Center (5)

Lab Sample ID: 410-55731-4

Date Collected: 09/16/21 13:00

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 73.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174133	09/22/21 10:31	JJT8	ELLE
Total/NA	Analysis	8260C		50	174985	09/24/21 15:25	SWV2	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	174870	09/24/21 09:16	UWHS	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:44	XQY5	ELLE

Client Sample ID: DUP-8

Lab Sample ID: 410-55731-5

Date Collected: 09/16/21 00:00

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: DUP-8

Lab Sample ID: 410-55731-5

Date Collected: 09/16/21 00:00

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174133	09/22/21 10:31	JJT8	ELLE
Total/NA	Analysis	8260C		50	174985	09/24/21 15:47	SWV2	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	175105	09/24/21 22:04	SJ89	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:48	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Client Sample ID: 4847-East (5)

Lab Sample ID: 410-55731-6

Date Collected: 09/16/21 13:45

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: 4847-East (5)

Lab Sample ID: 410-55731-6

Date Collected: 09/16/21 13:45

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174140	09/22/21 10:46	JJT8	ELLE
Total/NA	Analysis	8260C		1	174574	09/23/21 18:38	ULCP	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	175105	09/24/21 22:27	SJ89	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:51	XQY5	ELLE

Client Sample ID: 4847-Center (5)

Lab Sample ID: 410-55731-7

Date Collected: 09/16/21 14:00

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: 4847-Center (5)

Lab Sample ID: 410-55731-7

Date Collected: 09/16/21 14:00

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174133	09/22/21 10:31	JJT8	ELLE
Total/NA	Analysis	8260C		50	174985	09/24/21 16:09	SWV2	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	175105	09/24/21 22:49	SJ89	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:55	XQY5	ELLE

Client Sample ID: 4847-West (5)

Lab Sample ID: 410-55731-8

Date Collected: 09/16/21 15:15

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Client Sample ID: 4847-West (5)

Lab Sample ID: 410-55731-8

Date Collected: 09/16/21 15:15
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174140	09/22/21 10:46	JJT8	ELLE
Total/NA	Analysis	8260C		1	175637	09/27/21 14:26	USEJ	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	175105	09/24/21 23:12	SJ89	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 20:05	XQY5	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-55731-9

Date Collected: 09/16/21 00:00
Matrix: Water
Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	174114	09/22/21 13:56	MXX6	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-55731-1	1044-Center (5)	Solid	09/16/21 10:35	09/20/21 17:15
410-55731-2	649-Center (5)	Solid	09/16/21 11:25	09/20/21 17:15
410-55731-3	1043-Center (5)	Solid	09/16/21 12:20	09/20/21 17:15
410-55731-4	1248-Center (5)	Solid	09/16/21 13:00	09/20/21 17:15
410-55731-5	DUP-8	Solid	09/16/21 00:00	09/20/21 17:15
410-55731-6	4847-East (5)	Solid	09/16/21 13:45	09/20/21 17:15
410-55731-7	4847-Center (5)	Solid	09/16/21 14:00	09/20/21 17:15
410-55731-8	4847-West (5)	Solid	09/16/21 15:15	09/20/21 17:15
410-55731-9	Trip Blank	Water	09/16/21 00:00	09/20/21 17:15

, LLC

Chain of Custody Record

eurofins Environment Testing America

410-55731 Chain of Custody

Client Contact: Mark Schaeffer	Sampler: Ian Andrea Dana Holstad	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-33899-9562.1
Company: Stantec Consulting Corp.	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 1 of 2
Address: 1060 Andrew Drive Suite 140	PWSID:	Analysis Requested		Job #:
City: West Chester	Due Date Requested:			Preservation Codes:
State, Zip: PA, 19380	TAT Requested (days): 5 dall			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Phone:	Compliance Project: Δ Yes Δ No			Other:
Email: mark.schaeffer@stantec.com	PO #: 213403451			
Project Name: PBF Logistics	WO #:			
Site: 51st Street Terminal	Project #: 41007459			
	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			T	N	A		
1044 - Center (5)	9/16/21	1035	G	Solid		X	X			
649 - Center (5)	9/16/21	1125	G	Solid		X	X			
1043 - Center (5)	9/16/21	1220	G	Solid		X	X			
1248 - Center (5)	9/16/21	1300	G	Solid		X	X			
DUP - 8	9/16/21	—	G	Solid		X	X			
4847 - east (5)	9/16/21	1345	G	Solid		X	X			
4847 - Center (5)	9/16/21	1400	G	Solid		X	X			
4847 - West (5)	9/16/21	1515	G	Solid		X	X			
Trip Blank	9/16/21	—	—	Solid				X		
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company: Stantec	Received by:	Date/Time: 9-20-21 1338	Company: Eurofins	
Relinquished by:	Date/Time: 9-20-21 1715	Company: Eurofins	Received by:	Date/Time:	Company:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 9/20/21 1715	Company: EUFT	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.0			

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-55731-1

Login Number: 55731

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Leakway, Christian

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-56522-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
10/1/2021 5:22:35 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Amek Carter
Project Manager
10/1/2021 5:22:35 PM

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Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-56522-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-56522-1

Receipt
The samples were received on 9/24/2021 7:31 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 2040-Center (5) (410-56522-2). The container labels list time of 09:14, while the COC lists time of 09:15. The collection time was logged per the COC.

GC/MS VOA
Method 8260C: The following sample was diluted due to the abundance of non-target analytes: 7550-P4 (3) (410-56522-13). Elevated reporting limits (RLs) are provided.

Method 8260C: Surrogate recovery for the following sample was outside control limits: 7550-P1 (3) (410-56522-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D: Surrogate recovery for the following sample was outside acceptance limits: DUP-9 (410-56522-16). The was contacted and the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Client Sample ID: 4847-P5 (3) — Lab Sample ID: 410-56522-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		1.8	0.71	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2040-Center (5) — Lab Sample ID: 410-56522-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	17	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	17	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	18	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.6	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	35		26	5.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	17	J	26	6.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	22	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Lead	24		2.2	0.86	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2045-Center (5) — Lab Sample ID: 410-56522-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	7.4	J	25	5.9	ug/Kg	1	☼	8270D	Total/NA
Lead	6.7		1.9	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 941-Center (5) — Lab Sample ID: 410-56522-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	45000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]anthracene	49000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]pyrene	35000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Benzo[b]fluoranthene	38000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Benzo[g,h,i]perylene	17000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Chrysene	41000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Fluorene	24000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Phenanthrene	150000		1100	270	ug/Kg	50	☼	8270D	Total/NA
Pyrene	89000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Lead	560		1.9	0.75	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-Center (5) — Lab Sample ID: 410-56522-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	2.3	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.8	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
Anthracene	84		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	190		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	240		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	160		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	230		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	54		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	320		27	6.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	410		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Lead	88		1.9	0.75	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Client Sample ID: 7550-P2 (3) — Lab Sample ID: 410-56522-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	5.8	J	7.0	0.70	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.3	J	7.0	0.84	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	4.2	J	14	2.0	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.1	J	7.0	0.70	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	4.8	J	7.0	0.70	ug/Kg	1	☼	8260C	Total/NA
Anthracene	400		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1700		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1600		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2100		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1100		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	1600		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	130		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1300		23	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	2500		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	170		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-P1 (3) — Lab Sample ID: 410-56522-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	5.2	J	9.2	0.73	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	230		9.2	0.92	ug/Kg	1	☼	8260C	Total/NA
Toluene	12		9.2	1.1	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	99		18	2.6	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.9	J	9.2	0.92	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	54		9.2	3.7	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	350		9.2	0.92	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	5.1	J	9.2	0.73	ug/Kg	1	☼	8260C	Total/NA
1,2-Dibromoethane	0.89	J	9.2	0.73	ug/Kg	1	☼	8260C	Total/NA
Anthracene	230		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	970		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1200		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1300		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	840		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	920		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	93		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	780		30	7.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1200		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Lead	690		2.4	0.96	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-P7 (3) — Lab Sample ID: 410-56522-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	4.1	J	7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.2	J	7.5	0.90	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.7	J	15	2.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.9	J	7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	3.9	J	7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
Anthracene	32		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	110		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	120		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	140		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	98		27	5.4	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 7550-P7 (3) (Continued) — Lab Sample ID: 410-56522-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	110		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	15	J	27	5.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	170		27	6.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	190		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Lead	85		2.1	0.82	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-P6 (3) — Lab Sample ID: 410-56522-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	3.8	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.7	J	9.6	1.2	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.98	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	6.2	J	9.6	3.9	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	4.3	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Anthracene	230		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	680		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	480		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	680		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	300		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	650		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	54		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	790		26	6.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1500		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Lead	87		2.2	0.90	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-P3 (3) — Lab Sample ID: 410-56522-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.77	J	6.2	0.75	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.74	J	6.2	0.62	ug/Kg	1	☼	8260C	Total/NA
Anthracene	400		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1600		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1600		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2000		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1100		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	1600		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	190		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1200		21	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	2600		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	48		1.8	0.72	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: UNK-ST-W (3) — Lab Sample ID: 410-56522-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	3.2	J	8.4	0.84	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.1	J	8.4	1.0	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.0	J	17	2.3	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.5	J	8.4	0.84	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2.3	J	8.4	0.84	ug/Kg	1	☼	8260C	Total/NA
Anthracene	210		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1000		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	770		27	5.5	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: UNK-ST-W (3) (Continued)

Lab Sample ID: 410-56522-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	1100		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	500		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	1100		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	54		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	630		27	6.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	2500		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Lead	120		2.3	0.93	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: UNK-ST-E (3)

Lab Sample ID: 410-56522-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.1	J	5.8	0.47	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	6.9		5.8	0.58	ug/Kg	1	☼	8260C	Total/NA
Toluene	5.7	J	5.8	0.70	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	11	J	12	1.6	ug/Kg	1	☼	8260C	Total/NA
Benzene	4.1	J	5.8	0.58	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	9.0		5.8	2.3	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	4.9	J	5.8	0.58	ug/Kg	1	☼	8260C	Total/NA
Anthracene	59		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	250		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	220		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	310		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	180		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	250		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	28		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	220		23	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	410		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	49		1.8	0.73	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-P4 (3)

Lab Sample ID: 410-56522-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	63	J	400	40	ug/Kg	50	☼	8260C	Total/NA
Toluene	59	J	400	48	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	180	J	810	110	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	260	J	400	160	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	87	J	400	40	ug/Kg	50	☼	8260C	Total/NA
Anthracene	3400		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	8900		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	7300		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	9700		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5000		210	42	ug/Kg	10	☼	8270D	Total/NA
Chrysene	8200		210	42	ug/Kg	10	☼	8270D	Total/NA
Fluorene	1800		210	42	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	15000		210	51	ug/Kg	10	☼	8270D	Total/NA
Pyrene	16000		210	42	ug/Kg	10	☼	8270D	Total/NA
Lead	150		1.4	0.56	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-P5 (3)

Lab Sample ID: 410-56522-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	16		8.6	0.86	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 7550-P5 (3) (Continued)

Lab Sample ID: 410-56522-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.7	J	8.6	1.0	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	18		17	2.4	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.5	J	8.6	0.86	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	8.0	J	8.6	3.5	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	9.0		8.6	0.86	ug/Kg	1	☼	8260C	Total/NA
Anthracene	4600		260	52	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	9400		260	52	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	9100		260	52	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	12000		260	52	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	6600		260	52	ug/Kg	10	☼	8270D	Total/NA
Chrysene	9900		260	52	ug/Kg	10	☼	8270D	Total/NA
Fluorene	1900		260	52	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	16000		260	62	ug/Kg	10	☼	8270D	Total/NA
Pyrene	18000		260	52	ug/Kg	10	☼	8270D	Total/NA
Lead	120		2.2	0.87	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-Center (5)

Lab Sample ID: 410-56522-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	29		9.0	0.90	ug/Kg	1	☼	8260C	Total/NA
Anthracene	25	J	32	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	37		32	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	60		32	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	76		32	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	60		32	6.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	54		32	6.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	14	J	32	6.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	100		32	7.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	81		32	6.3	ug/Kg	1	☼	8270D	Total/NA
Lead	47		2.2	0.88	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP-9

Lab Sample ID: 410-56522-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.1	J	8.2	0.98	ug/Kg	1	☼	8260C	Total/NA
Methyl tertiary butyl ether	23		8.2	0.82	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.2	J	8.2	0.82	ug/Kg	1	☼	8260C	Total/NA
Anthracene	22	J	28	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	54		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	58		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	69		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	62		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	68		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	9.1	J	28	5.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	91		28	6.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	99		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Lead	42		2.0	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-56522-17

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 4847-P5 (3)

Date Collected: 09/23/21 08:50
Date Received: 09/24/21 19:31

Lab Sample ID: 410-56522-1

Matrix: Solid
Percent Solids: 68.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.4	0.67	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
1,2-Dichloroethane	ND		8.4	1.0	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
1,3,5-Trimethylbenzene	ND		8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
Toluene	ND		8.4	1.0	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
Xylenes, Total	ND		17	2.4	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
Methyl tertiary butyl ether	ND		8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
Benzene	ND		8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
Naphthalene	ND		8.4	3.4	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
1,2,4-Trimethylbenzene	ND		8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
Isopropylbenzene	ND		8.4	0.67	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
1,2-Dibromoethane	ND		8.4	0.67	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*09/26/21 09:30*	*09/29/21 18:15*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*09/26/21 09:30*	*09/29/21 18:15*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*09/26/21 09:30*	*09/29/21 18:15*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*09/26/21 09:30*	*09/29/21 18:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Benzo[a]anthracene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Benzo[a]pyrene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Benzo[b]fluoranthene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Benzo[g,h,i]perylene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Chrysene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Fluorene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Phenanthrene	ND		24	5.7	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Pyrene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*09/28/21 09:45*	*09/30/21 01:11*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*09/28/21 09:45*	*09/30/21 01:11*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*09/28/21 09:45*	*09/30/21 01:11*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		1.8	0.71	mg/Kg	☼	09/27/21 08:21	09/27/21 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.4**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 2040-Center (5)

Date Collected: 09/23/21 09:15
Date Received: 09/24/21 19:31

Lab Sample ID: 410-56522-2

Matrix: Solid
Percent Solids: 64.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.4	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
1,2-Dichloroethane	ND		9.4	1.1	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1

Client Sample ID: 2040-Center (5)

Lab Sample ID: 410-56522-2

Date Collected: 09/23/21 09:15
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 64.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		9.4	0.94	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
Toluene	ND		9.4	1.1	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
Xylenes, Total	ND		19	2.6	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
Methyl tertiary butyl ether	ND		9.4	0.94	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
Benzene	ND		9.4	0.94	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
Naphthalene	ND		9.4	3.8	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
1,2,4-Trimethylbenzene	ND		9.4	0.94	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
Isopropylbenzene	ND		9.4	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
1,2-Dibromoethane	ND		9.4	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*54 - 135*	*09/26/21 09:30*	*09/29/21 18:38*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*09/26/21 09:30*	*09/29/21 18:38*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*09/26/21 09:30*	*09/29/21 18:38*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*09/26/21 09:30*	*09/29/21 18:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Benzo[a]anthracene	**17**	**J**	26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Benzo[a]pyrene	**17**	**J**	26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Benzo[b]fluoranthene	**18**	**J**	26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Benzo[g,h,i]perylene	**8.6**	**J**	26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Chrysene	**35**		26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Fluorene	ND		26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Phenanthrene	**17**	**J**	26	6.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Pyrene	**22**	**J**	26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*09/28/21 09:45*	*09/30/21 01:33*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*09/28/21 09:45*	*09/30/21 01:33*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*09/28/21 09:45*	*09/30/21 01:33*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**24**		2.2	0.86	mg/Kg	☼	09/27/21 08:21	09/27/21 18:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**35.1**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 2045-Center (5)

Lab Sample ID: 410-56522-3

Date Collected: 09/23/21 09:30
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 67.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.2	0.65	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
1,2-Dichloroethane	ND		8.2	0.98	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
1,3,5-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
Toluene	ND		8.2	0.98	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1

Client Sample ID: 2045-Center (5)

Lab Sample ID: 410-56522-3

Date Collected: 09/23/21 09:30
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 67.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		16	2.3	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
Methyl tertiary butyl ether	ND		8.2	0.82	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
Benzene	ND		8.2	0.82	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
Naphthalene	ND		8.2	3.3	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
1,2,4-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
Isopropylbenzene	ND		8.2	0.65	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
1,2-Dibromoethane	ND		8.2	0.65	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*54 - 135*	*09/26/21 09:30*	*09/29/21 15:33*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*	*09/26/21 09:30*	*09/29/21 15:33*	*1*
Dibromofluoromethane (Surr)	*26*	*S1-*	*50 - 141*	*09/26/21 09:30*	*09/29/21 15:33*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*09/26/21 09:30*	*09/29/21 15:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Benzo[a]anthracene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Benzo[a]pyrene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Benzo[b]fluoranthene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Benzo[g,h,i]perylene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Chrysene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Fluorene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Phenanthrene	**7.4**	**J**	25	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Pyrene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*09/28/21 09:45*	*09/30/21 01:56*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*09/28/21 09:45*	*09/30/21 01:56*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*09/28/21 09:45*	*09/30/21 01:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**6.7**		1.9	0.74	mg/Kg	☼	09/27/21 08:21	09/30/21 13:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**32.6**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 941-Center (5)

Lab Sample ID: 410-56522-4

Date Collected: 09/23/21 09:50
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 74.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		11	0.90	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
1,2-Dichloroethane	ND		11	1.3	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
1,3,5-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
Toluene	ND		11	1.3	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
Xylenes, Total	ND		22	3.1	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
Methyl tertiary butyl ether	ND		11	1.1	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1

Client Sample ID: 941-Center (5)

Lab Sample ID: 410-56522-4

Date Collected: 09/23/21 09:50
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 74.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		11	1.1	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
Naphthalene	ND		11	4.5	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
1,2,4-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
Isopropylbenzene	ND		11	0.90	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
1,2-Dibromoethane	ND		11	0.90	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*09/26/21 09:30*	*09/28/21 17:31*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*09/26/21 09:30*	*09/28/21 17:31*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*	*09/26/21 09:30*	*09/28/21 17:31*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*09/26/21 09:30*	*09/28/21 17:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**45000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Benzo[a]anthracene	**49000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Benzo[a]pyrene	**35000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Benzo[b]fluoranthene	**38000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Benzo[g,h,i]perylene	**17000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Chrysene	**41000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Fluorene	**24000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Phenanthrene	**150000**		1100	270	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Pyrene	**89000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*39 - 100*	*09/28/21 09:45*	*10/01/21 12:55*	*50*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*	*09/28/21 09:45*	*10/01/21 12:55*	*50*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*09/28/21 09:45*	*10/01/21 12:55*	*50*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**560**		1.9	0.75	mg/Kg	☼	09/27/21 08:21	09/27/21 18:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.5**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-Center (5)

Lab Sample ID: 410-56522-5

Date Collected: 09/23/21 10:24
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 60.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.3	0.58	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
1,2-Dichloroethane	ND		7.3	0.87	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
1,3,5-Trimethylbenzene	**2.3**	**J**	7.3	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
Toluene	ND		7.3	0.87	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
Xylenes, Total	ND		15	2.0	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
Methyl tertiary butyl ether	ND		7.3	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
Benzene	ND		7.3	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
Naphthalene	ND		7.3	2.9	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1

Client Sample ID: 7550-Center (5)

Lab Sample ID: 410-56522-5

Date Collected: 09/23/21 10:24
Date Received: 09/24/21 19:31

Matrix: Solid
Percent Solids: 60.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1.8	J	7.3	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
Isopropylbenzene	ND		7.3	0.58	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
1,2-Dibromoethane	ND		7.3	0.58	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*	*09/26/21 09:30*	*09/28/21 17:54*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*09/26/21 09:30*	*09/28/21 17:54*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*09/26/21 09:30*	*09/28/21 17:54*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*09/26/21 09:30*	*09/28/21 17:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	84		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Benzo[a]anthracene	190		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Benzo[a]pyrene	200		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Benzo[b]fluoranthene	240		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Benzo[g,h,i]perylene	160		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Chrysene	230		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Fluorene	54		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Phenanthrene	320		27	6.5	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Pyrene	410		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*09/28/21 09:45*	*09/30/21 02:41*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*09/28/21 09:45*	*09/30/21 02:41*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*09/28/21 09:45*	*09/30/21 02:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	88		1.9	0.75	mg/Kg	☼	09/27/21 08:21	09/27/21 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	39.2		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P2 (3)

Lab Sample ID: 410-56522-6

Date Collected: 09/23/21 11:10
Date Received: 09/24/21 19:31

Matrix: Solid
Percent Solids: 71.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.0	0.56	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
1,2-Dichloroethane	ND		7.0	0.84	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
1,3,5-Trimethylbenzene	5.8	J	7.0	0.70	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
Toluene	1.3	J	7.0	0.84	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
Xylenes, Total	4.2	J	14	2.0	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
Methyl tertiary butyl ether	ND		7.0	0.70	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
Benzene	1.1	J	7.0	0.70	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
Naphthalene	ND		7.0	2.8	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
1,2,4-Trimethylbenzene	4.8	J	7.0	0.70	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
Isopropylbenzene	ND		7.0	0.56	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1

Client Sample ID: 7550-P2 (3)

Lab Sample ID: 410-56522-6

Date Collected: 09/23/21 11:10
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 71.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		7.0	0.56	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*	*09/26/21 09:30*	*09/28/21 18:16*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*09/26/21 09:30*	*09/28/21 18:16*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*09/26/21 09:30*	*09/28/21 18:16*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*09/26/21 09:30*	*09/28/21 18:16*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**400**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Benzo[a]anthracene	**1700**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Benzo[a]pyrene	**1600**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Benzo[b]fluoranthene	**2100**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Benzo[g,h,i]perylene	**1100**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Chrysene	**1600**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Fluorene	**130**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Phenanthrene	**1300**		23	5.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Pyrene	**2500**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*39 - 100*	*09/28/21 09:45*	*09/30/21 03:04*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*09/28/21 09:45*	*09/30/21 03:04*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*09/28/21 09:45*	*09/30/21 03:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**170**		1.6	0.64	mg/Kg	☼	09/27/21 08:21	09/27/21 18:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.0**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P1 (3)

Lab Sample ID: 410-56522-7

Date Collected: 09/23/21 11:25
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 55.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**5.2**	**J**	9.2	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
1,2-Dichloroethane	ND		9.2	1.1	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
1,3,5-Trimethylbenzene	**230**		9.2	0.92	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
Toluene	**12**		9.2	1.1	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
Xylenes, Total	**99**		18	2.6	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
Methyl tertiary butyl ether	ND		9.2	0.92	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
Benzene	**2.9**	**J**	9.2	0.92	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
Naphthalene	**54**		9.2	3.7	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
1,2,4-Trimethylbenzene	**350**		9.2	0.92	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
Isopropylbenzene	**5.1**	**J**	9.2	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
1,2-Dibromoethane	**0.89**	**J**	9.2	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1

Client Sample ID: 7550-P1 (3)

Lab Sample ID: 410-56522-7

Date Collected: 09/23/21 11:25
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 55.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		54 - 135	09/26/21 09:30	09/28/21 19:24	1
4-Bromofluorobenzene (Surr)	141	S1+	50 - 131	09/26/21 09:30	09/28/21 19:24	1
Dibromofluoromethane (Surr)	104		50 - 141	09/26/21 09:30	09/28/21 19:24	1
Toluene-d8 (Surr)	105		52 - 141	09/26/21 09:30	09/28/21 19:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	230		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Benzo[a]anthracene	970		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Benzo[a]pyrene	1200		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Benzo[b]fluoranthene	1300		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Benzo[g,h,i]perylene	840		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Chrysene	920		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Fluorene	93		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Phenanthrene	780		30	7.1	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Pyrene	1200		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	76		39 - 100	09/28/21 09:45	09/30/21 03:27	1
Nitrobenzene-d5 (Surr)	72		32 - 97	09/28/21 09:45	09/30/21 03:27	1
p-Terphenyl-d14 (Surr)	83		45 - 108	09/28/21 09:45	09/30/21 03:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	690		2.4	0.96	mg/Kg	☼	09/27/21 08:21	09/27/21 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	44.3		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P7 (3)

Lab Sample ID: 410-56522-8

Date Collected: 09/23/21 11:40
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 61.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.5	0.60	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
1,2-Dichloroethane	ND		7.5	0.90	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
1,3,5-Trimethylbenzene	4.1	J	7.5	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
Toluene	2.2	J	7.5	0.90	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
Xylenes, Total	3.7	J	15	2.1	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
Methyl tertiary butyl ether	ND		7.5	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
Benzene	1.9	J	7.5	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
Naphthalene	ND		7.5	3.0	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
1,2,4-Trimethylbenzene	3.9	J	7.5	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
Isopropylbenzene	ND		7.5	0.60	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
1,2-Dibromoethane	ND		7.5	0.60	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		54 - 135	09/26/21 09:30	09/29/21 15:57	1
4-Bromofluorobenzene (Surr)	91		50 - 131	09/26/21 09:30	09/29/21 15:57	1
Dibromofluoromethane (Surr)	105		50 - 141	09/26/21 09:30	09/29/21 15:57	1

Client Sample ID: 7550-P7 (3)

Lab Sample ID: 410-56522-8

Date Collected: 09/23/21 11:40
Date Received: 09/24/21 19:31

Matrix: Solid
Percent Solids: 61.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*94*		*52 - 141*	*09/26/21 09:30*	*09/29/21 15:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**32**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Benzo[a]anthracene	**110**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Benzo[a]pyrene	**120**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Benzo[b]fluoranthene	**140**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Benzo[g,h,i]perylene	**98**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Chrysene	**110**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Fluorene	**15**	**J**	27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Phenanthrene	**170**		27	6.5	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Pyrene	**190**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*09/28/21 09:45*	*09/30/21 03:49*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*09/28/21 09:45*	*09/30/21 03:49*	*1*
p-Terphenyl-d14 (Surr)	*90*		*45 - 108*	*09/28/21 09:45*	*09/30/21 03:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**85**		2.1	0.82	mg/Kg	☼	09/27/21 08:21	09/27/21 18:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**38.6**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P6 (3)

Lab Sample ID: 410-56522-9

Date Collected: 09/23/21 11:55
Date Received: 09/24/21 19:31

Matrix: Solid
Percent Solids: 63.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	0.77	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
1,2-Dichloroethane	ND		9.6	1.2	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
1,3,5-Trimethylbenzene	**3.8**	**J**	9.6	0.96	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
Toluene	**1.7**	**J**	9.6	1.2	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
Xylenes, Total	ND		19	2.7	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
Methyl tertiary butyl ether	ND		9.6	0.96	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
Benzene	**0.98**	**J**	9.6	0.96	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
Naphthalene	**6.2**	**J**	9.6	3.9	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
1,2,4-Trimethylbenzene	**4.3**	**J**	9.6	0.96	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
Isopropylbenzene	ND		9.6	0.77	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
1,2-Dibromoethane	ND		9.6	0.77	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*09/26/21 09:30*	*09/29/21 16:20*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*	*09/26/21 09:30*	*09/29/21 16:20*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*09/26/21 09:30*	*09/29/21 16:20*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*09/26/21 09:30*	*09/29/21 16:20*	*1*

Client Sample ID: 7550-P6 (3)

Lab Sample ID: 410-56522-9

Date Collected: 09/23/21 11:55
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 63.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	230		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Benzo[a]anthracene	680		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Benzo[a]pyrene	480		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Benzo[b]fluoranthene	680		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Benzo[g,h,i]perylene	300		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Chrysene	650		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Fluorene	54		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Phenanthrene	790		26	6.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Pyrene	1500		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*09/28/21 09:45*	*09/30/21 04:12*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*09/28/21 09:45*	*09/30/21 04:12*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*09/28/21 09:45*	*09/30/21 04:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	87		2.2	0.90	mg/Kg	☼	09/27/21 08:21	09/27/21 18:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	36.5		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P3 (3)

Lab Sample ID: 410-56522-10

Date Collected: 09/23/21 12:05
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.2	0.50	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
1,2-Dichloroethane	ND		6.2	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
1,3,5-Trimethylbenzene	ND		6.2	0.62	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
Toluene	0.77	J	6.2	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
Xylenes, Total	ND		12	1.7	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
Methyl tertiary butyl ether	ND		6.2	0.62	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
Benzene	0.74	J	6.2	0.62	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
Naphthalene	ND		6.2	2.5	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
1,2,4-Trimethylbenzene	ND		6.2	0.62	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
Isopropylbenzene	ND		6.2	0.50	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
1,2-Dibromoethane	ND		6.2	0.50	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*09/26/21 09:30*	*09/29/21 19:02*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*09/26/21 09:30*	*09/29/21 19:02*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*09/26/21 09:30*	*09/29/21 19:02*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*09/26/21 09:30*	*09/29/21 19:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	400		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Benzo[a]anthracene	1600		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1

Client Sample ID: 7550-P3 (3)

Lab Sample ID: 410-56522-10

Date Collected: 09/23/21 12:05
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1600		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Benzo[b]fluoranthene	2000		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Benzo[g,h,i]perylene	1100		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Chrysene	1600		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Fluorene	190		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Phenanthrene	1200		21	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Pyrene	2600		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*09/28/21 09:45*	*09/30/21 04:35*	*1*
Nitrobenzene-d5 (Surr)	*70*		*32 - 97*	*09/28/21 09:45*	*09/30/21 04:35*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*09/28/21 09:45*	*09/30/21 04:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	48		1.8	0.72	mg/Kg	☼	09/27/21 08:21	09/27/21 18:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.9		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: UNK-ST-W (3)

Lab Sample ID: 410-56522-11

Date Collected: 09/23/21 12:20
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 60.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.4	0.67	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
1,2-Dichloroethane	ND		8.4	1.0	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
1,3,5-Trimethylbenzene	3.2	J	8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
Toluene	2.1	J	8.4	1.0	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
Xylenes, Total	3.0	J	17	2.3	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
Methyl tertiary butyl ether	ND		8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
Benzene	1.5	J	8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
Naphthalene	ND		8.4	3.4	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
1,2,4-Trimethylbenzene	2.3	J	8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
Isopropylbenzene	ND		8.4	0.67	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
1,2-Dibromoethane	ND		8.4	0.67	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*09/26/21 09:30*	*09/29/21 19:25*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*	*09/26/21 09:30*	*09/29/21 19:25*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*09/26/21 09:30*	*09/29/21 19:25*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*09/26/21 09:30*	*09/29/21 19:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	210		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Benzo[a]anthracene	1000		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Benzo[a]pyrene	770		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Benzo[b]fluoranthene	1100		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1

Client Sample ID: UNK-ST-W (3)

Lab Sample ID: 410-56522-11

Date Collected: 09/23/21 12:20
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 60.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	500		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Chrysene	1100		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Fluorene	54		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Phenanthrene	630		27	6.6	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Pyrene	2500		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*09/28/21 09:45*	*09/30/21 04:58*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*09/28/21 09:45*	*09/30/21 04:58*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*09/28/21 09:45*	*09/30/21 04:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		2.3	0.93	mg/Kg	☼	09/27/21 08:21	09/27/21 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	39.4		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: UNK-ST-E (3)

Lab Sample ID: 410-56522-12

Date Collected: 09/23/21 12:30
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 71.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.1	J	5.8	0.47	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
1,2-Dichloroethane	ND		5.8	0.70	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
1,3,5-Trimethylbenzene	6.9		5.8	0.58	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
Toluene	5.7	J	5.8	0.70	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
Xylenes, Total	11	J	12	1.6	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
Methyl tertiary butyl ether	ND		5.8	0.58	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
Benzene	4.1	J	5.8	0.58	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
Naphthalene	9.0		5.8	2.3	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
1,2,4-Trimethylbenzene	4.9	J	5.8	0.58	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
Isopropylbenzene	ND		5.8	0.47	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
1,2-Dibromoethane	ND		5.8	0.47	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*	*09/26/21 09:30*	*09/29/21 19:48*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*09/26/21 09:30*	*09/29/21 19:48*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*09/26/21 09:30*	*09/29/21 19:48*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*09/26/21 09:30*	*09/29/21 19:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	59		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Benzo[a]anthracene	250		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Benzo[a]pyrene	220		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Benzo[b]fluoranthene	310		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Benzo[g,h,i]perylene	180		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Chrysene	250		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1

Client Sample ID: UNK-ST-E (3)

Lab Sample ID: 410-56522-12

Date Collected: 09/23/21 12:30
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 71.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	28		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Phenanthrene	220		23	5.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Pyrene	410		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*39 - 100*	*09/28/21 09:45*	*09/30/21 05:20*	*1*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*	*09/28/21 09:45*	*09/30/21 05:20*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*09/28/21 09:45*	*09/30/21 05:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	49		1.8	0.73	mg/Kg	☼	09/27/21 08:21	09/27/21 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.6		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P4 (3)

Lab Sample ID: 410-56522-13

Date Collected: 09/23/21 12:40
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		400	32	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
1,2-Dichloroethane	ND		400	48	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
1,3,5-Trimethylbenzene	63	J	400	40	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
Toluene	59	J	400	48	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
Xylenes, Total	180	J	810	110	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
Methyl tertiary butyl ether	ND		400	40	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
Benzene	ND		400	40	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
Naphthalene	260	J	400	160	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
1,2,4-Trimethylbenzene	87	J	400	40	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
Isopropylbenzene	ND		400	32	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
1,2-Dibromoethane	ND		400	32	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*54 - 135*	*09/26/21 10:09*	*10/01/21 13:22*	*50*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*	*09/26/21 10:09*	*10/01/21 13:22*	*50*
Dibromofluoromethane (Surr)	*76*		*50 - 141*	*09/26/21 10:09*	*10/01/21 13:22*	*50*
Toluene-d8 (Surr)	*73*		*52 - 141*	*09/26/21 10:09*	*10/01/21 13:22*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	3400		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Benzo[a]anthracene	8900		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Benzo[a]pyrene	7300		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Benzo[b]fluoranthene	9700		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Benzo[g,h,i]perylene	5000		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Chrysene	8200		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Fluorene	1800		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Phenanthrene	15000		210	51	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10

Client Sample ID: 7550-P4 (3)

Lab Sample ID: 410-56522-13

Date Collected: 09/23/21 12:40
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**16000**		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*39 - 100*	*09/28/21 18:50*	*09/30/21 00:09*	*10*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*	*09/28/21 18:50*	*09/30/21 00:09*	*10*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*09/28/21 18:50*	*09/30/21 00:09*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**150**		1.4	0.56	mg/Kg	☼	09/27/21 08:21	09/27/21 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.9**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P5 (3)

Lab Sample ID: 410-56522-14

Date Collected: 09/23/21 12:50
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 63.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.6	0.69	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
1,2-Dichloroethane	ND		8.6	1.0	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
1,3,5-Trimethylbenzene	**16**		8.6	0.86	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
Toluene	**1.7**	**J**	8.6	1.0	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
Xylenes, Total	**18**		17	2.4	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
Methyl tertiary butyl ether	ND		8.6	0.86	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
Benzene	**2.5**	**J**	8.6	0.86	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
Naphthalene	**8.0**	**J**	8.6	3.5	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
1,2,4-Trimethylbenzene	**9.0**		8.6	0.86	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
Isopropylbenzene	ND		8.6	0.69	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
1,2-Dibromoethane	ND		8.6	0.69	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*	*09/26/21 10:55*	*09/29/21 20:10*	*1*
4-Bromofluorobenzene (Surr)	*85*		*50 - 131*	*09/26/21 10:55*	*09/29/21 20:10*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*09/26/21 10:55*	*09/29/21 20:10*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*09/26/21 10:55*	*09/29/21 20:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**4600**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Benzo[a]anthracene	**9400**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Benzo[a]pyrene	**9100**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Benzo[b]fluoranthene	**12000**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Benzo[g,h,i]perylene	**6600**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Chrysene	**9900**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Fluorene	**1900**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Phenanthrene	**16000**		260	62	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Pyrene	**18000**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10

Client Sample ID: 7550-P5 (3)

Lab Sample ID: 410-56522-14

Date Collected: 09/23/21 12:50
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 63.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*39 - 100*	*09/28/21 18:50*	*09/29/21 18:54*	*10*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*	*09/28/21 18:50*	*09/29/21 18:54*	*10*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*09/28/21 18:50*	*09/29/21 18:54*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**120**		2.2	0.87	mg/Kg	☼	09/27/21 08:21	09/27/21 18:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**36.3**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7551-Center (5)

Lab Sample ID: 410-56522-15

Date Collected: 09/23/21 13:05
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 51.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.0	0.72	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
1,2-Dichloroethane	ND		9.0	1.1	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
1,3,5-Trimethylbenzene	ND		9.0	0.90	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
Toluene	ND		9.0	1.1	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
Xylenes, Total	ND		18	2.5	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
Methyl tertiary butyl ether	**29**		9.0	0.90	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
Benzene	ND		9.0	0.90	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
Naphthalene	ND		9.0	3.6	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
1,2,4-Trimethylbenzene	ND		9.0	0.90	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
Isopropylbenzene	ND		9.0	0.72	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
1,2-Dibromoethane	ND		9.0	0.72	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*09/26/21 10:55*	*09/28/21 18:39*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*09/26/21 10:55*	*09/28/21 18:39*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*09/26/21 10:55*	*09/28/21 18:39*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*09/26/21 10:55*	*09/28/21 18:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**25**	**J**	32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Benzo[a]anthracene	**37**		32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Benzo[a]pyrene	**60**		32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Benzo[b]fluoranthene	**76**		32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Benzo[g,h,i]perylene	**60**		32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Chrysene	**54**		32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Fluorene	**14**	**J**	32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Phenanthrene	**100**		32	7.6	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Pyrene	**81**		32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*09/28/21 18:50*	*09/29/21 19:17*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*09/28/21 18:50*	*09/29/21 19:17*	*1*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*	*09/28/21 18:50*	*09/29/21 19:17*	*1*

Client Sample ID: 7551-Center (5)

Lab Sample ID: 410-56522-15
Date Collected: 09/23/21 13:05
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 51.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**47**		2.2	0.88	mg/Kg	☼	09/27/21 08:21	09/27/21 18:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**48.1**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: DUP-9

Lab Sample ID: 410-56522-16
Date Collected: 09/23/21 00:00
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 58.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.2	0.66	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
1,2-Dichloroethane	ND		8.2	0.98	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
1,3,5-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
Toluene	**1.1**	**J**	8.2	0.98	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
Xylenes, Total	ND		16	2.3	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
Methyl tertiary butyl ether	**23**		8.2	0.82	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
Benzene	**1.2**	**J**	8.2	0.82	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
Naphthalene	ND		8.2	3.3	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
1,2,4-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
Isopropylbenzene	ND		8.2	0.66	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
1,2-Dibromoethane	ND		8.2	0.66	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*	*09/26/21 10:55*	*09/28/21 19:02*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*09/26/21 10:55*	*09/28/21 19:02*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*09/26/21 10:55*	*09/28/21 19:02*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*09/26/21 10:55*	*09/28/21 19:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**22**	**J**	28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Benzo[a]anthracene	**54**		28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Benzo[a]pyrene	**58**		28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Benzo[b]fluoranthene	**69**		28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Benzo[g,h,i]perylene	**62**		28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Chrysene	**68**		28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Fluorene	**9.1**	**J**	28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Phenanthrene	**91**		28	6.8	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Pyrene	**99**		28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*	*09/28/21 18:50*	*09/30/21 00:33*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*09/28/21 18:50*	*09/30/21 00:33*	*1*
p-Terphenyl-d14 (Surr)	*113*	*S1+*	*45 - 108*	*09/28/21 18:50*	*09/30/21 00:33*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**42**		2.0	0.78	mg/Kg	☼	09/27/21 08:21	09/27/21 19:04	1

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Client Sample ID: DUP-9

Lab Sample ID: 410-56522-16

Date Collected: 09/23/21 00:00
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 58.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	41.7		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-56522-17

Date Collected: 09/23/21 00:00
Matrix: Water
Date Received: 09/24/21 19:31

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			09/29/21 21:00	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/29/21 21:00	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/29/21 21:00	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			09/29/21 21:00	1
Toluene	ND		1.0	0.30	ug/L			09/29/21 21:00	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/29/21 21:00	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/29/21 21:00	1
Benzene	ND		1.0	0.30	ug/L			09/29/21 21:00	1
Naphthalene	ND		5.0	1.0	ug/L			09/29/21 21:00	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			09/29/21 21:00	1
Isopropylbenzene	ND		5.0	0.30	ug/L			09/29/21 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/29/21 21:00*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/29/21 21:00*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/29/21 21:00*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/29/21 21:00*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-56522-1	4847-P5 (3)	104	87	106	95
410-56522-2	2040-Center (5)	115	89	105	94
410-56522-3	2045-Center (5)	109	90	26 S1-	95
410-56522-4	941-Center (5)	107	89	108	98
410-56522-5	7550-Center (5)	105	94	105	96
410-56522-6	7550-P2 (3)	106	96	103	94
410-56522-7	7550-P1 (3)	102	141 S1+	104	105
410-56522-8	7550-P7 (3)	110	91	105	94
410-56522-9	7550-P6 (3)	111	90	106	94
410-56522-10	7550-P3 (3)	114	89	103	93
410-56522-11	UNK-ST-W (3)	107	90	106	95
410-56522-12	UNK-ST-E (3)	108	88	103	96
410-56522-13	7550-P4 (3)	79	97	76	73
410-56522-14	7550-P5 (3)	105	85	103	96
410-56522-15	7551-Center (5)	107	95	105	93
410-56522-16	DUP-9	103	95	105	95
LCS 410-176078/4	Lab Control Sample	102	100	104	97
LCS 410-176614/4	Lab Control Sample	102	92	103	96
LCS 410-177596/4	Lab Control Sample	99	94	98	93
LCSD 410-176078/5	Lab Control Sample Dup	100	99	102	96
LCSD 410-176614/5	Lab Control Sample Dup	103	92	102	95
LCSD 410-177596/5	Lab Control Sample Dup	100	95	99	94
MB 410-176078/7	Method Blank	104	96	103	94
MB 410-176614/7	Method Blank	106	90	103	95
MB 410-177596/7	Method Blank	101	94	98	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-56522-17	Trip Blank	101	100	96	103
LCS 410-176910/4	Lab Control Sample	102	102	96	102
LCSD 410-176910/5	Lab Control Sample Dup	102	101	95	101
MB 410-176910/6	Method Blank	101	99	95	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 410-56522-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)						
410-56522-1	4847-P5 (3)	81	76	86						
410-56522-2	2040-Center (5)	80	69	83						
410-56522-3	2045-Center (5)	80	72	85						
410-56522-4	941-Center (5)	69	61	87						
410-56522-5	7550-Center (5)	81	74	83						
410-56522-6	7550-P2 (3)	70	63	76						
410-56522-7	7550-P1 (3)	76	72	83						
410-56522-8	7550-P7 (3)	84	76	90						
410-56522-9	7550-P6 (3)	74	67	84						
410-56522-10	7550-P3 (3)	79	70	85						
410-56522-11	UNK-ST-W (3)	79	68	80						
410-56522-12	UNK-ST-E (3)	71	60	80						
410-56522-13	7550-P4 (3)	69	60	86						
410-56522-14	7550-P5 (3)	67	61	79						
410-56522-15	7551-Center (5)	74	67	92						
410-56522-16	DUP-9	87	69	113 S1+						
LCS 410-176060/2-A	Lab Control Sample	89	73	88						
LCS 410-176384/2-A	Lab Control Sample	91	85	100						
MB 410-176060/1-A	Method Blank	73	69	82						
MB 410-176384/1-A	Method Blank	90	86	104						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-176078/7
Matrix: Solid
Analysis Batch: 176078

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/28/21 11:30	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/28/21 11:30	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/28/21 11:30	1
Toluene	ND		5.0	0.60	ug/Kg			09/28/21 11:30	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/28/21 11:30	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			09/28/21 11:30	1
Benzene	ND		5.0	0.50	ug/Kg			09/28/21 11:30	1
Naphthalene	ND		5.0	2.0	ug/Kg			09/28/21 11:30	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/28/21 11:30	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			09/28/21 11:30	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/28/21 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*09/28/21 11:30*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*		*09/28/21 11:30*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*		*09/28/21 11:30*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*		*09/28/21 11:30*	*1*

Lab Sample ID: LCS 410-176078/4
Matrix: Solid
Analysis Batch: 176078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	19.2		ug/Kg		96	78 - 120
1,2-Dichloroethane	20.0	20.9		ug/Kg		104	71 - 128
1,3,5-Trimethylbenzene	20.0	18.6		ug/Kg		93	73 - 120
Toluene	20.0	18.0		ug/Kg		90	80 - 120
Xylenes, Total	60.0	57.4		ug/Kg		96	75 - 120
Methyl tertiary butyl ether	20.0	18.4		ug/Kg		92	72 - 120
Benzene	20.0	18.7		ug/Kg		93	80 - 120
Naphthalene	20.0	17.4		ug/Kg		87	48 - 130
1,2,4-Trimethylbenzene	20.0	18.6		ug/Kg		93	73 - 120
Isopropylbenzene	20.0	19.7		ug/Kg		98	77 - 120
1,2-Dibromoethane	20.0	19.0		ug/Kg		95	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*100*		*50 - 131*
Dibromofluoromethane (Surr)	*104*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: LCSD 410-176078/5
Matrix: Solid
Analysis Batch: 176078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	19.3		ug/Kg		96	78 - 120	1	30
1,2-Dichloroethane	20.0	19.9		ug/Kg		99	71 - 128	5	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-176078/5
Matrix: Solid
Analysis Batch: 176078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	18.6		ug/Kg		93	73 - 120	0	30
Toluene			20.0	18.0		ug/Kg		90	80 - 120	0	30
Xylenes, Total			60.0	56.9		ug/Kg		95	75 - 120	1	30
Methyl tertiary butyl ether			20.0	17.7		ug/Kg		89	72 - 120	4	30
Benzene			20.0	18.5		ug/Kg		92	80 - 120	1	30
Naphthalene			20.0	16.3		ug/Kg		82	48 - 130	7	30
1,2,4-Trimethylbenzene			20.0	18.6		ug/Kg		93	73 - 120	0	30
Isopropylbenzene			20.0	19.7		ug/Kg		98	77 - 120	0	30
1,2-Dibromoethane			20.0	18.5		ug/Kg		92	76 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*99*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*96*		*52 - 141*

Lab Sample ID: MB 410-176614/7
Matrix: Solid
Analysis Batch: 176614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/29/21 11:44	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/29/21 11:44	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/29/21 11:44	1
Toluene	ND		5.0	0.60	ug/Kg			09/29/21 11:44	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/29/21 11:44	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			09/29/21 11:44	1
Benzene	ND		5.0	0.50	ug/Kg			09/29/21 11:44	1
Naphthalene	ND		5.0	2.0	ug/Kg			09/29/21 11:44	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/29/21 11:44	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			09/29/21 11:44	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/29/21 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*		*09/29/21 11:44*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*		*09/29/21 11:44*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*		*09/29/21 11:44*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*		*09/29/21 11:44*	*1*

Lab Sample ID: LCS 410-176614/4
Matrix: Solid
Analysis Batch: 176614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			20.0	18.2		ug/Kg		91	78 - 120
1,2-Dichloroethane			20.0	19.9		ug/Kg		100	71 - 128
1,3,5-Trimethylbenzene			20.0	17.4		ug/Kg		87	73 - 120
Toluene			20.0	17.9		ug/Kg		90	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-176614/4
Matrix: Solid
Analysis Batch: 176614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			60.0	56.4		ug/Kg		94	75 - 120		
Methyl tertiary butyl ether			20.0	18.5		ug/Kg		92	72 - 120		
Benzene			20.0	18.7		ug/Kg		94	80 - 120		
Naphthalene			20.0	17.1		ug/Kg		86	48 - 130		
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		89	73 - 120		
Isopropylbenzene			20.0	18.5		ug/Kg		93	77 - 120		
1,2-Dibromoethane			20.0	19.5		ug/Kg		98	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*
Dibromofluoromethane (Surr)	*103*		*50 - 141*
Toluene-d8 (Surr)	*96*		*52 - 141*

Lab Sample ID: LCSD 410-176614/5
Matrix: Solid
Analysis Batch: 176614

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.0		ug/Kg		90	78 - 120	1	30
1,2-Dichloroethane			20.0	20.5		ug/Kg		102	71 - 128	3	30
1,3,5-Trimethylbenzene			20.0	17.5		ug/Kg		87	73 - 120	0	30
Toluene			20.0	18.0		ug/Kg		90	80 - 120	1	30
Xylenes, Total			60.0	56.1		ug/Kg		94	75 - 120	1	30
Methyl tertiary butyl ether			20.0	18.6		ug/Kg		93	72 - 120	1	30
Benzene			20.0	18.9		ug/Kg		94	80 - 120	1	30
Naphthalene			20.0	17.1		ug/Kg		85	48 - 130	0	30
1,2,4-Trimethylbenzene			20.0	17.8		ug/Kg		89	73 - 120	1	30
Isopropylbenzene			20.0	18.5		ug/Kg		92	77 - 120	0	30
1,2-Dibromoethane			20.0	19.8		ug/Kg		99	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*95*		*52 - 141*

Lab Sample ID: MB 410-177596/7
Matrix: Solid
Analysis Batch: 177596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			10/01/21 11:51	50
1,2-Dichloroethane	ND		250	30	ug/Kg			10/01/21 11:51	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			10/01/21 11:51	50
Toluene	ND		250	30	ug/Kg			10/01/21 11:51	50
Xylenes, Total	ND		500	70	ug/Kg			10/01/21 11:51	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			10/01/21 11:51	50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-177596/7
Matrix: Solid
Analysis Batch: 177596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		250	25	ug/Kg			10/01/21 11:51	50
Naphthalene	ND		250	100	ug/Kg			10/01/21 11:51	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			10/01/21 11:51	50
Isopropylbenzene	ND		250	20	ug/Kg			10/01/21 11:51	50
1,2-Dibromoethane	ND		250	20	ug/Kg			10/01/21 11:51	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*		*10/01/21 11:51*	*50*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*		*10/01/21 11:51*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*10/01/21 11:51*	*50*
Toluene-d8 (Surr)	*94*		*52 - 141*		*10/01/21 11:51*	*50*

Lab Sample ID: LCS 410-177596/4
Matrix: Solid
Analysis Batch: 177596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	984		ug/Kg		98	78 - 120		
1,2-Dichloroethane			1000	1050		ug/Kg		105	71 - 128		
1,3,5-Trimethylbenzene			1000	967		ug/Kg		97	73 - 120		
Toluene			1000	984		ug/Kg		98	80 - 120		
Xylenes, Total			3000	2950		ug/Kg		98	75 - 120		
Methyl tertiary butyl ether			1000	1010		ug/Kg		101	72 - 120		
Benzene			1000	1040		ug/Kg		104	80 - 120		
Naphthalene			1000	951		ug/Kg		95	48 - 130		
1,2,4-Trimethylbenzene			1000	973		ug/Kg		97	73 - 120		
Isopropylbenzene			1000	1020		ug/Kg		102	77 - 120		
1,2-Dibromoethane			1000	1000		ug/Kg		100	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*98*		*50 - 141*
Toluene-d8 (Surr)	*93*		*52 - 141*

Lab Sample ID: LCSD 410-177596/5
Matrix: Solid
Analysis Batch: 177596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	993		ug/Kg		99	78 - 120	1	30
1,2-Dichloroethane			1000	1070		ug/Kg		107	71 - 128	2	30
1,3,5-Trimethylbenzene			1000	980		ug/Kg		98	73 - 120	1	30
Toluene			1000	996		ug/Kg		100	80 - 120	1	30
Xylenes, Total			3000	2990		ug/Kg		100	75 - 120	2	30
Methyl tertiary butyl ether			1000	1030		ug/Kg		103	72 - 120	1	30
Benzene			1000	1050		ug/Kg		105	80 - 120	1	30
Naphthalene			1000	1010		ug/Kg		101	48 - 130	6	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-177596/5
Matrix: Solid
Analysis Batch: 177596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			1000	983		ug/Kg		98	73 - 120	1	30
Isopropylbenzene			1000	1030		ug/Kg		103	77 - 120	1	30
1,2-Dibromoethane			1000	1000		ug/Kg		100	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*94*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-176910/6
Matrix: Water
Analysis Batch: 176910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			09/29/21 20:08	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/29/21 20:08	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/29/21 20:08	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			09/29/21 20:08	1
Toluene	ND		1.0	0.30	ug/L			09/29/21 20:08	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/29/21 20:08	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/29/21 20:08	1
Benzene	ND		1.0	0.30	ug/L			09/29/21 20:08	1
Naphthalene	ND		5.0	1.0	ug/L			09/29/21 20:08	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			09/29/21 20:08	1
Isopropylbenzene	ND		5.0	0.30	ug/L			09/29/21 20:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/29/21 20:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/29/21 20:08*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*09/29/21 20:08*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/29/21 20:08*	*1*

Lab Sample ID: LCS 410-176910/4
Matrix: Water
Analysis Batch: 176910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	20.1		ug/L		101	77 - 120		
Ethylbenzene			20.0	23.8		ug/L		119	80 - 120		
1,2-Dichloroethane			20.0	20.1		ug/L		101	73 - 124		
1,3,5-Trimethylbenzene			20.0	23.3		ug/L		117	75 - 120		
Toluene			20.0	21.1		ug/L		106	80 - 120		
Xylenes, Total			60.0	62.6		ug/L		104	80 - 120		
Methyl tertiary butyl ether			20.0	20.5		ug/L		102	69 - 122		
Benzene			20.0	21.9		ug/L		109	80 - 120		

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-176910/4
Matrix: Water
Analysis Batch: 176910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			20.0	21.6		ug/L		108	53 - 124		
1,2,4-Trimethylbenzene			20.0	23.3		ug/L		116	75 - 120		
Isopropylbenzene			20.0	20.5		ug/L		103	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 410-176910/5
Matrix: Water
Analysis Batch: 176910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	19.7		ug/L		98	77 - 120	2	30
Ethylbenzene			20.0	22.5		ug/L		112	80 - 120	6	30
1,2-Dichloroethane			20.0	19.9		ug/L		100	73 - 124	1	30
1,3,5-Trimethylbenzene			20.0	21.8		ug/L		109	75 - 120	7	30
Toluene			20.0	19.9		ug/L		100	80 - 120	6	30
Xylenes, Total			60.0	59.6		ug/L		99	80 - 120	5	30
Methyl tertiary butyl ether			20.0	20.4		ug/L		102	69 - 122	0	30
Benzene			20.0	20.7		ug/L		104	80 - 120	5	30
Naphthalene			20.0	20.8		ug/L		104	53 - 124	4	30
1,2,4-Trimethylbenzene			20.0	22.0		ug/L		110	75 - 120	6	30
Isopropylbenzene			20.0	19.3		ug/L		97	80 - 120	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-176060/1-A
Matrix: Solid
Analysis Batch: 176968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Chrysene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Fluorene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Phenanthrene	ND		17	4.0	ug/Kg		09/28/21 09:45	09/29/21 22:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-176060/1-A
Matrix: Solid
Analysis Batch: 176968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*	*09/28/21 09:45*	*09/29/21 22:54*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*09/28/21 09:45*	*09/29/21 22:54*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*09/28/21 09:45*	*09/29/21 22:54*	*1*

Lab Sample ID: LCS 410-176060/2-A
Matrix: Solid
Analysis Batch: 176968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1390		ug/Kg		84	75 - 120
Benzo[a]anthracene	1670	1490		ug/Kg		89	73 - 120
Benzo[a]pyrene	1670	1460		ug/Kg		88	80 - 123
Benzo[b]fluoranthene	1670	1470		ug/Kg		88	63 - 120
Benzo[g,h,i]perylene	1670	1330		ug/Kg		80	77 - 120
Chrysene	1670	1480		ug/Kg		89	66 - 120
Fluorene	1670	1420		ug/Kg		85	68 - 120
Phenanthrene	1670	1360		ug/Kg		81	74 - 120
Pyrene	1670	1450		ug/Kg		87	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*

Lab Sample ID: MB 410-176384/1-A
Matrix: Solid
Analysis Batch: 176610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Chrysene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Fluorene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Phenanthrene	ND		17	4.0	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Pyrene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*39 - 100*	*09/28/21 18:50*	*09/29/21 13:45*	*1*
Nitrobenzene-d5 (Surr)	*86*		*32 - 97*	*09/28/21 18:50*	*09/29/21 13:45*	*1*
p-Terphenyl-d14 (Surr)	*104*		*45 - 108*	*09/28/21 18:50*	*09/29/21 13:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-176384/2-A
Matrix: Solid
Analysis Batch: 176610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176384

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Anthracene			1670	1620		ug/Kg		97	75 - 120		
Benzo[a]anthracene			1670	1640		ug/Kg		98	73 - 120		
Benzo[a]pyrene			1670	1700		ug/Kg		102	80 - 123		
Benzo[b]fluoranthene			1670	1560		ug/Kg		94	63 - 120		
Benzo[g,h,i]perylene			1670	1760		ug/Kg		106	77 - 120		
Chrysene			1670	1450		ug/Kg		87	66 - 120		
Fluorene			1670	1520		ug/Kg		91	68 - 120		
Phenanthrene			1670	1530		ug/Kg		92	74 - 120		
Pyrene			1670	1470		ug/Kg		88	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*
Nitrobenzene-d5 (Surr)	*85*		*32 - 97*
p-Terphenyl-d14 (Surr)	*100*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-175606/1-A
Matrix: Solid
Analysis Batch: 175938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 175606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		09/27/21 08:21	09/27/21 17:48	1

Lab Sample ID: LCS 410-175606/2-A
Matrix: Solid
Analysis Batch: 175938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 175606

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			5.00	5.44		mg/Kg		109	80 - 120		

Lab Sample ID: 410-56522-7 MS
Matrix: Solid
Analysis Batch: 175938

Client Sample ID: 7550-P1 (3)
Prep Type: Total/NA
Prep Batch: 175606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	690		8.31	490	4	mg/Kg	☼	-2444	75 - 125		

Lab Sample ID: 410-56522-7 MSD
Matrix: Solid
Analysis Batch: 175938

Client Sample ID: 7550-P1 (3)
Prep Type: Total/NA
Prep Batch: 175606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	690		6.91	435	4	mg/Kg	☼	-3727	75 - 125	12	20

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-56522-7 DU
Matrix: Solid
Analysis Batch: 175938

Client Sample ID: 7550-P1 (3)
Prep Type: Total/NA
Prep Batch: 175606

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	690			690		mg/Kg	☼			0.4	20

GC/MS VOA

Prep Batch: 175442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-13	7550-P4 (3)	Total/NA	Solid	5035	

Prep Batch: 175443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	5035	
410-56522-2	2040-Center (5)	Total/NA	Solid	5035	
410-56522-3 - RA	2045-Center (5)	Total/NA	Solid	5035	
410-56522-3	2045-Center (5)	Total/NA	Solid	5035	
410-56522-4	941-Center (5)	Total/NA	Solid	5035	
410-56522-5	7550-Center (5)	Total/NA	Solid	5035	
410-56522-6	7550-P2 (3)	Total/NA	Solid	5035	
410-56522-7	7550-P1 (3)	Total/NA	Solid	5035	
410-56522-8	7550-P7 (3)	Total/NA	Solid	5035	
410-56522-9	7550-P6 (3)	Total/NA	Solid	5035	
410-56522-10	7550-P3 (3)	Total/NA	Solid	5035	
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	5035	
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	5035	
410-56522-14	7550-P5 (3)	Total/NA	Solid	5035	
410-56522-15	7551-Center (5)	Total/NA	Solid	5035	
410-56522-16	DUP-9	Total/NA	Solid	5035	

Analysis Batch: 176078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-4	941-Center (5)	Total/NA	Solid	8260C	175443
410-56522-5	7550-Center (5)	Total/NA	Solid	8260C	175443
410-56522-6	7550-P2 (3)	Total/NA	Solid	8260C	175443
410-56522-7	7550-P1 (3)	Total/NA	Solid	8260C	175443
410-56522-15	7551-Center (5)	Total/NA	Solid	8260C	175443
410-56522-16	DUP-9	Total/NA	Solid	8260C	175443
MB 410-176078/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-176078/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-176078/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 176614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	8260C	175443
410-56522-2	2040-Center (5)	Total/NA	Solid	8260C	175443
410-56522-3	2045-Center (5)	Total/NA	Solid	8260C	175443
410-56522-8	7550-P7 (3)	Total/NA	Solid	8260C	175443
410-56522-9	7550-P6 (3)	Total/NA	Solid	8260C	175443
410-56522-10	7550-P3 (3)	Total/NA	Solid	8260C	175443
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	8260C	175443
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	8260C	175443
410-56522-14	7550-P5 (3)	Total/NA	Solid	8260C	175443
MB 410-176614/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-176614/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-176614/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 176910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-17	Trip Blank	Total/NA	Water	8260C/UST	

GC/MS VOA (Continued)

Analysis Batch: 176910 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-176910/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-176910/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-176910/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Analysis Batch: 177141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-3 - RA	2045-Center (5)	Total/NA	Solid	8260C	175443
MB 410-177141/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-177141/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-177141/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 177596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-13	7550-P4 (3)	Total/NA	Solid	8260C	175442
MB 410-177596/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-177596/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-177596/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 176060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	3546	
410-56522-2	2040-Center (5)	Total/NA	Solid	3546	
410-56522-3	2045-Center (5)	Total/NA	Solid	3546	
410-56522-4	941-Center (5)	Total/NA	Solid	3546	
410-56522-5	7550-Center (5)	Total/NA	Solid	3546	
410-56522-6	7550-P2 (3)	Total/NA	Solid	3546	
410-56522-7	7550-P1 (3)	Total/NA	Solid	3546	
410-56522-8	7550-P7 (3)	Total/NA	Solid	3546	
410-56522-9	7550-P6 (3)	Total/NA	Solid	3546	
410-56522-10	7550-P3 (3)	Total/NA	Solid	3546	
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	3546	
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	3546	
MB 410-176060/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-176060/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 176384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-13	7550-P4 (3)	Total/NA	Solid	3546	
410-56522-14	7550-P5 (3)	Total/NA	Solid	3546	
410-56522-15	7551-Center (5)	Total/NA	Solid	3546	
410-56522-16	DUP-9	Total/NA	Solid	3546	
MB 410-176384/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-176384/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 176610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-176384/1-A	Method Blank	Total/NA	Solid	8270D	176384
LCS 410-176384/2-A	Lab Control Sample	Total/NA	Solid	8270D	176384

GC/MS Semi VOA

Analysis Batch: 176621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-14	7550-P5 (3)	Total/NA	Solid	8270D	176384
410-56522-15	7551-Center (5)	Total/NA	Solid	8270D	176384

Analysis Batch: 176968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	8270D	176060
410-56522-2	2040-Center (5)	Total/NA	Solid	8270D	176060
410-56522-3	2045-Center (5)	Total/NA	Solid	8270D	176060
410-56522-5	7550-Center (5)	Total/NA	Solid	8270D	176060
410-56522-6	7550-P2 (3)	Total/NA	Solid	8270D	176060
410-56522-7	7550-P1 (3)	Total/NA	Solid	8270D	176060
410-56522-8	7550-P7 (3)	Total/NA	Solid	8270D	176060
410-56522-9	7550-P6 (3)	Total/NA	Solid	8270D	176060
410-56522-10	7550-P3 (3)	Total/NA	Solid	8270D	176060
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	8270D	176060
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	8270D	176060
MB 410-176060/1-A	Method Blank	Total/NA	Solid	8270D	176060
LCS 410-176060/2-A	Lab Control Sample	Total/NA	Solid	8270D	176060

Analysis Batch: 176974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-13	7550-P4 (3)	Total/NA	Solid	8270D	176384
410-56522-16	DUP-9	Total/NA	Solid	8270D	176384

Analysis Batch: 177593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-4	941-Center (5)	Total/NA	Solid	8270D	176060

Metals

Prep Batch: 175606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	3050B	
410-56522-2	2040-Center (5)	Total/NA	Solid	3050B	
410-56522-3	2045-Center (5)	Total/NA	Solid	3050B	
410-56522-4	941-Center (5)	Total/NA	Solid	3050B	
410-56522-5	7550-Center (5)	Total/NA	Solid	3050B	
410-56522-6	7550-P2 (3)	Total/NA	Solid	3050B	
410-56522-7	7550-P1 (3)	Total/NA	Solid	3050B	
410-56522-8	7550-P7 (3)	Total/NA	Solid	3050B	
410-56522-9	7550-P6 (3)	Total/NA	Solid	3050B	
410-56522-10	7550-P3 (3)	Total/NA	Solid	3050B	
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	3050B	
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	3050B	
410-56522-13	7550-P4 (3)	Total/NA	Solid	3050B	
410-56522-14	7550-P5 (3)	Total/NA	Solid	3050B	
410-56522-15	7551-Center (5)	Total/NA	Solid	3050B	
410-56522-16	DUP-9	Total/NA	Solid	3050B	
MB 410-175606/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-175606/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-56522-7 MS	7550-P1 (3)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 175606 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-7 MSD	7550-P1 (3)	Total/NA	Solid	3050B	
410-56522-7 DU	7550-P1 (3)	Total/NA	Solid	3050B	

Analysis Batch: 175938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	6010C	175606
410-56522-2	2040-Center (5)	Total/NA	Solid	6010C	175606
410-56522-4	941-Center (5)	Total/NA	Solid	6010C	175606
410-56522-5	7550-Center (5)	Total/NA	Solid	6010C	175606
410-56522-6	7550-P2 (3)	Total/NA	Solid	6010C	175606
410-56522-7	7550-P1 (3)	Total/NA	Solid	6010C	175606
410-56522-8	7550-P7 (3)	Total/NA	Solid	6010C	175606
410-56522-9	7550-P6 (3)	Total/NA	Solid	6010C	175606
410-56522-10	7550-P3 (3)	Total/NA	Solid	6010C	175606
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	6010C	175606
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	6010C	175606
410-56522-13	7550-P4 (3)	Total/NA	Solid	6010C	175606
410-56522-14	7550-P5 (3)	Total/NA	Solid	6010C	175606
410-56522-15	7551-Center (5)	Total/NA	Solid	6010C	175606
410-56522-16	DUP-9	Total/NA	Solid	6010C	175606
MB 410-175606/1-A	Method Blank	Total/NA	Solid	6010C	175606
LCS 410-175606/2-A	Lab Control Sample	Total/NA	Solid	6010C	175606
410-56522-7 MS	7550-P1 (3)	Total/NA	Solid	6010C	175606
410-56522-7 MSD	7550-P1 (3)	Total/NA	Solid	6010C	175606
410-56522-7 DU	7550-P1 (3)	Total/NA	Solid	6010C	175606

Analysis Batch: 177354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-3	2045-Center (5)	Total/NA	Solid	6010C	175606

General Chemistry

Analysis Batch: 175542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	Moisture	
410-56522-2	2040-Center (5)	Total/NA	Solid	Moisture	
410-56522-3	2045-Center (5)	Total/NA	Solid	Moisture	
410-56522-4	941-Center (5)	Total/NA	Solid	Moisture	
410-56522-5	7550-Center (5)	Total/NA	Solid	Moisture	
410-56522-6	7550-P2 (3)	Total/NA	Solid	Moisture	
410-56522-7	7550-P1 (3)	Total/NA	Solid	Moisture	
410-56522-8	7550-P7 (3)	Total/NA	Solid	Moisture	
410-56522-9	7550-P6 (3)	Total/NA	Solid	Moisture	
410-56522-10	7550-P3 (3)	Total/NA	Solid	Moisture	
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	Moisture	
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	Moisture	
410-56522-13	7550-P4 (3)	Total/NA	Solid	Moisture	
410-56522-14	7550-P5 (3)	Total/NA	Solid	Moisture	
410-56522-15	7551-Center (5)	Total/NA	Solid	Moisture	
410-56522-16	DUP-9	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Client Sample ID: 4847-P5 (3)

Lab Sample ID: 410-56522-1

Date Collected: 09/23/21 08:50

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 4847-P5 (3)

Lab Sample ID: 410-56522-1

Date Collected: 09/23/21 08:50

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 68.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 18:15	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 01:11	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:15	XQY5	ELLE

Client Sample ID: 2040-Center (5)

Lab Sample ID: 410-56522-2

Date Collected: 09/23/21 09:15

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 2040-Center (5)

Lab Sample ID: 410-56522-2

Date Collected: 09/23/21 09:15

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 64.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 18:38	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 01:33	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:18	XQY5	ELLE

Client Sample ID: 2045-Center (5)

Lab Sample ID: 410-56522-3

Date Collected: 09/23/21 09:30

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 2045-Center (5)

Lab Sample ID: 410-56522-3

Date Collected: 09/23/21 09:30

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 67.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 15:33	USEJ	ELLE
Total/NA	Prep	5035	RA		175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	177141	09/30/21 17:05	ULCP	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 01:56	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	177354	09/30/21 13:17	WJM9	ELLE

Client Sample ID: 941-Center (5)

Lab Sample ID: 410-56522-4

Date Collected: 09/23/21 09:50

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 941-Center (5)

Lab Sample ID: 410-56522-4

Date Collected: 09/23/21 09:50

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176078	09/28/21 17:31	ULCP	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		50	177593	10/01/21 12:55	ULM3	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:23	XQY5	ELLE

Client Sample ID: 7550-Center (5)

Lab Sample ID: 410-56522-5

Date Collected: 09/23/21 10:24

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-Center (5)

Lab Sample ID: 410-56522-5

Date Collected: 09/23/21 10:24

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 60.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176078	09/28/21 17:54	ULCP	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 02:41	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:31	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Client Sample ID: 7550-P2 (3)

Lab Sample ID: 410-56522-6

Date Collected: 09/23/21 11:10

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P2 (3)

Lab Sample ID: 410-56522-6

Date Collected: 09/23/21 11:10

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 71.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176078	09/28/21 18:16	ULCP	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 03:04	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:34	XQY5	ELLE

Client Sample ID: 7550-P1 (3)

Lab Sample ID: 410-56522-7

Date Collected: 09/23/21 11:25

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P1 (3)

Lab Sample ID: 410-56522-7

Date Collected: 09/23/21 11:25

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 55.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176078	09/28/21 19:24	ULCP	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 03:27	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 17:58	XQY5	ELLE

Client Sample ID: 7550-P7 (3)

Lab Sample ID: 410-56522-8

Date Collected: 09/23/21 11:40

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P7 (3)

Lab Sample ID: 410-56522-8

Date Collected: 09/23/21 11:40

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 61.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 15:57	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 03:49	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:37	XQY5	ELLE

Client Sample ID: 7550-P6 (3)

Lab Sample ID: 410-56522-9

Date Collected: 09/23/21 11:55

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P6 (3)

Lab Sample ID: 410-56522-9

Date Collected: 09/23/21 11:55

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 63.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 16:20	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 04:12	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:39	XQY5	ELLE

Client Sample ID: 7550-P3 (3)

Lab Sample ID: 410-56522-10

Date Collected: 09/23/21 12:05

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P3 (3)

Lab Sample ID: 410-56522-10

Date Collected: 09/23/21 12:05

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 19:02	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 04:35	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:42	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Client Sample ID: UNK-ST-W (3)

Lab Sample ID: 410-56522-11

Date Collected: 09/23/21 12:20
Date Received: 09/24/21 19:31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: UNK-ST-W (3)

Lab Sample ID: 410-56522-11

Date Collected: 09/23/21 12:20
Date Received: 09/24/21 19:31

Matrix: Solid
Percent Solids: 60.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 19:25	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 04:58	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:45	XQY5	ELLE

Client Sample ID: UNK-ST-E (3)

Lab Sample ID: 410-56522-12

Date Collected: 09/23/21 12:30
Date Received: 09/24/21 19:31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: UNK-ST-E (3)

Lab Sample ID: 410-56522-12

Date Collected: 09/23/21 12:30
Date Received: 09/24/21 19:31

Matrix: Solid
Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 19:48	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 05:20	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:48	XQY5	ELLE

Client Sample ID: 7550-P4 (3)

Lab Sample ID: 410-56522-13

Date Collected: 09/23/21 12:40
Date Received: 09/24/21 19:31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P4 (3)

Lab Sample ID: 410-56522-13

Date Collected: 09/23/21 12:40

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175442	09/26/21 10:09	JJT8	ELLE
Total/NA	Analysis	8260C		50	177596	10/01/21 13:22	USEJ	ELLE
Total/NA	Prep	3546			176384	09/28/21 18:50	QQ3P	ELLE
Total/NA	Analysis	8270D		10	176974	09/30/21 00:09	SJ89	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:51	XQY5	ELLE

Client Sample ID: 7550-P5 (3)

Lab Sample ID: 410-56522-14

Date Collected: 09/23/21 12:50

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P5 (3)

Lab Sample ID: 410-56522-14

Date Collected: 09/23/21 12:50

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 63.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 10:55	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 20:10	USEJ	ELLE
Total/NA	Prep	3546			176384	09/28/21 18:50	QQ3P	ELLE
Total/NA	Analysis	8270D		10	176621	09/29/21 18:54	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:54	XQY5	ELLE

Client Sample ID: 7551-Center (5)

Lab Sample ID: 410-56522-15

Date Collected: 09/23/21 13:05

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7551-Center (5)

Lab Sample ID: 410-56522-15

Date Collected: 09/23/21 13:05

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 51.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 10:55	JJT8	ELLE
Total/NA	Analysis	8260C		1	176078	09/28/21 18:39	ULCP	ELLE
Total/NA	Prep	3546			176384	09/28/21 18:50	QQ3P	ELLE
Total/NA	Analysis	8270D		1	176621	09/29/21 19:17	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:56	XQY5	ELLE

Client Sample ID: DUP-9

Lab Sample ID: 410-56522-16

Date Collected: 09/23/21 00:00

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: DUP-9

Lab Sample ID: 410-56522-16

Date Collected: 09/23/21 00:00

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 58.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 10:55	JJT8	ELLE
Total/NA	Analysis	8260C		1	176078	09/28/21 19:02	ULCP	ELLE
Total/NA	Prep	3546			176384	09/28/21 18:50	QQ3P	ELLE
Total/NA	Analysis	8270D		1	176974	09/30/21 00:33	SJ89	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 19:04	XQY5	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-56522-17

Date Collected: 09/23/21 00:00

Matrix: Water

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	176910	09/29/21 21:00	LCW8	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-56522-1	4847-P5 (3)	Solid	09/23/21 08:50	09/24/21 19:31
410-56522-2	2040-Center (5)	Solid	09/23/21 09:15	09/24/21 19:31
410-56522-3	2045-Center (5)	Solid	09/23/21 09:30	09/24/21 19:31
410-56522-4	941-Center (5)	Solid	09/23/21 09:50	09/24/21 19:31
410-56522-5	7550-Center (5)	Solid	09/23/21 10:24	09/24/21 19:31
410-56522-6	7550-P2 (3)	Solid	09/23/21 11:10	09/24/21 19:31
410-56522-7	7550-P1 (3)	Solid	09/23/21 11:25	09/24/21 19:31
410-56522-8	7550-P7 (3)	Solid	09/23/21 11:40	09/24/21 19:31
410-56522-9	7550-P6 (3)	Solid	09/23/21 11:55	09/24/21 19:31
410-56522-10	7550-P3 (3)	Solid	09/23/21 12:05	09/24/21 19:31
410-56522-11	UNK-ST-W (3)	Solid	09/23/21 12:20	09/24/21 19:31
410-56522-12	UNK-ST-E (3)	Solid	09/23/21 12:30	09/24/21 19:31
410-56522-13	7550-P4 (3)	Solid	09/23/21 12:40	09/24/21 19:31
410-56522-14	7550-P5 (3)	Solid	09/23/21 12:50	09/24/21 19:31
410-56522-15	7551-Center (5)	Solid	09/23/21 13:05	09/24/21 19:31
410-56522-16	DUP-9	Solid	09/23/21 00:00	09/24/21 19:31
410-56522-17	Trip Blank	Water	09/23/21 00:00	09/24/21 19:31

...ories Env, LLC

410-56522 Chain of Custody

Chain of Custody Record

eurofins Environment Testing America

Sampler: DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-31049-9562.8
Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 8 of 8
Mark Schaeffer			
Company: Stantec Consulting Corp.	PWSID:		Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:		
City: West Chester	TAT Requested (days): 5 day		
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No		
Phone:	PO #: Purchase Order Requested		
Email: mark.schaeffer@stantec.com	WO #:		
Project Name: PBF Logistics	Project #: 41007459		
Site: 51st Street Terminal	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	8010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	A	X	
4847-P5 (3)	9/23/21	0850	G	Solid		X	X			
2040-center (5)	9/23/21	0915	G	Solid		X	X			
2045-center (5)	9/23/21	0930	G	Solid		X	X			
941-center (5)	9/23/21	0950	G	Water Solid		X	X			
7550-center (5)	9/23/21	1024	G	Water Solid		X	X			
7550-P2 (3)	9/23/21	1110	G	Water Solid		X	X			
7550-P1 (3)	9/23/21	1125	G	Water Solid		X	X			
7550-P7 (3)	9/23/21	1140	G	Water Solid		X	X			
7550-P6 (3)	9/23/21	1155	G	Solid		X	X			
7550-P3 (3)	9/23/21	1205	G	Solid		X	X			
UNK-ST-W (3)	9/23/21	1220	G	Solid		X	X			

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 9-24-21 1340	Company: Stantec	Received by:	Date/Time: 9-24-21 1340	Company: Stantec
Relinquished by:	Date/Time: 9-24-21 1910	Company: Stantec	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 9-24-21 1931	Company: GLG

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.4	

Ver 06/08/2021

AC11

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-31049-9562.8
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 8 of 8
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	A		
UNK-ST-E (3)	9/23/21	1230	G	Solid		X	X			
7550-P4 (3)	9/23/21	1240	G	Solid		X	X			
7550-P5 (3)	9/23/21	1250	G	Solid		X	X			
7551-Center (5)	9/23/21	1305	G	~~Water~~ Solid		X	X			
DUP-9	9/23/21	—	G	~~Water~~ Solid		X	X			
Trip Blank	9/23/21	—	—	~~Water~~				X		
				~~Water~~						
				~~Water~~						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	9-24-21 1340	Stantec	[signature]	9-24-21 1340	Lancaster
2	[signature]	9-24-21 1910	Lancaster			
3				[signature]	9-24-21 1931	ECLE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4

Ver: 06/08/2021

1 5 11

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-56522-1

Login Number: 56522

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Hess, Anna

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-57140-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
10/7/2021 5:17:21 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
10/7/2021 5:17:21 PM

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Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-57140-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-57140-1

Receipt
The samples were received on 9/30/2021 8:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

GC/MS VOA
Method 8260C: The following sample was diluted due to the abundance of non-target analytes: 7551 - East (5) (410-57140-5). Elevated reporting limits (RLs) are provided.

Method 8260C_UST: Internal standard (ISTD) response for t-Butyl alcohol-d10 for the following sample was outside acceptance criteria: Trip Blank (410-57140-6). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260C_UST: The continuing calibration verification (CCV) associated with batch 410-178934 recovered above the upper control limit for 1,3,5-Trimethylbenzene and 1,2,4-Trimethylbenzene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Client Sample ID: 7550 - North (2.5) — Lab Sample ID: 410-57140-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	0.85	J	4.2	0.42	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.0	J	4.2	0.42	ug/Kg	1	☼	8260C	Total/NA
Lead	1.6		1.5	0.62	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550 - South (2.25) — Lab Sample ID: 410-57140-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	3.8	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5.7	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	6.3	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5.5	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	4.1	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	5.1	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Lead	5.6		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550 - East (2) — Lab Sample ID: 410-57140-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	6.9	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	8.8	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	10	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	7.2	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	7.9	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	6.6	J	19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	12	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Lead	3.2		1.5	0.61	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551 - North (5) — Lab Sample ID: 410-57140-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	1.7	J	9.1	0.91	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.3	J	9.1	1.1	ug/Kg	1	☼	8260C	Total/NA
Methyl tertiary butyl ether	6.5	J	9.1	0.91	ug/Kg	1	☼	8260C	Total/NA
Anthracene	21	J	28	5.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	8.2	J	28	6.8	ug/Kg	1	☼	8270D	Total/NA
Lead	13		2.5	1.0	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551 - East (5) — Lab Sample ID: 410-57140-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	81	J	580	58	ug/Kg	100	☼	8260C	Total/NA
Methyl tertiary butyl ether	240	J	580	58	ug/Kg	100	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	170	J	580	58	ug/Kg	100	☼	8260C	Total/NA
Anthracene	630		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	500		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	270		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	430		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	180		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	530		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	780		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	4000		19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1800		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	36		1.6	0.66	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Client Sample ID: Trip Blank — Lab Sample ID: 410-57140-6

No Detections.

Client Sample ID: 7551 - South (5) — Lab Sample ID: 410-57140-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	59		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	190		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	160		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	110		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	160		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	17	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	190		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	320		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	32		2.0	0.79	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 7550 - North (2.5)

Lab Sample ID: 410-57140-1

Date Collected: 09/29/21 11:50
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		4.2	0.34	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
1,2-Dichloroethane	ND		4.2	0.51	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
1,3,5-Trimethylbenzene	**0.85**	**J**	4.2	0.42	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
Toluene	ND		4.2	0.51	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
Xylenes, Total	ND		8.5	1.2	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
Methyl tertiary butyl ether	ND		4.2	0.42	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
Benzene	ND		4.2	0.42	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
Naphthalene	ND		4.2	1.7	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
1,2,4-Trimethylbenzene	**1.0**	**J**	4.2	0.42	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
Isopropylbenzene	ND		4.2	0.34	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
1,2-Dibromoethane	ND		4.2	0.34	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*10/01/21 09:17*	*10/03/21 17:42*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*10/01/21 09:17*	*10/03/21 17:42*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*10/01/21 09:17*	*10/03/21 17:42*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*10/01/21 09:17*	*10/03/21 17:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Benzo[a]anthracene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Benzo[a]pyrene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Benzo[b]fluoranthene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Benzo[g,h,i]perylene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Chrysene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Fluorene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Phenanthrene	ND		18	4.3	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Pyrene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*10/01/21 18:40*	*10/07/21 01:51*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*10/01/21 18:40*	*10/07/21 01:51*	*1*
p-Terphenyl-d14 (Surr)	*101*		*45 - 108*	*10/01/21 18:40*	*10/07/21 01:51*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.6**		1.5	0.62	mg/Kg	☼	09/30/21 13:37	10/01/21 19:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		1.0	1.0	%			09/30/21 12:19	1

Client Sample ID: 7550 - South (2.25)

Lab Sample ID: 410-57140-2

Date Collected: 09/29/21 12:10
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 86.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.5	0.44	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
1,2-Dichloroethane	ND		5.5	0.66	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1

Client Sample ID: 7550 - South (2.25)

Lab Sample ID: 410-57140-2

Date Collected: 09/29/21 12:10
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 86.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
Toluene	ND		5.5	0.66	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
Methyl tertiary butyl ether	ND		5.5	0.55	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
Benzene	ND		5.5	0.55	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
Naphthalene	ND		5.5	2.2	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
1,2,4-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
Isopropylbenzene	ND		5.5	0.44	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
1,2-Dibromoethane	ND		5.5	0.44	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*10/01/21 09:17*	*10/03/21 20:47*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*10/01/21 09:17*	*10/03/21 20:47*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*	*10/01/21 09:17*	*10/03/21 20:47*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*10/01/21 09:17*	*10/03/21 20:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Benzo[a]anthracene	**3.8**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Benzo[a]pyrene	**5.7**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Benzo[b]fluoranthene	**6.3**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Benzo[g,h,i]perylene	**5.5**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Chrysene	**4.1**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Fluorene	ND		19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Phenanthrene	ND		19	4.6	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Pyrene	**5.1**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*10/01/21 18:40*	*10/07/21 02:14*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*10/01/21 18:40*	*10/07/21 02:14*	*1*
p-Terphenyl-d14 (Surr)	*102*		*45 - 108*	*10/01/21 18:40*	*10/07/21 02:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**5.6**		1.6	0.64	mg/Kg	☼	09/30/21 13:37	10/05/21 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		1.0	1.0	%			09/30/21 12:19	1

Client Sample ID: 7550 - East (2)

Lab Sample ID: 410-57140-3

Date Collected: 09/29/21 12:30
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 87.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		4.3	0.34	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
1,2-Dichloroethane	ND		4.3	0.52	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
1,3,5-Trimethylbenzene	ND		4.3	0.43	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
Toluene	ND		4.3	0.52	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1

Client Sample ID: 7550 - East (2)

Lab Sample ID: 410-57140-3

Date Collected: 09/29/21 12:30
Date Received: 09/30/21 08:50

Matrix: Solid
Percent Solids: 87.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		8.6	1.2	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
Methyl tertiary butyl ether	ND		4.3	0.43	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
Benzene	ND		4.3	0.43	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
Naphthalene	ND		4.3	1.7	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
1,2,4-Trimethylbenzene	ND		4.3	0.43	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
Isopropylbenzene	ND		4.3	0.34	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
1,2-Dibromoethane	ND		4.3	0.34	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*54 - 135*	*10/01/21 11:11*	*10/03/21 18:06*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*10/01/21 11:11*	*10/03/21 18:06*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*10/01/21 11:11*	*10/03/21 18:06*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*10/01/21 11:11*	*10/03/21 18:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Benzo[a]anthracene	**6.9**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Benzo[a]pyrene	**8.8**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Benzo[b]fluoranthene	**10**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Benzo[g,h,i]perylene	**7.2**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Chrysene	**7.9**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Fluorene	ND		19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Phenanthrene	**6.6**	**J**	19	4.6	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Pyrene	**12**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*10/01/21 18:40*	*10/07/21 02:37*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*10/01/21 18:40*	*10/07/21 02:37*	*1*
p-Terphenyl-d14 (Surr)	*102*		*45 - 108*	*10/01/21 18:40*	*10/07/21 02:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**3.2**		1.5	0.61	mg/Kg	☼	09/30/21 13:37	10/01/21 19:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.4**		1.0	1.0	%			09/30/21 12:19	1

Client Sample ID: 7551 - North (5)

Lab Sample ID: 410-57140-4

Date Collected: 09/29/21 13:00
Date Received: 09/30/21 08:50

Matrix: Solid
Percent Solids: 58.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.1	0.73	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
1,2-Dichloroethane	ND		9.1	1.1	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
1,3,5-Trimethylbenzene	**1.7**	**J**	9.1	0.91	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
Toluene	**2.3**	**J**	9.1	1.1	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
Xylenes, Total	ND		18	2.6	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
Methyl tertiary butyl ether	**6.5**	**J**	9.1	0.91	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1

Client Sample ID: 7551 - North (5)

Lab Sample ID: 410-57140-4

Date Collected: 09/29/21 13:00
Date Received: 09/30/21 08:50

Matrix: Solid
Percent Solids: 58.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		9.1	0.91	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
Naphthalene	ND		9.1	3.7	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
1,2,4-Trimethylbenzene	ND		9.1	0.91	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
Isopropylbenzene	ND		9.1	0.73	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
1,2-Dibromoethane	ND		9.1	0.73	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*54 - 135*	*10/01/21 11:11*	*10/03/21 18:29*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*10/01/21 11:11*	*10/03/21 18:29*	*1*
Dibromofluoromethane (Surr)	*36*	*S1-*	*50 - 141*	*10/01/21 11:11*	*10/03/21 18:29*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*10/01/21 11:11*	*10/03/21 18:29*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**21**	**J**	28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Benzo[a]anthracene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Benzo[a]pyrene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Benzo[b]fluoranthene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Benzo[g,h,i]perylene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Chrysene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Fluorene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Phenanthrene	**8.2**	**J**	28	6.8	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Pyrene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*45*		*39 - 100*	*10/01/21 18:40*	*10/07/21 03:01*	*1*
Nitrobenzene-d5 (Surr)	*44*		*32 - 97*	*10/01/21 18:40*	*10/07/21 03:01*	*1*
p-Terphenyl-d14 (Surr)	*60*		*45 - 108*	*10/01/21 18:40*	*10/07/21 03:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		2.5	1.0	mg/Kg	☼	09/30/21 13:37	10/01/21 19:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**41.8**		1.0	1.0	%			09/30/21 12:19	1

Client Sample ID: 7551 - East (5)

Lab Sample ID: 410-57140-5

Date Collected: 09/29/21 13:20
Date Received: 09/30/21 08:50

Matrix: Solid
Percent Solids: 86.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		580	46	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
1,2-Dichloroethane	ND		580	70	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
1,3,5-Trimethylbenzene	**81**	**J**	580	58	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
Toluene	ND		580	70	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
Xylenes, Total	ND		1200	160	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
Methyl tertiary butyl ether	**240**	**J**	580	58	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
Benzene	ND		580	58	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
Naphthalene	ND		580	230	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100

Client Sample ID: 7551 - East (5)

Lab Sample ID: 410-57140-5

Date Collected: 09/29/21 13:20
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 86.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	170	J	580	58	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
Isopropylbenzene	ND		580	46	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
1,2-Dibromoethane	ND		580	46	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*54 - 135*	*10/01/21 11:16*	*10/04/21 18:39*	*100*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*10/01/21 11:16*	*10/04/21 18:39*	*100*
Dibromofluoromethane (Surr)	*86*		*50 - 141*	*10/01/21 11:16*	*10/04/21 18:39*	*100*
Toluene-d8 (Surr)	*87*		*52 - 141*	*10/01/21 11:16*	*10/04/21 18:39*	*100*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	630		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Benzo[a]anthracene	500		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Benzo[a]pyrene	270		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Benzo[b]fluoranthene	430		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Benzo[g,h,i]perylene	180		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Chrysene	530		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Fluorene	780		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Phenanthrene	4000		19	4.6	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Pyrene	1800		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*39 - 100*	*10/01/21 18:40*	*10/07/21 03:24*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*10/01/21 18:40*	*10/07/21 03:24*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*10/01/21 18:40*	*10/07/21 03:24*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	36		1.6	0.66	mg/Kg	☼	09/30/21 13:37	10/01/21 19:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.6		1.0	1.0	%			09/30/21 12:19	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-57140-6

Date Collected: 09/29/21 00:00
Matrix: Water
Date Received: 09/30/21 08:50

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			10/05/21 15:53	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/21 15:53	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/05/21 15:53	1
1,3,5-Trimethylbenzene	ND	^c	5.0	0.30	ug/L			10/05/21 15:53	1
Toluene	ND		1.0	0.30	ug/L			10/05/21 15:53	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/21 15:53	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/21 15:53	1
Benzene	ND		1.0	0.30	ug/L			10/05/21 15:53	1
Naphthalene	ND		5.0	1.0	ug/L			10/05/21 15:53	1
1,2,4-Trimethylbenzene	ND	^c	5.0	1.0	ug/L			10/05/21 15:53	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-57140-6

Date Collected: 09/29/21 00:00

Matrix: Water

Date Received: 09/30/21 08:50

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.30	ug/L			10/05/21 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*10/05/21 15:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/05/21 15:53*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*10/05/21 15:53*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/05/21 15:53*	*1*

Client Sample ID: 7551 - South (5)

Lab Sample ID: 410-57140-7

Date Collected: 09/29/21 13:40

Matrix: Solid

Date Received: 09/30/21 08:50

Percent Solids: 73.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.4	0.43	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
1,2-Dichloroethane	ND		5.4	0.65	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
1,3,5-Trimethylbenzene	ND		5.4	0.54	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
Toluene	ND		5.4	0.65	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
Methyl tertiary butyl ether	ND		5.4	0.54	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
Benzene	ND		5.4	0.54	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
Naphthalene	ND		5.4	2.2	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
1,2,4-Trimethylbenzene	ND		5.4	0.54	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
Isopropylbenzene	ND		5.4	0.43	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
1,2-Dibromoethane	ND		5.4	0.43	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*54 - 135*	*10/01/21 11:11*	*10/05/21 15:49*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*10/01/21 11:11*	*10/05/21 15:49*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*	*10/01/21 11:11*	*10/05/21 15:49*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*10/01/21 11:11*	*10/05/21 15:49*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**59**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Benzo[a]anthracene	**190**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Benzo[a]pyrene	**160**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Benzo[b]fluoranthene	**190**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Benzo[g,h,i]perylene	**110**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Chrysene	**160**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Fluorene	**17**	**J**	22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Phenanthrene	**190**		22	5.3	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Pyrene	**320**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*10/01/21 18:40*	*10/07/21 03:47*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*10/01/21 18:40*	*10/07/21 03:47*	*1*
p-Terphenyl-d14 (Surr)	*96*		*45 - 108*	*10/01/21 18:40*	*10/07/21 03:47*	*1*

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Client Sample ID: 7551 - South (5)
Date Collected: 09/29/21 13:40
Date Received: 09/30/21 08:50

Lab Sample ID: 410-57140-7
Matrix: Solid
Percent Solids: 73.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	32		2.0	0.79	mg/Kg	☼	09/30/21 13:37	10/01/21 19:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.2		1.0	1.0	%			09/30/21 12:19	1

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-57140-1	7550 - North (2.5)	114	93	104	95
410-57140-2	7550 - South (2.25)	113	92	108	96
410-57140-3	7550 - East (2)	110	91	105	94
410-57140-4	7551 - North (5)	110	94	36 S1-	97
410-57140-5	7551 - East (5)	94	92	86	87
410-57140-7	7551 - South (5)	120	93	108	95
LCS 410-178181/4	Lab Control Sample	104	96	104	98
LCS 410-178968/4	Lab Control Sample	106	96	106	99
LCSD 410-178181/5	Lab Control Sample Dup	103	95	103	99
LCSD 410-178968/5	Lab Control Sample Dup	103	96	105	98
MB 410-178181/7	Method Blank	106	94	106	97
MB 410-178968/7	Method Blank	107	91	108	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-57140-6	Trip Blank	95	99	96	102
LCS 410-178934/4	Lab Control Sample	102	100	96	103
LCSD 410-178934/5	Lab Control Sample Dup	101	102	95	103
MB 410-178934/6	Method Blank	100	99	96	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-57140-1	7550 - North (2.5)	85	75	101
410-57140-2	7550 - South (2.25)	84	74	102
410-57140-3	7550 - East (2)	84	76	102
410-57140-4	7551 - North (5)	45	44	60
410-57140-5	7551 - East (5)	64	64	80
410-57140-7	7551 - South (5)	83	74	96
LCS 410-177890/2-A	Lab Control Sample	87	78	98
MB 410-177890/1-A	Method Blank	89	79	106

Surrogate Legend

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-178181/7
Matrix: Solid
Analysis Batch: 178181

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			10/03/21 15:57	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			10/03/21 15:57	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			10/03/21 15:57	1
Toluene	ND		5.0	0.60	ug/Kg			10/03/21 15:57	1
Xylenes, Total	ND		10	1.4	ug/Kg			10/03/21 15:57	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			10/03/21 15:57	1
Benzene	ND		5.0	0.50	ug/Kg			10/03/21 15:57	1
Naphthalene	ND		5.0	2.0	ug/Kg			10/03/21 15:57	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			10/03/21 15:57	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			10/03/21 15:57	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			10/03/21 15:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*		*10/03/21 15:57*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*		*10/03/21 15:57*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*		*10/03/21 15:57*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*		*10/03/21 15:57*	*1*

Lab Sample ID: LCS 410-178181/4
Matrix: Solid
Analysis Batch: 178181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	17.9		ug/Kg		89	78 - 120
1,2-Dichloroethane	20.0	19.9		ug/Kg		99	71 - 128
1,3,5-Trimethylbenzene	20.0	17.2		ug/Kg		86	73 - 120
Toluene	20.0	17.8		ug/Kg		89	80 - 120
Xylenes, Total	60.0	55.7		ug/Kg		93	75 - 120
Methyl tertiary butyl ether	20.0	20.0		ug/Kg		100	72 - 120
Benzene	20.0	18.7		ug/Kg		94	80 - 120
Naphthalene	20.0	18.6		ug/Kg		93	48 - 130
1,2,4-Trimethylbenzene	20.0	17.3		ug/Kg		87	73 - 120
Isopropylbenzene	20.0	18.2		ug/Kg		91	77 - 120
1,2-Dibromoethane	20.0	19.5		ug/Kg		98	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*104*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: LCSD 410-178181/5
Matrix: Solid
Analysis Batch: 178181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	17.4		ug/Kg		87	78 - 120	3	30
1,2-Dichloroethane	20.0	19.6		ug/Kg		98	71 - 128	1	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-178181/5
Matrix: Solid
Analysis Batch: 178181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	16.9		ug/Kg		85	73 - 120	2	30
Toluene			20.0	17.4		ug/Kg		87	80 - 120	2	30
Xylenes, Total			60.0	53.7		ug/Kg		90	75 - 120	4	30
Methyl tertiary butyl ether			20.0	19.1		ug/Kg		95	72 - 120	5	30
Benzene			20.0	18.1		ug/Kg		90	80 - 120	3	30
Naphthalene			20.0	17.8		ug/Kg		89	48 - 130	4	30
1,2,4-Trimethylbenzene			20.0	17.4		ug/Kg		87	73 - 120	1	30
Isopropylbenzene			20.0	17.8		ug/Kg		89	77 - 120	2	30
1,2-Dibromoethane			20.0	19.0		ug/Kg		95	76 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*
Dibromofluoromethane (Surr)	*103*		*50 - 141*
Toluene-d8 (Surr)	*99*		*52 - 141*

Lab Sample ID: MB 410-178968/7
Matrix: Solid
Analysis Batch: 178968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			10/05/21 15:08	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			10/05/21 15:08	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			10/05/21 15:08	1
Toluene	ND		5.0	0.60	ug/Kg			10/05/21 15:08	1
Xylenes, Total	ND		10	1.4	ug/Kg			10/05/21 15:08	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			10/05/21 15:08	1
Benzene	ND		5.0	0.50	ug/Kg			10/05/21 15:08	1
Naphthalene	ND		5.0	2.0	ug/Kg			10/05/21 15:08	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			10/05/21 15:08	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			10/05/21 15:08	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			10/05/21 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*		*10/05/21 15:08*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*		*10/05/21 15:08*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*		*10/05/21 15:08*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*		*10/05/21 15:08*	*1*

Lab Sample ID: LCS 410-178968/4
Matrix: Solid
Analysis Batch: 178968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			20.0	19.2		ug/Kg		96	78 - 120
1,2-Dichloroethane			20.0	20.6		ug/Kg		103	71 - 128
1,3,5-Trimethylbenzene			20.0	18.3		ug/Kg		92	73 - 120
Toluene			20.0	19.1		ug/Kg		96	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-178968/4
Matrix: Solid
Analysis Batch: 178968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	60.0	59.9		ug/Kg		100	75 - 120
Methyl tertiary butyl ether	20.0	20.5		ug/Kg		102	72 - 120
Benzene	20.0	20.1		ug/Kg		100	80 - 120
Naphthalene	20.0	18.8		ug/Kg		94	48 - 130
1,2,4-Trimethylbenzene	20.0	18.6		ug/Kg		93	73 - 120
Isopropylbenzene	20.0	19.9		ug/Kg		99	77 - 120
1,2-Dibromoethane	20.0	20.4		ug/Kg		102	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*106*		*50 - 141*
Toluene-d8 (Surr)	*99*		*52 - 141*

Lab Sample ID: LCSD 410-178968/5
Matrix: Solid
Analysis Batch: 178968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	18.9		ug/Kg		94	78 - 120	2	30
1,2-Dichloroethane	20.0	20.8		ug/Kg		104	71 - 128	1	30
1,3,5-Trimethylbenzene	20.0	18.0		ug/Kg		90	73 - 120	2	30
Toluene	20.0	18.8		ug/Kg		94	80 - 120	2	30
Xylenes, Total	60.0	59.1		ug/Kg		99	75 - 120	1	30
Methyl tertiary butyl ether	20.0	20.6		ug/Kg		103	72 - 120	1	30
Benzene	20.0	20.0		ug/Kg		100	80 - 120	1	30
Naphthalene	20.0	18.4		ug/Kg		92	48 - 130	2	30
1,2,4-Trimethylbenzene	20.0	18.2		ug/Kg		91	73 - 120	3	30
Isopropylbenzene	20.0	19.7		ug/Kg		98	77 - 120	1	30
1,2-Dibromoethane	20.0	20.4		ug/Kg		102	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*105*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-178934/6
Matrix: Water
Analysis Batch: 178934

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			10/05/21 13:06	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/21 13:06	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/05/21 13:06	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			10/05/21 13:06	1

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-178934/6
Matrix: Water
Analysis Batch: 178934

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.30	ug/L			10/05/21 13:06	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/21 13:06	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/21 13:06	1
Benzene	ND		1.0	0.30	ug/L			10/05/21 13:06	1
Naphthalene	ND		5.0	1.0	ug/L			10/05/21 13:06	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			10/05/21 13:06	1
Isopropylbenzene	ND		5.0	0.30	ug/L			10/05/21 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*10/05/21 13:06*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/05/21 13:06*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*10/05/21 13:06*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/05/21 13:06*	*1*

Lab Sample ID: LCS 410-178934/4
Matrix: Water
Analysis Batch: 178934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	19.7		ug/L		99	77 - 120		
Ethylbenzene			20.0	22.3		ug/L		112	80 - 120		
1,2-Dichloroethane			20.0	19.1		ug/L		96	73 - 124		
1,3,5-Trimethylbenzene			20.0	21.5		ug/L		108	75 - 120		
Toluene			20.0	19.5		ug/L		98	80 - 120		
Xylenes, Total			60.0	58.4		ug/L		97	80 - 120		
Methyl tertiary butyl ether			20.0	19.7		ug/L		99	69 - 122		
Benzene			20.0	20.5		ug/L		102	80 - 120		
Naphthalene			20.0	21.6		ug/L		108	53 - 124		
1,2,4-Trimethylbenzene			20.0	21.4		ug/L		107	75 - 120		
Isopropylbenzene			20.0	19.3		ug/L		96	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 410-178934/5
Matrix: Water
Analysis Batch: 178934

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	19.5		ug/L		98	77 - 120	1	30
Ethylbenzene			20.0	22.5		ug/L		112	80 - 120	1	30
1,2-Dichloroethane			20.0	19.1		ug/L		95	73 - 124	0	30
1,3,5-Trimethylbenzene			20.0	21.5		ug/L		107	75 - 120	0	30
Toluene			20.0	19.6		ug/L		98	80 - 120	1	30
Xylenes, Total			60.0	58.7		ug/L		98	80 - 120	1	30

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-178934/5
Matrix: Water
Analysis Batch: 178934

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tertiary butyl ether			20.0	19.8		ug/L		99	69 - 122	0	30
Benzene			20.0	20.3		ug/L		101	80 - 120	1	30
Naphthalene			20.0	19.8		ug/L		99	53 - 124	8	30
1,2,4-Trimethylbenzene			20.0	21.4		ug/L		107	75 - 120	0	30
Isopropylbenzene			20.0	19.2		ug/L		96	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-177890/1-A
Matrix: Solid
Analysis Batch: 179769

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Chrysene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Fluorene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Phenanthrene	ND		17	4.0	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Pyrene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*10/01/21 18:40*	*10/06/21 22:20*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*10/01/21 18:40*	*10/06/21 22:20*	*1*
p-Terphenyl-d14 (Surr)	*106*		*45 - 108*	*10/01/21 18:40*	*10/06/21 22:20*	*1*

Lab Sample ID: LCS 410-177890/2-A
Matrix: Solid
Analysis Batch: 179769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene			1670	1580		ug/Kg		95	75 - 120
Benzo[a]anthracene			1670	1680		ug/Kg		101	73 - 120
Benzo[a]pyrene			1670	1660		ug/Kg		99	80 - 123
Benzo[b]fluoranthene			1670	1550		ug/Kg		93	63 - 120
Benzo[g,h,i]perylene			1670	1790		ug/Kg		107	77 - 120
Chrysene			1670	1550		ug/Kg		93	66 - 120
Fluorene			1670	1460		ug/Kg		88	68 - 120
Phenanthrene			1670	1510		ug/Kg		91	74 - 120
Pyrene			1670	1450		ug/Kg		87	70 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-177890/2-A
Matrix: Solid
Analysis Batch: 179769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177890

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*
Nitrobenzene-d5 (Surr)	*78*		*32 - 97*
p-Terphenyl-d14 (Surr)	*98*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-177343/1-A
Matrix: Solid
Analysis Batch: 177956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		09/30/21 13:37	10/01/21 18:12	1

Lab Sample ID: MB 410-177343/1-A
Matrix: Solid
Analysis Batch: 178586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		09/30/21 13:37	10/04/21 14:01	1

Lab Sample ID: LCS 410-177343/2-A
Matrix: Solid
Analysis Batch: 177956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.62		mg/Kg		112	80 - 120

Lab Sample ID: LCS 410-177343/2-A
Matrix: Solid
Analysis Batch: 178586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.36		mg/Kg		107	80 - 120

GC/MS VOA

Prep Batch: 177674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	5035	
410-57140-2	7550 - South (2.25)	Total/NA	Solid	5035	
410-57140-3	7550 - East (2)	Total/NA	Solid	5035	
410-57140-4 - RA	7551 - North (5)	Total/NA	Solid	5035	
410-57140-4	7551 - North (5)	Total/NA	Solid	5035	
410-57140-7	7551 - South (5)	Total/NA	Solid	5035	

Prep Batch: 177675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-5	7551 - East (5)	Total/NA	Solid	5035	

Analysis Batch: 178181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	8260C	177674
410-57140-2	7550 - South (2.25)	Total/NA	Solid	8260C	177674
410-57140-3	7550 - East (2)	Total/NA	Solid	8260C	177674
410-57140-4	7551 - North (5)	Total/NA	Solid	8260C	177674
MB 410-178181/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-178181/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-178181/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 178341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-5	7551 - East (5)	Total/NA	Solid	8260C	177675

Analysis Batch: 178432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-4 - RA	7551 - North (5)	Total/NA	Solid	8260C	177674
MB 410-178432/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-178432/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-178432/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 178934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-6	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-178934/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-178934/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-178934/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Analysis Batch: 178968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-7	7551 - South (5)	Total/NA	Solid	8260C	177674
MB 410-178968/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-178968/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-178968/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 177890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 177890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-2	7550 - South (2.25)	Total/NA	Solid	3546	
410-57140-3	7550 - East (2)	Total/NA	Solid	3546	
410-57140-4	7551 - North (5)	Total/NA	Solid	3546	
410-57140-5	7551 - East (5)	Total/NA	Solid	3546	
410-57140-7	7551 - South (5)	Total/NA	Solid	3546	
MB 410-177890/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-177890/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 179769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	8270D	177890
410-57140-2	7550 - South (2.25)	Total/NA	Solid	8270D	177890
410-57140-3	7550 - East (2)	Total/NA	Solid	8270D	177890
410-57140-4	7551 - North (5)	Total/NA	Solid	8270D	177890
410-57140-5	7551 - East (5)	Total/NA	Solid	8270D	177890
410-57140-7	7551 - South (5)	Total/NA	Solid	8270D	177890
MB 410-177890/1-A	Method Blank	Total/NA	Solid	8270D	177890
LCS 410-177890/2-A	Lab Control Sample	Total/NA	Solid	8270D	177890

Metals

Prep Batch: 177343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	3050B	
410-57140-2	7550 - South (2.25)	Total/NA	Solid	3050B	
410-57140-3	7550 - East (2)	Total/NA	Solid	3050B	
410-57140-4	7551 - North (5)	Total/NA	Solid	3050B	
410-57140-5	7551 - East (5)	Total/NA	Solid	3050B	
410-57140-7	7551 - South (5)	Total/NA	Solid	3050B	
MB 410-177343/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-177343/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 177956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	6010C	177343
410-57140-3	7550 - East (2)	Total/NA	Solid	6010C	177343
410-57140-4	7551 - North (5)	Total/NA	Solid	6010C	177343
410-57140-5	7551 - East (5)	Total/NA	Solid	6010C	177343
410-57140-7	7551 - South (5)	Total/NA	Solid	6010C	177343
MB 410-177343/1-A	Method Blank	Total/NA	Solid	6010C	177343
LCS 410-177343/2-A	Lab Control Sample	Total/NA	Solid	6010C	177343

Analysis Batch: 178586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-177343/1-A	Method Blank	Total/NA	Solid	6010C	177343
LCS 410-177343/2-A	Lab Control Sample	Total/NA	Solid	6010C	177343

Analysis Batch: 178989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-2	7550 - South (2.25)	Total/NA	Solid	6010C	177343

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

General Chemistry

Analysis Batch: 177285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	Moisture	
410-57140-2	7550 - South (2.25)	Total/NA	Solid	Moisture	
410-57140-3	7550 - East (2)	Total/NA	Solid	Moisture	
410-57140-4	7551 - North (5)	Total/NA	Solid	Moisture	
410-57140-5	7551 - East (5)	Total/NA	Solid	Moisture	
410-57140-7	7551 - South (5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Client Sample ID: 7550 - North (2.5)

Lab Sample ID: 410-57140-1

Date Collected: 09/29/21 11:50
Matrix: Solid
Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	177285	09/30/21 12:19	UWC1	ELLE

Client Sample ID: 7550 - North (2.5)

Lab Sample ID: 410-57140-1

Date Collected: 09/29/21 11:50
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			177674	10/01/21 09:17	JJT8	ELLE
Total/NA	Analysis	8260C		1	178181	10/03/21 17:42	UCB5	ELLE
Total/NA	Prep	3546			177890	10/01/21 18:40	QQ3P	ELLE
Total/NA	Analysis	8270D		1	179769	10/07/21 01:51	DZ6A	ELLE
Total/NA	Prep	3050B			177343	09/30/21 13:37	NWV2	ELLE
Total/NA	Analysis	6010C		1	177956	10/01/21 19:16	XQY5	ELLE

Client Sample ID: 7550 - South (2.25)

Lab Sample ID: 410-57140-2

Date Collected: 09/29/21 12:10
Matrix: Solid
Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	177285	09/30/21 12:19	UWC1	ELLE

Client Sample ID: 7550 - South (2.25)

Lab Sample ID: 410-57140-2

Date Collected: 09/29/21 12:10
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			177674	10/01/21 09:17	JJT8	ELLE
Total/NA	Analysis	8260C		1	178181	10/03/21 20:47	UCB5	ELLE
Total/NA	Prep	3546			177890	10/01/21 18:40	QQ3P	ELLE
Total/NA	Analysis	8270D		1	179769	10/07/21 02:14	DZ6A	ELLE
Total/NA	Prep	3050B			177343	09/30/21 13:37	NWV2	ELLE
Total/NA	Analysis	6010C		1	178989	10/05/21 12:19	WJM9	ELLE

Client Sample ID: 7550 - East (2)

Lab Sample ID: 410-57140-3

Date Collected: 09/29/21 12:30
Matrix: Solid
Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	177285	09/30/21 12:19	UWC1	ELLE

Client Sample ID: 7550 - East (2)

Lab Sample ID: 410-57140-3

Date Collected: 09/29/21 12:30

Matrix: Solid

Date Received: 09/30/21 08:50

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			177674	10/01/21 11:11	JJT8	ELLE
Total/NA	Analysis	8260C		1	178181	10/03/21 18:06	UCB5	ELLE
Total/NA	Prep	3546			177890	10/01/21 18:40	QQ3P	ELLE
Total/NA	Analysis	8270D		1	179769	10/07/21 02:37	DZ6A	ELLE
Total/NA	Prep	3050B			177343	09/30/21 13:37	NWV2	ELLE
Total/NA	Analysis	6010C		1	177956	10/01/21 19:19	XQY5	ELLE

Client Sample ID: 7551 - North (5)

Lab Sample ID: 410-57140-4

Date Collected: 09/29/21 13:00

Matrix: Solid

Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	177285	09/30/21 12:19	UWC1	ELLE

Client Sample ID: 7551 - North (5)

Lab Sample ID: 410-57140-4

Date Collected: 09/29/21 13:00

Matrix: Solid

Date Received: 09/30/21 08:50

Percent Solids: 58.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			177674	10/01/21 11:11	JJT8	ELLE
Total/NA	Analysis	8260C		1	178181	10/03/21 18:29	UCB5	ELLE
Total/NA	Prep	5035	RA		177674	10/01/21 11:11	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	178432	10/04/21 16:58	UCB5	ELLE
Total/NA	Prep	3546			177890	10/01/21 18:40	QQ3P	ELLE
Total/NA	Analysis	8270D		1	179769	10/07/21 03:01	DZ6A	ELLE
Total/NA	Prep	3050B			177343	09/30/21 13:37	NWV2	ELLE
Total/NA	Analysis	6010C		1	177956	10/01/21 19:03	XQY5	ELLE

Client Sample ID: 7551 - East (5)

Lab Sample ID: 410-57140-5

Date Collected: 09/29/21 13:20

Matrix: Solid

Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	177285	09/30/21 12:19	UWC1	ELLE

Client Sample ID: 7551 - East (5)

Lab Sample ID: 410-57140-5

Date Collected: 09/29/21 13:20

Matrix: Solid

Date Received: 09/30/21 08:50

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			177675	10/01/21 11:16	JJT8	ELLE
Total/NA	Analysis	8260C		100	178341	10/04/21 18:39	USEJ	ELLE
Total/NA	Prep	3546			177890	10/01/21 18:40	QQ3P	ELLE
Total/NA	Analysis	8270D		1	179769	10/07/21 03:24	DZ6A	ELLE
Total/NA	Prep	3050B			177343	09/30/21 13:37	NWV2	ELLE
Total/NA	Analysis	6010C		1	177956	10/01/21 19:09	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-57140-6

Date Collected: 09/29/21 00:00

Matrix: Water

Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	178934	10/05/21 15:53	UKAD	ELLE

Client Sample ID: 7551 - South (5)

Lab Sample ID: 410-57140-7

Date Collected: 09/29/21 13:40

Matrix: Solid

Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	177285	09/30/21 12:19	UWC1	ELLE

Client Sample ID: 7551 - South (5)

Lab Sample ID: 410-57140-7

Date Collected: 09/29/21 13:40

Matrix: Solid

Date Received: 09/30/21 08:50

Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			177674	10/01/21 11:11	JJT8	ELLE
Total/NA	Analysis	8260C		1	178968	10/05/21 15:49	UCB5	ELLE
Total/NA	Prep	3546			177890	10/01/21 18:40	QQ3P	ELLE
Total/NA	Analysis	8270D		1	179769	10/07/21 03:47	DZ6A	ELLE
Total/NA	Prep	3050B			177343	09/30/21 13:37	NWV2	ELLE
Total/NA	Analysis	6010C		1	177956	10/01/21 19:22	XQY5	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-57140-1	7550 - North (2.5)	Solid	09/29/21 11:50	09/30/21 08:50
410-57140-2	7550 - South (2.25)	Solid	09/29/21 12:10	09/30/21 08:50
410-57140-3	7550 - East (2)	Solid	09/29/21 12:30	09/30/21 08:50
410-57140-4	7551 - North (5)	Solid	09/29/21 13:00	09/30/21 08:50
410-57140-5	7551 - East (5)	Solid	09/29/21 13:20	09/30/21 08:50
410-57140-6	Trip Blank	Water	09/29/21 00:00	09/30/21 08:50
410-57140-7	7551 - South (5)	Solid	09/29/21 13:40	09/30/21 08:50

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custo

410-57140 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: Dana Hoblitzell		COC No: 410-34893-9562.1
Client Contact: Mark Schaeffer	Phone: 484 354 5032		Page: Page 1 of 1
Company: Stantec Consulting Corp	PWSID:	Analysis Requested	Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: West Chester	TAT Requested (days): 3 days		
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No		
Phone:	PO #: 213403451		Other:
Email: mark.schaeffer@stantec.com	WO #:		
Project Name: PBF Logistics	Project #: 41007459		
Site: 51st Street Terminal	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			F	N	A		
7550-North (2.5)	9/29/21	1150	G	Solid		X	X			
7550-South (2.25)	9/29/21	1210	G	Solid		X	X			
7550-east (2)	9/29/21	1230	G	Solid		X	X			
7551-North (5)	9/29/21	1300	G	Solid		X	X			
7551-east (5)	9/29/21	1320	G	Solid		X	X			
Trip Blank	9/29/21	—	—	Water				X		
7551-South (5)	9/29/21	1340	G	Solid		X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date: 9-28-21	Time: 1240	Method of Shipment:			
Relinquished by:	Date/Time: 9/28/21 1500	Company: Stantec	Received by:	Date/Time: 9/29/21 1500	Company: Stantec		
Relinquished by:	Date/Time: 9/30/21 850	Company: Stantec	Received by:	Date/Time:	Company:		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 9/30/21 0850	Company: DHL		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-57140-1

Login Number: 57140

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Lugardo, Tamara

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

APPENDIX B

MONITORING WELL AND BORING LOGS

SOIL CORE / SAMPLING LOG

Boring/Well 1044-P4 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/22/2021 Drilling Completed 10/22/2021

Drilling Contractor Hawk Drilling Driller Andy Helper Jesse

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
6.5-7	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	2.00	2.1	0-0.5	0-5' Black-grey sands with gravels, poorly sorted, dry
			4.7	0.5-1	
			5.1	1-1.5	
			2.7	1.5-2	
			3.1	2-2.5	
			4.1	2.5-3	
			3.6	3-3.5	
			4.7	3.5-4	
			1.9	4-4.5	
			4.7	4.5-5	
5	10	5.00	1.7	5-5.5	5-10' Orange brown fine silty sands with subround pebbles, poorly sorted, wet at 7'
			2.1	5.5-6	
			0.7	6-6.5	
			0.3	6.5-7	
			0.6	7-7.5	
			1	7.5-8	
			0.9	8-8.5	
			1.7	8.5-9	
			1.8	9-9.5	
			0.4	9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well Pipe- 22 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/22/2021 Drilling Completed 10/22/2021

Drilling Contractor Hawk Drilling Driller Andy Helper Jesse

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Total Depth Drilled 15 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
13-13.5	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0.1	0-0.5	0-15' Black-grey fine to medium sands with subround pebbles, poorly sorted, dry Wet at 13.5'
			0.2	0.5-1	
			0.1	1-1.5	
			1.1	1.5-2	
			1.2	2-2.5	
			0.7	2.5-3	
			0.9	3-3.5	
			4.1	3.5-4	
			0.1	4-4.5	
			0.1	4.5-5	
5	10	5.00	0.2	5-5.5	
			0	5.5-6	
			0	6-6.5	
			0	6.5-7	
			0	7-7.5	
			0	7.5-8	
			0	8-8.5	
			0	8.5-9	
			0	9-9.5	
			0	9.5-10	
10	15	5.00	0	10-10.5	
			0	10.5-11	
			0	11-11.5	
			0	11.5-12	
			0	12-12.5	
			0	12.5-13	
			0	13-13.5	
			0	13.5-14	
			0	14-14.5	
			0	14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well 941-C-(11-11.5) Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/22/2021 Drilling Completed 10/22/2021

Drilling Contractor Hawk Drilling Driller Andy Helper Jesse

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Total Depth Drilled 13 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
11-11.5	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0.1	0-0.5	0-13' Black-grey fine to medium sands with subround pebbles, poorly sorted, dry Wet at 11.5
			0.3	0.5-1	
			1.1	1-1.5	
			1.7	1.5-2	
			0.1	2-2.5	
			0.7	2.5-3	
			1.7	3-3.5	
			0.6	3.5-4	
			1.3	4-4.5	
			1.4	4.5-5	
5	10	5.00	1.7	5-5.5	
			1.2	5.5-6	
			1.7	6-6.5	
			1	6.5-7	
			2.1	7-7.5	
			2.1	7.5-8	
			2	8-8.5	
			1.9	8.5-9	
			1.7	9-9.5	
			1.6	9.5-10	
10	15	5.00	1.7	10-10.5	
			1.8	10.5-11	
			1.9	11-11.5	
			2	11.5-12	
			2.1	12-12.5	
			2	12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well 2040-P2 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/22/2021 Drilling Completed 10/22/2021

Drilling Contractor Hawk Drilling Driller Andy Helper Jesse

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4.5-5	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	5.00	1.1	0-0.5	0-3' Black-grey fine to medium sands with subround pebbles, poorly sorted, dry Wet at 11.5
			1.2	0.5-1	
			2.1	1-1.5	
			1.1	1.5-2	
			0.1	2-2.5	
			0	2.5-3	
			0	3-3.5	3-5' Dark grey with briwb fine silty sands, poorly sorted, dry refusal at 5', likely concrete pad
			0	3.5-4	
			0	4-4.5	
			0	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-101 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 7 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	5.00	101	0-0.5	0-5' Black fine to medium silty sands with subround pebbles
			287	0.5-1	
			489	1-1.5	
			150	1.5-2	
			127	2-2.5	
			129	2.5-3	
			130	3-3.5	
			87	3.5-4	
			101	4-4.5	
			87	4.5-5	
5	10	2.00	10.1	5-5.5	5-7' Yellow-green fine silty sands
			6.7	5.5-6	
			10.2	6-6.5	
			11.1	6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-102 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 3 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.00	10.1	0-0.5	0-3' Brown black fine to medium sands with subround to subangular pebbles, poorly sorted, dry Refusal at 3'
			14.7	0.5-1	
			10.7	1-1.5	
			13.9	1.5-2	
			32.9	2-2.5	
			464	2.5-3	
				3-3.5	
				3.5-4	
				4-4.5	
				4.5-5	
5	10	2.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-103 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.00	1000	0-0.5	0-5' Greenish yellow fine to medium silty sands with subround to subangular pebbles, poorly sorted, damp
			1005	0.5-1	
			1200	1-1.5	
			1225	1.5-2	
			1011	2-2.5	
			1271	2.5-3	
			1361	3-3.5	
			1451	3.5-4	
			1501	4-4.5	
			1287	4.5-5	
5	10	2.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-104 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	5.00	23.7	0-0.5	0-5' Greenish yellow fine to medium silty sands with a solvent like smell, poorly sorted, damp
			88.9	0.5-1	
			76.2	1-1.5	
			49.7	1.5-2	
			87.1	2-2.5	
			99.1	2.5-3	
			1011	3-3.5	
			1217	3.5-4	
			1341	4-4.5	
			1079	4.5-5	
5	10	2.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-105 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	5.00	107	0-0.5	0-4' Brown fine to medium silty sands with some subround pebbles, poorly sorted, dry
			110	0.5-1	
			112	1-1.5	
			101	1.5-2	
			121	2-2.5	
			147	2.5-3	
			107	3-3.5	
			114	3.5-4	
			111	4-4.5	4-5' Black fine to medium sands
			121	4.5-5	
5	10	2.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-106 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	1.1	0-0.5	0-5' Brown black fine to medium sands with subround to subangular pebbles, poorly sorted, dry
			1.4	0.5-1	
			2.6	1-1.5	
			9.7	1.5-2	
			2.7	2-2.5	
			4.8	2.5-3	
			3.9	3-3.5	
			2.7	3.5-4	
			4.1	4-4.5	
			6.9	4.5-5	
5	10	2.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	

10	13			12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-107 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	1.1	0-0.5	0-5' Black fine to medium silty sands with some subround to subangular pebbles, poorly sorted, dry
			1.4	0.5-1	
			1.8	1-1.5	
			2.1	1.5-2	
			0.7	2-2.5	
			1.2	2.5-3	
			1.1	3-3.5	
			0.7	3.5-4	
			1.9	4-4.5	
			1.7	4.5-5	
5	10	2.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-201 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/16/2022 Drilling Completed 3/16/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
8.5-9	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
			1.1	0-0.5	0-4" Asphalt drive
			2.6	0.5-1	
			10.7	1-1.5	
			107	1.5-2	
0	5	4.00	361	2-2.5	4"-4' Black fine silty sands with subround to subangular pebbles, poorly sorted, dry
			247	2.5-3	
			307	3-3.5	
			325	3.5-4	
			340	4-4.5	4-5' Concrete fragments
			407	4.5-5	
			381	5-5.5	
			330	5.5-6	
			321	6-6.5	
			407	6.5-7	
			491	7-7.5	
5	10	4.00	387	7.5-8	5-10' Brown to black fine silty sands with concrete fragments, poorly sorted, wet at 9'
			420	8-8.5	
			591	8.5-9	
			381	9-9.5	
			320	9.5-10	
				10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
10	15			12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-202 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/16/2022 Drilling Completed 3/16/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
8.5-9	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
			1.1	0-0.5	0-4" Asphalt drive
			2.1	0.5-1	
			40.1	1-1.5	
			107	1.5-2	
			289	2-2.5	
0	5	4.00	421	2.5-3	4"-5' Black fine silty sands with subround to subangular pebbles, poorly sorted, dry
			801	3-3.5	
			921	3.5-4	
			524	4-4.5	
			907	4.5-5	
			951	5-5.5	
			561	5.5-6	
			685	6-6.5	
			721	6.5-7	
			649	7-7.5	
5	10	4.00	807	7.5-8	5-10' Black fine silty sands with subround to subangular pebbles, poorly sorted, wet at 9'
			921	8-8.5	
			1074	8.5-9	
			621	9-9.5	
			407	9.5-10	
				10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
10	15			12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-203 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/16/2022 Drilling Completed 3/16/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
8.5-9	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
			0.7	0-0.5	0-4" Asphalt drive
			10.1	0.5-1	
			10.7	1-1.5	
			30.1	1.5-2	4"-3' Brown fine silty sands
			107	2-2.5	
0	5	4.00	402	2.5-3	
			306	3-3.5	
			325	3.5-4	
			501	4-4.5	
			462	4.5-5	
			301	5-5.5	
			297	5.5-6	
			384	6-6.5	
			447	6.5-7	3-10' Black fine silty sands wet at 9'
			482	7-7.5	
5	10	4.00	407	7.5-8	
			727	8-8.5	
			1001	8.5-9	
			681	9-9.5	
			420	9.5-10	
				10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
10	15			12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-204 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/16/2022 Drilling Completed 3/16/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
8.5-9	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
			10.1	0-0.5	0-4" Asphalt drive
			27.6	0.5-1	
			37.1	1-1.5	
			107	1.5-2	
			261	2-2.5	
0	5	4.00	282	2.5-3	
			311	3-3.5	
			289	3.5-4	
			346	4-4.5	
			391	4.5-5	
			307	5-5.5	4"-10' Black fine silty sands with mica fragments, poorly sorted, wet at 9'
			324	5.5-6	
			607	6-6.5	
			511	6.5-7	
			407	7-7.5	
5	10	4.50	860	7.5-8	
			941	8-8.5	
			1201	8.5-9	
			821	9-9.5	
			481	9.5-10	
				10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
10	15			12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-205 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/16/2022 Drilling Completed 3/16/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
3.5-4	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0.1	0-0.5	0-4.5' Brown fine silty sands with mica fragments, wet at 4'
			0.6	0.5-1	
			1.1	1-1.5	
			4.2	1.5-2	
			9.1	2-2.5	
			10.7	2.5-3	
			66.1	3-3.5	
			187	3.5-4	
			287	4-4.5	
			640	4.5-5	4.5-5' Light greenish yellow fine silty sands, wet
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-206 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
2.5-3	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0	0-0.5	0-2" Gravel
			1.6	0.5-1	2"-2.5' Brown fine silty sands with mica fragments
			2.7	1-1.5	
			3.1	1.5-2	
			46.7	2-2.5	
			10.7	2.5-3	2.5-10' Light greenish yellow fine silty sands, wet at 3'
			0.7	3-3.5	
			1.4	3.5-4	
			1.9	4-4.5	
			6.7	4.5-5	
5	10	5.00	10.1	5-5.5	
			1.1	5.5-6	
			2.7	6-6.5	
			3.4	6.5-7	
			2.6	7-7.5	
			1.7	7.5-8	
			1.9	8-8.5	
			1.6	8.5-9	
			0.9	9-9.5	
			1.7	9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-207 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4-4.5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0	0-0.5	0-2" Gravel
			1.9	0.5-1	2"-4' Brown fine silty sands with major subangular to subround pebbles, mica fragments, poorly sorted, dry
			3.1	1-1.5	
			2.7	1.5-2	
			5.9	2-2.5	
			10.4	2.5-3	
			24.7	3-3.5	
			35.2	3.5-4	
			40.8	4-4.5	4-5' Dark grey fine silty sands with trace subround to subangular pebbles, poorly sorted, wet at 4.5'
			9.1	4.5-5	
5	10	5.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-208 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4-4.5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0.2	0-0.5	0-1" Dark brown medium sands
			0	0.5-1	1"-2.5' Light brown fine to medium silty sands with subround to subangular pebbles, poorly sorted, dry
			0	1-1.5	
			0	1.5-2	
			0	2-2.5	
			0	2.5-3	2.5-3' Concrete
			0	3-3.5	3-5' Black fine silty sands with mica fragments, wet at 4.5'
			0	3.5-4	
			0	4-4.5	
			0	4.5-5	
5	10	5.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-209 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
3.5-4	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
			0.3	0-0.5	0-2" Gravels
			0	0.5-1	2"-4' Dark brown fine silty sands with mica fragments, poorly sorted, dry
			0	1-1.5	
			0.1	1.5-2	
0	5	3.50	0.1	2-2.5	
			1.6	2.5-3	
			1.7	3-3.5	
			1.9	3.5-4	
			0	4-4.5	
			0.7	4.5-5	
			0.1	5-5.5	4-10' Green yellow fine silty sands, wet at 4'
			0	5.5-6	
			0	6-6.5	
			0	6.5-7	
5	10	5.00	0	7-7.5	
			0	7.5-8	
			0	8-8.5	
			0	8.5-9	
			0	9-9.5	
			0	9.5-10	
				10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
10	15			12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-210 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4-4.5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0	0-0.5	0-2" Gravels
			0	0.5-1	2"-1' Brick material
			0	1-1.5	1-5' Brown silty clays, wet at 4.5'
			0	1.5-2	
			0	2-2.5	
			0	2.5-3	
			0	3-3.5	
			0	3.5-4	
			0	4-4.5	
			0	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-211 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
3.5-4	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.50	0	0-0.5	0-2" Gravels
			0	0.5-1	2"-3' Brick and gravel
			0	1-1.5	
			0	1.5-2	
			0	2-2.5	
			0	2.5-3	
			0	3-3.5	3-5' Brown fine silty sands with clay, wet at 4 '
			0	3.5-4	
			0	4-4.5	
			0	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-212 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4.5-5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.50	0.1	0-0.5	0-2" Brown medium sands
			0.1	0.5-1	2"-3' Gravels
			0	1-1.5	
			0	1.5-2	
			0	2-2.5	
			0	2.5-3	
			0	3-3.5	3-5' Brown fine silty sands with mica, poorly sorted, wet at 5 '
			0	3.5-4	
			0	4-4.5	
			0	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-213 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4-4.5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0	0-0.5	0-2" Gravels
			0	0.5-1	2"-2' Brown fine silty sands with mica, poorly sorted, dry
			0	1-1.5	
			0.7	1.5-2	
			8.1	2-2.5	2-5' Black silty clays with trace sub angular gravels, poorly sorted, wet at 4.5'
			5.1	2.5-3	
			3.7	3-3.5	
			9.2	3.5-4	
			18.7	4-4.5	
			10.1	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-214 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4-4.5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.50	0	0-0.5	0-2" Gravels
			0	0.5-1	2"-4.5' Brown fine silty sands with some subround to subangular pebbles, mica, poorly sorted, wet at 4.5'
			0	1-1.5	
			0	1.5-2	
			0	2-2.5	
			1.1	2.5-3	
			0.2	3-3.5	
			1.7	3.5-4	
			5.8	4-4.5	
			2.1	4.5-5	4.5-5' Black silty sands with clay
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-215 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4.5-5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.50	0	0-0.5	0-2" Gravels
			0	0.5-1	2"-3' Brown fine silty sands, some yellowish green coloring, poorly sorted, dry
			0	1-1.5	
			0	1.5-2	
			0.4	2-2.5	
			0.6	2.5-3	
			1.2	3-3.5	3-5' Black silty clay, wet at 5'
			2.2	3.5-4	
			6.1	4-4.5	
			11.7	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-216 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4.5-5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.50	0	0-0.5	0-2" Gravels
			0	0.5-1	2"-4' Brown fine silty sands with mica, subround to subangular pebbles, poorly sorted, wet at 4'
			0	1-1.5	
			0	1.5-2	
			0	2-2.5	
			0.7	2.5-3	
			1.2	3-3.5	
			6.6	3.5-4	
			1.4	4-4.5	4-5' Green yellow fine silty sands
			0.5	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-217 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 15 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
8.5-9	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
			10.7	0-0.5	0-4" Asphalt drive
			25.2	0.5-1	4"-15' Dark grey to black fine silty sands with gravel, wet at 9'
			80	1-1.5	
			84	1.5-2	
			91	2-2.5	
0	5	3.50	80	2.5-3	
			60	3-3.5	
			261	3.5-4	
			381	4-4.5	
			497	4.5-5	
			501	5-5.5	
			162	5.5-6	
			149	6-6.5	
			211	6.5-7	
			207	7-7.5	
5	10	5.00	721	7.5-8	
			841	8-8.5	
			981	8.5-9	
			649	9-9.5	
			790	9.5-10	
			321	10-10.5	
			317	10.5-11	
			201	11-11.5	
			99	11.5-12	
10	15	5.00	107	12-12.5	
			47	12.5-13	
			38	13-13.5	
			21	13.5-14	
			18	14-14.5	
			20	14.5-15	

ARCADIS

Sample Log

Well/Boring 2C40_P2 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 2/17/21 Drilling Completed 2/17/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jack

Prepared By M.Hilinski Hammer Weight _____ Hammer Drop _____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-4' Orange Brown - gray silty	0/0
				Sands w/ Clay	0/0
				4'-5' Orange Brn fine silty sand	0/0
					0/0
					0/0
5	10	5		5-8 Orange Brown silty sand	0/0
				8-10 Brn fine silty sand	0/0
				wtd @ 10	0/0
					0/0
					0/0
					0/0

9.5-10 Ind
9.5

ARCADIS

Sample Log

Well/Boring: 1CL43-PF

Project Name and No.: Alliance 51st Street

Site Location: Phila, Pa

Drilling Started: 3/17/17

Drilling Completed: 3/17/17

Total Depth Drilled: 8 feet

Hole Diameter: 2 inches

Sampling Interval: _____ feet

Length and Diameter of Sampling Device: 5'x 1.75"

Type of Sampling Device: Macrocore

Drilling Method: Direct Push

Drilling Fluid Used: None

Drilling Contractor: Hawk

Driller: Andy

Helper: Josh

Prepared By: M.Hilinski

Hammer Weight: _____

Hammer Drop: \ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	4		0-1' orange brown - silty fine sand	0/0
				w/ clay	0/0
				1-4 orange brown	0/0
					0/0
					0/0
4	8	4		silty sand	0/0
					0/0
					0/0
					0/0
					0/0

Leg 71.8 94 Dup-1

ARCADIS

Sample Log

Well/Boring MW43-PS Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/21 Drilling Completed 3/17/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jason

Prepared By M.Hilinski Hammer Weight / Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	5		CS Black/Grey Silty	0/0
1				clay	0/0
2					0/0
3					0/0
4					0/0
5	10	4		SAA, wet @ 8	0/0
					0/0
					0/0
					0/0
					0/0

Temp 75-S GC

ARCADIS

Sample Log

Well/Boring SB-304 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/12 Drilling Completed 3/17/12

Total Depth Drilled 8 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight 1 Hammer Drop 1 inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	4		Cm 4 Gray-Blk f gritty Sand	0/0
				w/ concrete fragments	0/0
				4-8 orange brown f-m silty Sa	0/0
					0/0
					0/0
4	8	3.5		f-c SAL	0/0
				wet @ 8	0/0
					0/0
					0/0
					0/0

Lead 2.5-3 7.5-8

ARCADIS

Sample Log

Well/Boring SB-29 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/21 Drilling Completed 3/17/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jake

Prepared By M.Hilinski Hammer Weight / Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-5 Brown / Black	0/0
				F silty sand w/ concrete	0/0
				NR	0/0
					0/0
					0/0
5	10	4		5-6 SM	0/0
				6-10 Brown f-m silty sand	0/0
				w/ clay hit @ 8'	0/0
					0/0
					0/0
					/

Item M

SB-3 SB-8 9211

ARCADIS

Sample Log

Well/Boring ~~GR-36~~ GR-306

Project Name and No. Alliance 51st Street

Site Location Phila, Pa

Drilling Started 2/17/21

Drilling Completed 2/17/21

Total Depth Drilled 10 feet

Hole Diameter 2 inches

Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75"

Type of Sampling Device Macrocore

Drilling Method Direct Push

Drilling Fluid Used None

Drilling Contractor Hawk

Driller Andy

Helper Jeff

Prepared By M.Hilinski

Hammer Weight /

Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-5' Black/Grey F silty Sand w/ concrete FC, Asy	0/0
					0/0
					0/0
					0/0
5	10	4.5		5-10 Orange Brown F-M silty Sand, wet @ 5'	0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0

lead

215-3

75-8

951

ARCADIS

Sample Log

Well/Boring GP-307 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 7/17/23 Drilling Completed 7/17/23

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight 1 Hammer Drop 1 inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-6" Asphalt	0/0
				6"-5' Black f-m Sand	0/0
				w/ silt, Gravel GR-SA	0/0
					0/0
					0/0
5	10	4		SAA w/ Q G	0/0
					0/-
					-/-
					0/0
					0/0

1 of 1 S.S. 6 117

ARCADIS

Sample Log

Well/Boring GR-3SB Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 2/17/23 Drilling Completed 2/17/23

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jesse

Prepared By M.Hilinski Hammer Weight / Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	4		0-6" Asphalt	0/0
				6" - 5' black/ Gray fill	0/0
				Silty Sand w/ clay FC	0/0
					0/0
					0/0
5	10	4		SAA, more Gravel	0/0
				wet @ 6'	0/0
					0/0
					0/0
					0/0

RS 5.5.6 1125

ARCADIS

Sample Log

Well/Boring SB-309 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started _____ Drilling Completed _____

Total Depth Drilled 4 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Fluid Used None

Drilling Method Direct Push

Drilling Contractor Hawk Driller _____ Helper _____

Hammer Weight _____ Hammer Drop _____ inches

Prepared By M.Hilinski

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4			0-6" Asphalt	
				6"-4' Black/Gray Fine Sand, some M, Dry, ~~Loose~~	
				Wet @ 4'	

Lab

4.0.t

111

ARCADIS

Sample Log

Well/Boring GP-310 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/21 Drilling Completed 3/17/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight ____ Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5			0-0.1 Asphalt	0/0
				0.1-5' Brick/Brown Sandy Silty Gravel	0/0
					0/0
					0/0
5	10			5-10 SAA wet@9'	0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0

Renzm /Trip

8.5-9

10 20

ARCADIS

Sample Log

Well/Boring GR-311 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 7/17/07 Drilling Completed 7/17/07

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight 1 Hammer Drop 1 inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	1			0-6" Asphalt	0/0
				6"-2' Black fine silty sand	0/0
				2'-5' Gray f-m silty sand	0/0
					0/0
					0/0
5	6			5-10 Lith @ 8	0/0
				SAA	0/0
					0/0
					0/0
					0/0

Install well RIS

7.9-8

1620

2

ARCADIS

Sample Log

Well/Boring SB-219 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/17 Drilling Completed 3/17/17

Total Depth Drilled 6 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight \ Hammer Drop \ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5			0-0.1' Asphalt	0
				0.1-5' Black Fine Sand	0
				w/ some Grit	0
				wet @ 5'	0
					0
					0
					0
					0
					0
					0
					0

1-pull

~~TPH~~ 4156 ~~TCL~~ 11cd

ARCADIS

Sample Log

Well/Boring GR-3/3 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/21 Drilling Completed 3/17/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jesse

Prepared By M.Hilinski Hammer Weight / Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	1	4		0-6" Asphalt	0/0
				6"- 5' Gray Fine Sand	0/0
					0/0
					0/0
					0/0
5	5	4.7		Sand	0/0
					0/0
					0/0
					0/0
					0/0

Jesse

7.5-8 1040 7.5-8

ARCADIS

Sample Log

Well/Boring GP-314 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/22 Drilling Completed 3/17/22

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jess

Prepared By M.Hilinski Hammer Weight / Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4	0-5	Brick fill gray	0/0
					0/0
					0/0
				Brick Gravel Log @ 8	0/0
					0/0
5	10	5			0/0
					0/0
					0/0
					0/0
					0/0
					0/0

Log GP-3 75-8 10'

ARCADIS

Sample Log

Well/Boring SB-315 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 2/11/21 Drilling Completed 2/11/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jose

Prepared By M.Hilinski Hammer Weight (Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	4		0-5 Black / Gray f silty	0/0
				Sand w/ Brick Pf	0/0
					0/0
					0/0
					0/0
5	8	4		5-10 Orange Brown f-m	1/1
				silty Sand wet @ 8	0/0
					0/0
					0/0
					0/0

Lab 2.5-3 7.5-8 TP

ARCADIS

Sample Log

Well/Boring GR-216 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/21 Drilling Completed 3/17/21

Total Depth Drilled 8 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Josh

Prepared By M.Hilinski Hammer Weight ✓ Hammer Drop ✓ inches

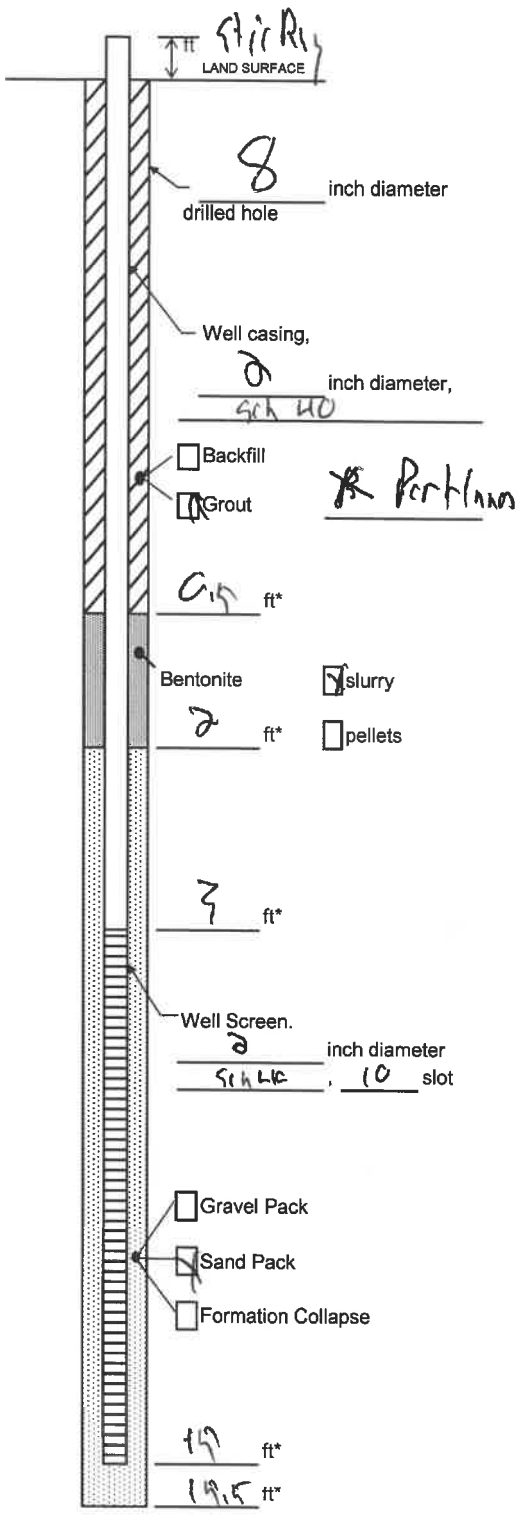
Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	4		0-1' Grey & sand, w/ gravel	0.0
				1-4 orange brown f-m sand	0.0
				sand	0.0
					0.0
					0.0
4	8	4		4-8 sand wet@8	0.0
					0.0
					0.0
					0.0
					0.0

1 of 2 0.1-7 7.2-8 93%

ARCADIS

Well Construction Log

(Unconsolidated)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.
* Depth Below Land Surface

Project Alliance 91st St Well MW-7

Town/City Phila, Pa

County Philadelphia State Pa

Permit No.

Land-Surface (LS) Elevation and Datum:

_____ feet ☐ Surveyed ☐ Estimated

Installation Date(s) 7/16/22

Drilling Method HSA

Drilling Contractor Hawk

Drilling Fluid —

Development Technique(s) and Date(s)

Purge / Surge 7/17/22

Fluid Loss During Drilling — gallons

Water Removed During Development 40 gallons

Static Depth to Water 5.07 feet below M.P.

Pumping Depth to Water varies feet below M.P.

Pumping Duration 1 hours

Yield _____ gpm Date _____

Specific Capacity _____ gpm/ft

Well Purpose Monitoring

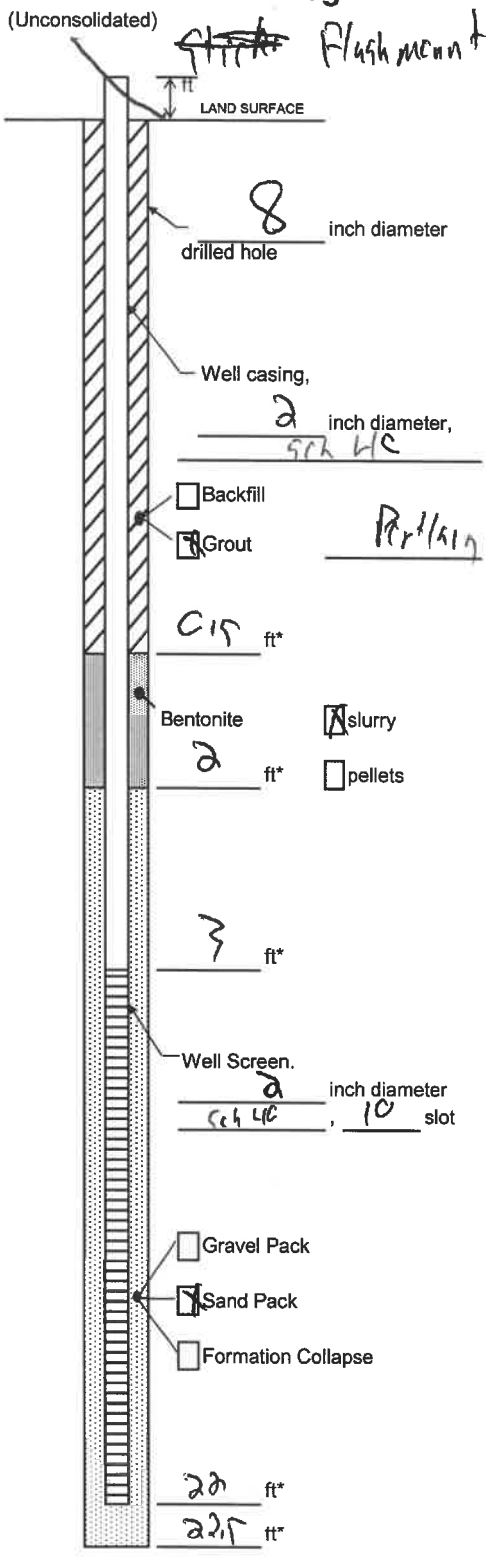
Remarks

Prepared by M. Hilinski

ARCADIS

Well Construction Log

(Unconsolidated)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.
* Depth Below Land Surface

Project Alliance 5/5t sipnet Well MW-8

Town/City ~~Phila~~ Phila, Pa

County Phila State Pa

Permit No.

Land-Surface (LS) Elevation and Datum:

feet ☐ Surveyed

☐ Estimated

Installation Date(s) 3/16/22

Drilling Method HSA

Drilling Contractor Hawk

Drilling Fluid Mud

Development Technique(s) and Date(s)

Purge / Surge 3/16/22

Fluid Loss During Drilling — gallons

Water Removed During Development 40 gallons

Static Depth to Water 4.52 feet below M.P.

Pumping Depth to Water varies feet below M.P.

Pumping Duration 1 hours

Yield gpm Date

Specific Capacity gpm/ft

Well Purpose Monitoring

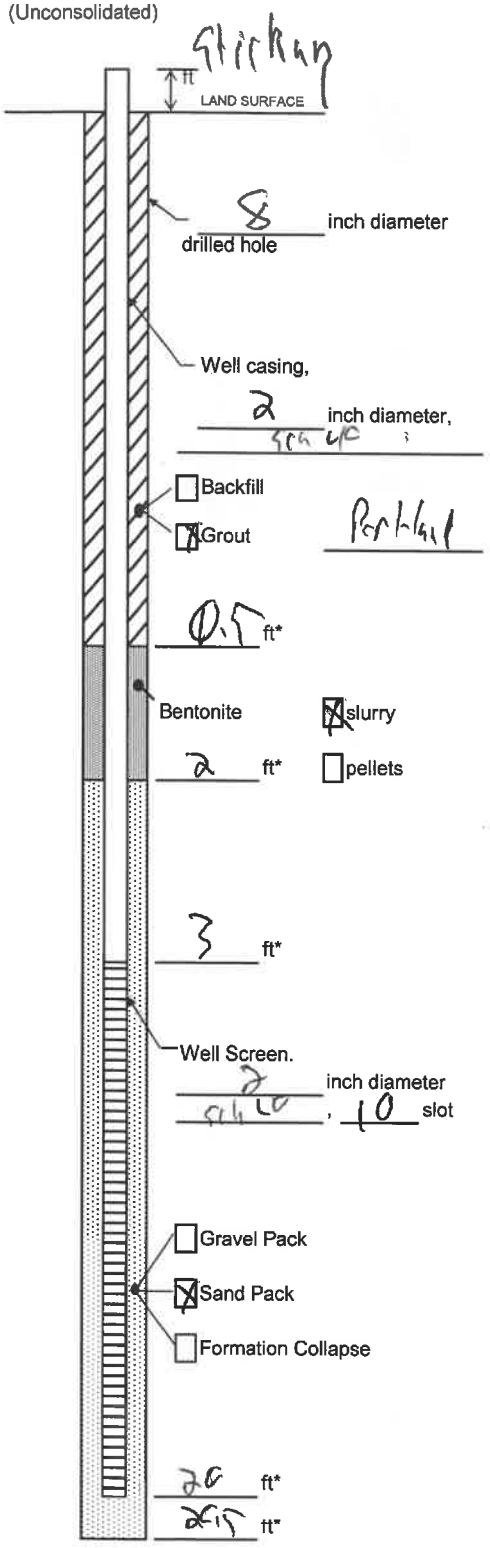
Remarks Flushmount

Prepared by M. Hilinski

ARCADIS

Well Construction Log

(Unconsolidated)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.
* Depth Below Land Surface

Project Allignce 5/5ft st Well MW-9

Town/City Philly PA

County Philly State PA

Permit No.

Land-Surface (LS) Elevation and Datum:

_____ feet ☐ Surveyed

☐ Estimated

Installation Date(s) 3/16/22

Drilling Method HSA

Drilling Contractor Hawk

Drilling Fluid Mud

Development Technique(s) and Date(s)

Purge/Surge 3/16/22

Fluid Loss During Drilling — gallons

Water Removed During Development 50 gallons

Static Depth to Water 10.26 feet below M.P.

Pumping Depth to Water Varied feet below M.P.

Pumping Duration 1 hours

Yield _____ gpm Date _____

Specific Capacity _____ gpm/ft

Well Purpose Monitoring

Remarks

Prepared by M. Hilinski

APPENDIX C

LABORATORY REPORTS

ANALYTICAL REPORT

Lab Number:	L2158069
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 91ST STREET
Project Number:	30108678.01
Report Date:	11/05/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158069-01	TW-1	WATER	PHILA, PA	10/22/21 12:50	10/22/21
L2158069-02	TW-2	WATER	PHILA, PA	10/22/21 13:25	10/22/21
L2158069-03	TW-3	WATER	PHILA, PA	10/22/21 13:35	10/22/21
L2158069-04	TW-5	WATER	PHILA, PA	10/22/21 14:00	10/22/21
L2158069-05	PIPE 22 (13-13.5)	SOIL	PHILA, PA	10/22/21 11:50	10/22/21
L2158069-06	2040-P2 (4.5-5)	SOIL	PHILA, PA	10/22/21 11:45	10/22/21
L2158069-07	941 CENTER (11-11.5)	SOIL	PHILA, PA	10/22/21 11:15	10/22/21
L2158069-08	1044-P4 (6.5-7)	SOIL	PHILA, PA	10/22/21 10:45	10/22/21
L2158069-09	FIELD BLANK	WATER	PHILA, PA	10/22/21 14:20	10/22/21
L2158069-10	TRIP BLANK	WATER	PHILA, PA	10/22/21 00:00	10/22/21
L2158069-11	DUP-1	SOIL	PHILA, PA	10/22/21 00:00	10/22/21

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2158069-05: Sample containers for for Hold Sample VOC 8260 analysis were received for the "PIPE 22 (13-13.5)" sample, but were not listed on the chain of custody. At the client's request, the analysis was not performed.

L2158069-06: Sample containers for Hold Sample for VOC 8260 analysis were received for the "2040-P2 (4.5-5)" sample, but were not listed on the chain of custody. At the client's request, the analysis was not performed.

L2158069-08: Sample containers for Hold Sample for VOC 8260 analysis were received for the "1044-P4 (6.5-7)" sample, but were not listed on the chain of custody. At the client's request, the analysis was not performed.

L2158069-11: A sample identified as "DUP-1" was received, but not listed on the Chain of Custody. At the client's request, this sample was analyzed.

Volatile Organics

L2158069-01D and -04: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Sebastian Corbin

Title: Technical Director/Representative Date: 11/05/21

ORGANICS

VOLATILES

Project Name: ALLIANCE 91ST STREET
Lab Number: L2158069
Project Number: 30108678.01
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-01 D
Client ID: TW-1
Sample Location: PHILA, PA

Date Collected: 10/22/21 12:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 15:07
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	65		ug/l	10	3.2	20
1,2,4-Trimethylbenzene	320		ug/l	50	3.8	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE 91ST STREET
Lab Number: L2158069
Project Number: 30108678.01
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-03
Client ID: TW-3
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:35
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 15:33
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	1.1	J	ug/l	2.5	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	86		70-130

Project Name: ALLIANCE 91ST STREET
Lab Number: L2158069
Project Number: 30108678.01
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-04
Client ID: TW-5
Sample Location: PHILA, PA
Date Collected: 10/22/21 14:00
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 16:00
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	0.36	J	ug/l	0.50	0.16	1
1,2,4-Trimethylbenzene	1.5	J	ug/l	2.5	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	123		70-130

Project Name: ALLIANCE 91ST STREET
Lab Number: L2158069
Project Number: 30108678.01
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-09
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 10/22/21 14:20
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 16:26
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	114		70-130

Project Name: ALLIANCE 91ST STREET
Lab Number: L2158069
Project Number: 30108678.01
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-10
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 10/22/21 00:00
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 16:53
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	119		70-130

Project Name: ALLIANCE 91ST STREET **Lab Number:** L2158069

Project Number: 30108678.01 **Report Date:** 11/05/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/02/21 11:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04,09-10 Batch: WG1566554-5					
Benzene	ND		ug/l	0.50	0.16
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	113		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2158069

Report Date: 11/05/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04,09-10 Batch: WG1566554-3 WG1566554-4								
Benzene	97		97		70-130	0		20
1,2,4-Trimethylbenzene	87		90		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	88		93		70-130
Dibromofluoromethane	106		104		70-130

SEMIVOLATILES

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-07
Client ID: 941 CENTER (11-11.5)
Sample Location: PHILA, PA

Date Collected: 10/22/21 11:15
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/04/21 06:20
Analyst: JRW
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 11/03/21 09:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		mg/kg	0.19	0.057	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	47		30-120
4-Terphenyl-d14	38		18-120

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/21 22:28
Analyst: JRW

Extraction Method: EPA 3546
Extraction Date: 11/03/21 09:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1566536-1					
Benzo(a)pyrene	ND		mg/kg	0.13	0.040

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	70		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2158069

Report Date: 11/05/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1566536-2 WG1566536-3								
Benzo(a)pyrene	80		84		40-140	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		74		25-120
Phenol-d6	75		75		10-120
Nitrobenzene-d5	68		70		23-120
2-Fluorobiphenyl	75		75		30-120
2,4,6-Tribromophenol	89		92		10-136
4-Terphenyl-d14	84		87		18-120

METALS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-02
Client ID: TW-2
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:25
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.9818	J	ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 21:25	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-05
Client ID: PIPE 22 (13-13.5)
Sample Location: PHILA, PA
Date Collected: 10/22/21 11:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1520		mg/kg	2.47	0.132	1	10/28/21 21:26	10/29/21 14:53	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-06
Client ID: 2040-P2 (4.5-5)
Sample Location: PHILA, PA
Date Collected: 10/22/21 11:45
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	2.12		mg/kg	2.07	0.111	1	10/28/21 21:26	10/29/21 14:57	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-08
Client ID: 1044-P4 (6.5-7)
Sample Location: PHILA, PA
Date Collected: 10/22/21 10:45
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	226		mg/kg	2.89	0.155	1	10/28/21 21:26	10/29/21 13:38	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-09
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/22/21 14:20
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	10/26/21 04:58	11/02/21 19:14	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 91ST STREET
Lab Number: L2158069
Project Number: 30108678.01
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-11
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 10/22/21 00:00
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Soil
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1.63	J	mg/kg	2.04	0.110	1	10/29/21 20:57	11/01/21 12:58	EPA 3050B	1,6010D	SV

Project Name: ALLIANCE 91ST STREET **Lab Number:** L2158069

Project Number: 30108678.01 **Report Date:** 11/05/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09 Batch: WG1561405-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	10/26/21 04:58	11/02/21 20:22	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-06,08 Batch: WG1564387-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	10/28/21 21:26	10/29/21 13:29	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02 Batch: WG1564853-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 19:46	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 11 Batch: WG1564921-1										
Lead, Total	0.108	J	mg/kg	2.00	0.107	1	10/29/21 20:57	11/01/21 11:39	1,6010D	SV

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1561405-2								
Lead, Total	93		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 05-06,08 Batch: WG1564387-2 SRM Lot Number: D109-540								
Lead, Total	91		-		72-128	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1564853-2								
Lead, Dissolved	98		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1564921-2 SRM Lot Number: D109-540								
Lead, Total	97		-		72-128	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1561405-3 QC Sample: L2157138-01 Client ID: MS Sample												
Lead, Total	ND	530	518.1	98		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 05-06,08 QC Batch ID: WG1564387-3 QC Sample: L2158883-01 Client ID: MS Sample												
Lead, Total	3.03J	43.2	43.5	100		-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1564853-3 QC Sample: L2158069-02 Client ID: TW-2												
Lead, Dissolved	0.9818J	530	532.8	100		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1564921-3 QC Sample: L2158960-01 Client ID: MS Sample												
Lead, Total	13.2	52.2	57.2	84		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06,08 QC Batch ID: WG1564387-4 QC Sample: L2158883-01 Client ID: DUP Sample						
Lead, Total	3.03J	3.47J	mg/kg	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1564853-4 QC Sample: L2158069-02 Client ID: TW-2						
Lead, Dissolved	0.9818J	0.9661J	ug/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1564921-4 QC Sample: L2158960-01 Client ID: DUP Sample						
Lead, Total	13.2	15.7	mg/kg	17		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-05
Client ID: PIPE 22 (13-13.5)
Sample Location: PHILA, PA

Date Collected: 10/22/21 11:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-06
Client ID: 2040-P2 (4.5-5)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/22/21 11:45
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-07
Client ID: 941 CENTER (11-11.5)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/22/21 11:15
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.5		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-08
Client ID: 1044-P4 (6.5-7)
Sample Location: PHILA, PA

Date Collected: 10/22/21 10:45
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.2		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-11
Client ID: DUP-1
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/22/21 00:00
Date Received: 10/22/21
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	11/02/21 11:10	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2158069

Report Date: 11/05/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-08 QC Batch ID: WG1562240-1 QC Sample: L2157967-05 Client ID: DUP Sample						
Solids, Total	93.2	92.7	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1566003-1 QC Sample: L2157814-03 Client ID: DUP Sample						
Solids, Total	72.1	70.7	%	2		20

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158069-01A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-01B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-01C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-02A	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2158069-03A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-03B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-03C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-04A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-04B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-04C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-05A	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-05B	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-05C	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-05D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2158069-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		PB-TI(180)
L2158069-05X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-05Y	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-05Z	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-06A	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-06B	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-06C	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-06D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2158069-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158069-06X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-06Y	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-06Z	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-07A	Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		TS(7),PA-PAH(14)
L2158069-07B	Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14)
L2158069-08A	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-08B	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-08C	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-08D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2158069-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		PB-TI(180)
L2158069-08X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-08Y	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-08Z	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-09A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-09B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-09C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-09D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020T-PPB(180)
L2158069-10A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-10B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-11A	Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		PB-TI(180)
L2158069-11X	Glass 60ml unpreserved split	A	NA		2.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10/23/21

ALPHA Job #: L2158069

Client Information

Client: Arcadis
Address: 1 Harvard Way Ste 9 Hillsborough, NH
Phone: 908-926-4400
Fax:
Email: Larry.Grant@arcadis.com

Project Information

Project Name: Allegheny Ave Phase
Project Location: Phila, PA
Project #: 30106678.01
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time

Standard: X
Rush (only if pre approved):
Due Date:
# of Days:

Deliverables

- NJ Full / Reduced
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Regulatory Requirement

- SRS Residential/Non Residential
- SRS Impact to Groundwater
- NJ Ground Water Quality Standards
- NJ IGW SPLP Leachate Criteria
- Other

Billing Information

- Same as Client Info

PO #

Site Information

Is this site impacted by Petroleum? Yes

Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
- Category 1
- Category 2

For VOC, selection is REQUIRED:
- 1,4-Dioxane
- 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
- X Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Benzene	1,2,4-trimethylbenzene	Target Lead		Total Lead	Benzo(a) Pyrene			Sample Specific Comments	Total Bottle
SBC69-01	~~TW-1~~ TW-1	10/22/21	1240	AG	MT	X	X								3
-02	TW-2		1325					X							1
-03	TW-3		1335				X								3
-04	TW-4		1400			X	X								3
-05	Pipe 22 (13-13.5)		1150	Soil						X					1
-06	2040-P2 (4.5-5)		1145							X					1
-07	941 Center (11-11.5)		1115								X				1
-08	1444-P4 (4.5-5)		1445							X					1
-09	Field Blank		1420	AG		X	X	X							4
-10	Trip Blank			AG		X	X							* Dup for Lead &	3

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	AV	~~AV~~ AV	P		A	A					
Preservative	R	R	C		A	A					

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Mitchell	10/22/21 1516		10/22/21 1516
	10/22/21 1800		10/22/21 1800
	10/22/21 20:35		10/22/21 2035
	10/23/21 0305		10/23/21 0305

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2158070
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678.01
Report Date:	11/11/21

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Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01

Lab Number: L2158070
Report Date: 11/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158070-01	TW-1	WATER	PHILA, PA	10/22/21 12:50	10/22/21
L2158070-02	TW-2	WATER	PHILA, PA	10/22/21 13:25	10/22/21
L2158070-03	TW-3	WATER	PHILA, PA	10/22/21 13:35	10/22/21
L2158070-04	TW-5	WATER	PHILA, PA	10/22/21 14:00	10/22/21

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2158070
Project Number:	30108678.01	**Report Date:**	11/11/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2158070
Project Number:	30108678.01	**Report Date:**	11/11/21

Case Narrative (continued)

Report Revision

November 11, 2021: The Volatile Organics analyte list has been amended on L2158070-01 through -04. In addition, TICs have been added.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2158070-03E and -04E: An extra sample container for Total Metals was received.

Volatile Organics

L2158070-01: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (137%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2158070-04: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

Volatile Organics by SIM

L2158070-01 and -04: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

Total Metals

L2158070-01: The sample has elevated detection limits due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 11/11/21

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-01
Client ID: TW-1
Sample Location: PHILA, PA
Date Collected: 10/22/21 12:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 15:08
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.72	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	78		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	66		ug/l	0.50	0.16	1
1,2-Dichloroethane	1.5		ug/l	0.50	0.13	1
Methyl cyclohexane	110		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-01 Date Collected: 10/22/21 12:50

Client ID: TW-1 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	95		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	0.88		ug/l	0.50	0.18	1
Ethylbenzene	79		ug/l	0.50	0.17	1
p/m-Xylene	180		ug/l	1.0	0.33	1
o-Xylene	60		ug/l	1.0	0.39	1
Xylenes, Total	240		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	35		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	390	E	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-01 Date Collected: 10/22/21 12:50

Client ID: TW-1 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	313	J	ug/l			1
Unknown Cycloalkane	13.0	J	ug/l			1
Unknown	12.2	J	ug/l			1
Heptane, 2-methyl-	13.8	NJ	ug/l			1
Hexane, 3-methyl-	16.8	NJ	ug/l			1
Octane	20.6	NJ	ug/l			1
Unknown Benzene	12.8	J	ug/l			1
Unknown Cyclohexane	20.8	J	ug/l			1
Cyclopentane, Methyl-	26.2	NJ	ug/l			1
Unknown	25.6	J	ug/l			1
Pentane, 2-methyl-	47.8	NJ	ug/l			1
Unknown Benzene	12.7	J	ug/l			1
Butane, 2-Methyl-	37.9	NJ	ug/l			1
Pentane	13.2	NJ	ug/l			1
Pentane, 3-methyl-	26.0	NJ	ug/l			1
Decane (C10)	13.8	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	**137**	Q	70-130
Dibromofluoromethane	77		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2158070
Project Number: 30108678.01
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-01
Client ID: TW-1
Sample Location: PHILA, PA
Date Collected: 10/22/21 12:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/04/21 15:08
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
4-Bromofluorobenzene	**138**	Q	70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-02
Client ID: TW-2
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:25
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 13:57
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	7.1		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	0.35	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.30	J	ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	4.0	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-02 Date Collected: 10/22/21 13:25

Client ID: TW-2 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.86		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.21	J	ug/l	0.50	0.17	1
p/m-Xylene	0.71	J	ug/l	1.0	0.33	1
o-Xylene	0.41	J	ug/l	1.0	0.39	1
Xylenes, Total	1.1	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	5.8		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	0.96	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.58	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	0.33	J	ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-02 Date Collected: 10/22/21 13:25

Client ID: TW-2 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	342	J	ug/l			1
Unknown Aromatic	18.4	J	ug/l			1
Unknown Aromatic	55.2	J	ug/l			1
Unknown Benzene	20.7	J	ug/l			1
Pentane, 2,3,3-trimethyl-	17.0	NJ	ug/l			1
Unknown Alkane	16.4	J	ug/l			1
Unknown Benzene	22.2	J	ug/l			1
Benzene, 1-propenyl-	48.9	NJ	ug/l			1
Unknown	14.3	J	ug/l			1
Unknown	14.1	J	ug/l			1
Unknown Aromatic	16.5	J	ug/l			1
Unknown Naphthalene	15.6	J	ug/l			1
Pentane, 2,3,4-trimethyl-	10.7	NJ	ug/l			1
Unknown Benzene	9.77	J	ug/l			1
Unknown Naphthalene	22.4	J	ug/l			1
Unknown Benzene	40.0	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2158070
Project Number: 30108678.01
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-02
Client ID: TW-2
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:25
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/04/21 13:57
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-03
Client ID: TW-3
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:35
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 14:21
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.45	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	7.1	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.24	J	ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	8.6	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-03 Date Collected: 10/22/21 13:35

Client ID: TW-3 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.42	J	ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	1.6		ug/l	0.50	0.18	1
Ethylbenzene	22		ug/l	0.50	0.17	1
p/m-Xylene	1.5		ug/l	1.0	0.33	1
o-Xylene	0.57	J	ug/l	1.0	0.39	1
Xylenes, Total	2.1	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	4.3		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	1.4	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	0.20	J	ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.85	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-03 Date Collected: 10/22/21 13:35

Client ID: TW-3 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	199	J	ug/l			1
Unknown Alkane	21.1	J	ug/l			1
Unknown Benzene	6.58	J	ug/l			1
Benzene, 1-propenyl-	20.1	NJ	ug/l			1
Benzene, Propyl-	13.4	NJ	ug/l			1
Unknown Cycloalkane	7.73	J	ug/l			1
Unknown Aromatic	8.91	J	ug/l			1
Unknown	20.9	J	ug/l			1
Unknown Alkane	27.2	J	ug/l			1
Unknown Aromatic	7.62	J	ug/l			1
Unknown Aromatic	14.9	J	ug/l			1
Hexane, 3-methyl-	6.81	NJ	ug/l			1
Pentane, 2,3,4-trimethyl-	14.5	NJ	ug/l			1
Unknown	10.9	J	ug/l			1
Unknown Benzene	12.3	J	ug/l			1
Unknown Aromatic	5.75	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-03
Client ID: TW-3
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:35
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/04/21 14:21
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
4-Bromofluorobenzene	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-04
Client ID: TW-5
Sample Location: PHILA, PA
Date Collected: 10/22/21 14:00
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 14:45
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	13		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.32	J	ug/l	0.50	0.16	1
1,2-Dichloroethane	0.21	J	ug/l	0.50	0.13	1
Methyl cyclohexane	0.41	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-04 Date Collected: 10/22/21 14:00

Client ID: TW-5 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.2		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.20	J	ug/l	0.50	0.17	1
p/m-Xylene	0.69	J	ug/l	1.0	0.33	1
o-Xylene	0.49	J	ug/l	1.0	0.39	1
Xylenes, Total	1.2	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	1.3	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-04 Date Collected: 10/22/21 14:00

Client ID: TW-5 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	179	J	ug/l			1
Unknown Alkane	13.4	J	ug/l			1
Unknown	15.8	J	ug/l			1
Unknown Alkane	5.31	J	ug/l			1
Unknown Alkane	5.72	J	ug/l			1
Unknown Alkane	5.93	J	ug/l			1
Unknown Alkane	28.7	J	ug/l			1
Unknown Benzene	7.03	J	ug/l			1
Unknown Naphthalene	8.89	J	ug/l			1
Unknown Aromatic	6.11	J	ug/l			1
Undecane, 2,6-dimethyl-	15.2	NJ	ug/l			1
Unknown Alkane	38.6	J	ug/l			1
Unknown Benzene	5.50	J	ug/l			1
Unknown Alkane	6.00	J	ug/l			1
Unknown Aromatic	5.33	J	ug/l			1
Unknown Alkane	11.2	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-04
Client ID: TW-5
Sample Location: PHILA, PA

Date Collected: 10/22/21 14:00
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/04/21 14:45
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
4-Bromofluorobenzene	100		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:13
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1567476-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:13
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1567476-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:13
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1567476-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/04/21 08:13
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-04 Batch: WG1567480-5					
1,4-Dioxane	1.1	J	ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
4-Bromofluorobenzene	99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01

Lab Number: L2158070
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1567476-3 WG1567476-4								
Dichlorodifluoromethane	92		91		36-147	1		20
Chloromethane	110		100		64-130	10		20
Vinyl chloride	97		96		55-140	1		20
Bromomethane	69		69		39-139	0		20
Chloroethane	91		92		55-138	1		20
Trichlorofluoromethane	100		100		62-150	0		20
1,1-Dichloroethene	94		94		61-145	0		20
Carbon disulfide	96		96		51-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	99		97		70-130	2		20
Methylene chloride	92		89		70-130	3		20
Acetone	140		140		58-148	0		20
trans-1,2-Dichloroethene	94		93		70-130	1		20
Methyl Acetate	110		110		70-130	0		20
Methyl tert butyl ether	97		98		63-130	1		20
1,1-Dichloroethane	99		98		70-130	1		20
cis-1,2-Dichloroethene	93		92		70-130	1		20
Cyclohexane	110		110		70-130	0		20
Bromochloromethane	96		96		70-130	0		20
Chloroform	97		95		70-130	2		20
Carbon tetrachloride	100		100		63-132	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
2-Butanone	120		120		63-138	0		20
Benzene	95		95		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01

Lab Number: L2158070
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1567476-3 WG1567476-4								
1,2-Dichloroethane	98		99		70-130	1		20
Methyl cyclohexane	98		100		70-130	2		20
Trichloroethene	99		98		70-130	1		20
1,2-Dichloropropane	100		100		70-130	0		20
Bromodichloromethane	92		92		67-130	0		20
cis-1,3-Dichloropropene	92		92		70-130	0		20
Toluene	97		92		70-130	5		20
Tetrachloroethene	96		91		70-130	5		20
4-Methyl-2-pentanone	100		98		59-130	2		20
trans-1,3-Dichloropropene	88		88		70-130	0		20
1,1,2-Trichloroethane	93		89		70-130	4		20
Dibromochloromethane	95		93		63-130	2		20
1,2-Dibromoethane	92		92		70-130	0		20
2-Hexanone	120		110		57-130	9		20
Chlorobenzene	93		93		75-130	0		20
Ethylbenzene	99		97		70-130	2		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
Styrene	100		100		70-130	0		20
Bromoform	96		97		54-136	1		20
Isopropylbenzene	98		94		70-130	4		20
1,2,4-Trimethylbenzene	96		92		70-130	4		20
1,3-Dichlorobenzene	95		94		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.01

Lab Number: L2158070

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1567476-3 WG1567476-4								
1,4-Dichlorobenzene	96		93		70-130	3		20
1,2-Dichlorobenzene	97		92		70-130	5		20
1,2-Dibromo-3-chloropropane	99		94		41-144	5		20
1,2,4-Trichlorobenzene	93		93		70-130	0		20
1,2,3-Trichlorobenzene	94		94		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	95		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.01

Lab Number: L2158070

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG1567480-3 WG1567480-4								
1,4-Dioxane	120		110		70-130	9		25
1,1,2,2-Tetrachloroethane	100		94		70-130	6		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		101		70-130
4-Bromofluorobenzene	99		100		70-130

METALS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-01
Client ID: TW-1
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/22/21 12:50
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	2.126	J	ug/l	5.000	1.715	5	11/01/21 10:21	11/03/21 17:56	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-02
Client ID: TW-2
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:25
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	9.312		ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 21:31	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-03
Client ID: TW-3
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:35
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.7910	J	ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 21:36	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-04
Client ID: TW-5
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/22/21 14:00
Date Received: 10/22/21
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.3553	J	ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 21:42	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1564301-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	11/01/21 10:21	11/03/21 11:11	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02-04 Batch: WG1564853-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 19:46	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.01

Lab Number: L2158070

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1564301-2								
Lead, Total	102		-		80-120	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 02-04 Batch: WG1564853-2								
Lead, Dissolved	98		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01

Lab Number: L2158070
Report Date: 11/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1564301-3 QC Sample: L2157658-04 Client ID: MS Sample												
Lead, Total	ND	530	510.7	96		-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG1564853-3 QC Sample: L2158069-02 Client ID: MS Sample												
Lead, Dissolved	0.9818J	530	532.8	100		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01

Lab Number: L2158070
Report Date: 11/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG1564853-4 QC Sample: L2158069-02 Client ID: DUP Sample						
Lead, Dissolved	0.9818J	0.9661J	ug/l	NC		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01

Lab Number: L2158070
Report Date: 11/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158070-01A	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-01B	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-01C	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-01D	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		PB-6020T-PPB(180)
L2158070-02A	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-02B	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-02C	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-02D	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2158070-03A	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-03B	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-03C	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-03D	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2158070-03E	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		-
L2158070-04A	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-04B	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-04C	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-04D	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2158070-04E	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2158070
Project Number:	30108678.01	**Report Date:**	11/11/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2158070
Project Number:	30108678.01	**Report Date:**	11/11/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2158070
Project Number:	30108678.01	**Report Date:**	11/11/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2158070
Project Number:	30108678.01	**Report Date:**	11/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 1 of 1

Date Rec'd in Lab: 10/23/21

ALPHA Job #: L2158070

Client Information
Client: Arnold
Address: 1 Harvard way Ste 5
Hillsborough, NJ
Phone: 908-526-1155
Fax:
Email: Larry.Brunt@arcadis.com

Project Information
Project Name: Alpine 5th Street
Project Location: Phila, Pa
Project #: 30108675.01
(Use Project name as Project #)
Project Manager: Larry Brunt
ALPHAQuote #:

Turn-Around Time
Standard: ☒
Rush (only if pre approved): ☐
Due Date:
# of Days:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

ANALYSIS

Sample Filtration
☒ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	Lead	Total Bottle	Sample Specific Comments
58070-01	TW-1	10/22/21	1240	AQ	MJ	X	X	4	
-02	TW-2		1325			X	X	4	
-03	TW-3		1325			X	X	4	
-04	TW-5		1400			X	X	4	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	AV	P
Preservative	P	C

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilliard	10/22/21 1516		10/22/21 1516
	10/22/21 1800		10/22/21 1800
	10/22/21 20:35		10/22/21 2014
	10/23/21 0305		10/23/21 0050
			10/23/21 0305

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

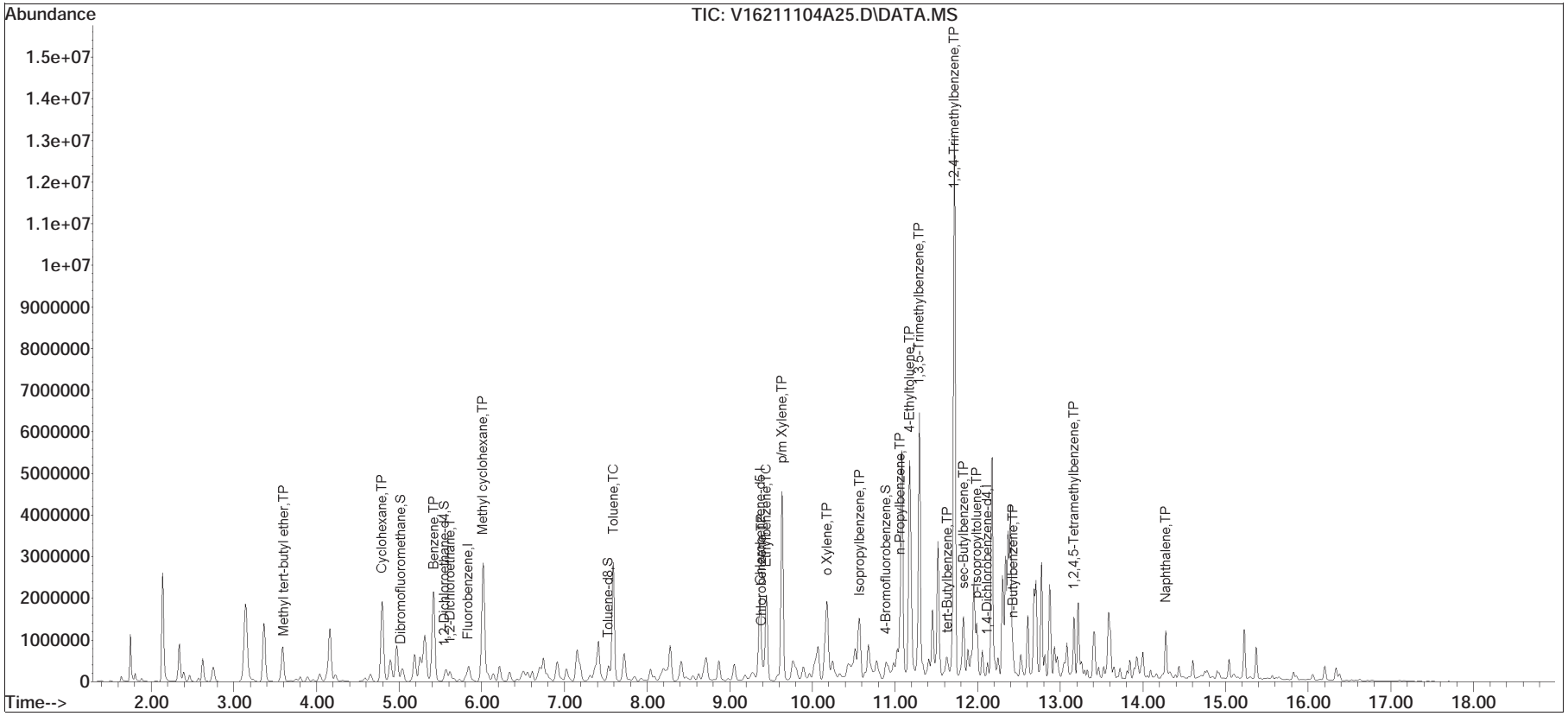
Form No: 01-14 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA116\2021\211104\
Data File : V16211104A25.D
Acq On : 04 Nov 2021 03:08 pm
Operator : VOA116:MM
Sample : L2158070-01,31,10,10,,A
Misc : WG1567476,ICAL18361
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 05 13:19:49 2021
Quant Method : I:\VOLATILES\VOA116\2021\211104\V116_211006_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 09:42:44 2021
Response via : Initial Calibration

Sub List : 8260-SIMFULL - 8260 -Curve minus 1,4-dioxane, iodomethane ,acrolein

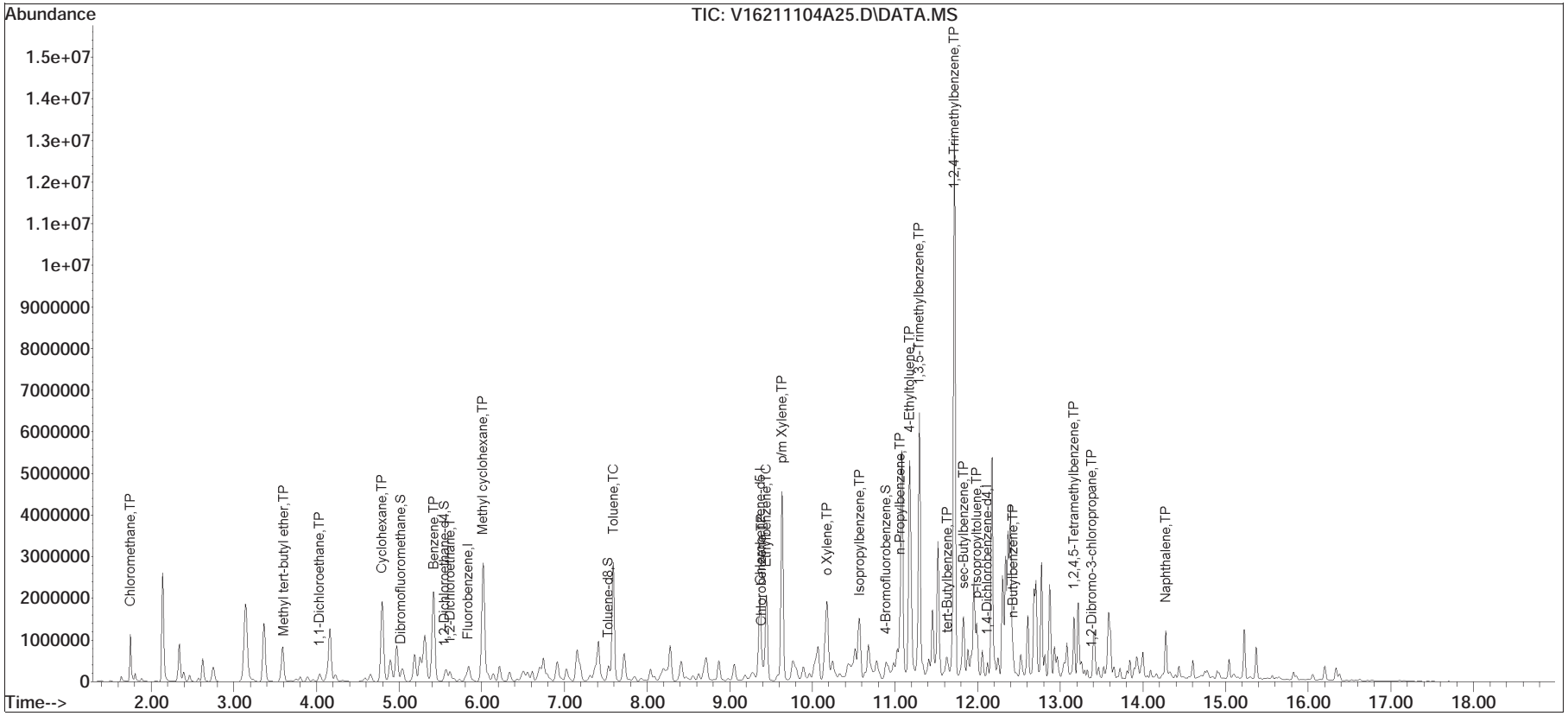


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA116\2021\211104\
Data File : V16211104A25.D
Acq On : 04 Nov 2021 03:08 pm
Operator : VOA116:MM
Sample : L2158070-01,31,10,10,,A
Misc : WG1567476,ICAL18361
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 05 05:07:58 2021
Quant Method : I:\VOLATILES\VOA116\2021\211104\V116_211006_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 09:42:44 2021
Response via : Initial Calibration

Sub List : 8260-SIMFULL - 8260 -Curve minus 1,4-dioxane, iodomethane ,acrolein



ANALYTICAL REPORT

Lab Number:	L2158499
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE-S. 51ST STREET
Project Number:	30108678
Report Date:	11/11/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678

Lab Number: L2158499
Report Date: 11/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158499-01	MW-002	WATER	PHILADELPHIA	10/25/21 11:35	10/26/21
L2158499-02	MW-001	WATER	PHILADELPHIA	10/25/21 12:35	10/26/21
L2158499-03	MW-003	WATER	PHILADELPHIA	10/25/21 14:05	10/26/21
L2158499-04	MW-004	WATER	PHILADELPHIA	10/25/21 16:00	10/26/21
L2158499-05	DUP-1	WATER	PHILADELPHIA	10/25/21 00:00	10/26/21
L2158499-06	FIELD BLANK	WATER	PHILADELPHIA	10/25/21 12:00	10/26/21
L2158499-07	TRIP BLANK	WATER	PHILADELPHIA	10/25/21 00:00	10/26/21

Project Name:	ALLIANCE-S. 51ST STREET	**Lab Number:**	L2158499
Project Number:	30108678	**Report Date:**	11/11/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499
Project Number: 30108678 **Report Date:** 11/11/21

Case Narrative (continued)

Report Revision

November 11, 2021: The Volatile Organics analyte list has been amended on all submitted samples. The Semivolatile Organics analyte list has been amended on L2158499-03 and -04. In addition, Volatile Organics TICs have been added.

Report Submission

November 05, 2021: This final report includes the results of the Semivolatile Organics analysis performed on L2158499-03 and -04.

November 02, 2021: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2158499-04: The pH of the sample was greater than two; however, the sample was analyzed within the method required holding time.

Semivolatile Organics

L2158499-03 and -04: The sample was extracted with the method required holding time exceeded.

Semivolatile Organics by SIM

L2158499-03 and -04: The sample was extracted with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 11/11/21

ORGANICS

VOLATILES

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-01 Date Collected: 10/25/21 11:35
Client ID: MW-002 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 09:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	3.8	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	2.1		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	3.2	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	3.1		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	2.5	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-01 Date Collected: 10/25/21 11:35

Client ID: MW-002 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.4		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.45	J	ug/l	0.50	0.17	1
p/m-Xylene	2.0		ug/l	1.0	0.33	1
o-Xylene	4.4		ug/l	1.0	0.39	1
Xylenes, Total	6.4		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.38	J	ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	3.0		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-01 Date Collected: 10/25/21 11:35

Client ID: MW-002 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	24.4	J	ug/l			1
Unknown Aromatic	1.32	J	ug/l			1
Unknown Benzene	2.69	J	ug/l			1
Cyclopentane, Methyl-	2.10	NJ	ug/l			1
Unknown	1.89	J	ug/l			1
Unknown Benzene	1.27	J	ug/l			1
Unknown Benzene	4.10	J	ug/l			1
Indane	1.70	NJ	ug/l			1
Naphthalene	2.44	NJ	ug/l			1
Butane, 2-Methyl-	2.07	NJ	ug/l			1
Unknown Benzene	1.84	J	ug/l			1
Unknown Aromatic	1.57	J	ug/l			1
Unknown Benzene	1.41	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-01 Date Collected: 10/25/21 11:35
Client ID: MW-002 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 09:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
4-Bromofluorobenzene	91		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-02 Date Collected: 10/25/21 12:35
Client ID: MW-001 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 10:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	0.27	J	ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	6.3	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.91		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-02 Date Collected: 10/25/21 12:35

Client ID: MW-001 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.71	J	ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	1.8		ug/l	1.0	0.33	1
o-Xylene	0.42	J	ug/l	1.0	0.39	1
Xylenes, Total	2.2	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	1.1		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	0.30	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-02 Date Collected: 10/25/21 12:35

Client ID: MW-001 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	245	J	ug/l			1
Benzene, butyl-	11.4	NJ	ug/l			1
Unknown Aromatic	9.66	J	ug/l			1
Butane, 2-Methyl-	9.26	NJ	ug/l			1
Pentane, 2,3-dimethyl-	11.0	NJ	ug/l			1
Unknown Aromatic	17.9	J	ug/l			1
Butane, 2,3-Dimethyl-	18.1	NJ	ug/l			1
Indane	26.8	NJ	ug/l			1
Unknown	18.7	J	ug/l			1
Unknown Benzene	11.7	J	ug/l			1
Unknown Aromatic	8.17	J	ug/l			1
Unknown Aromatic	18.7	J	ug/l			1
Unknown Benzene	10.1	J	ug/l			1
Unknown Benzene	30.1	J	ug/l			1
Unknown Aromatic	22.9	J	ug/l			1
Unknown Cycloalkene	21.0	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	90		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-02 Date Collected: 10/25/21 12:35
Client ID: MW-001 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 10:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
4-Bromofluorobenzene	103		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03 Date Collected: 10/25/21 14:05
Client ID: MW-003 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 10:27
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	2.5	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.36	J	ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03 Date Collected: 10/25/21 14:05

Client ID: MW-003 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds					
Total TIC Compounds	1.31	J	ug/l		1
Unknown	1.31	J	ug/l		1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03 Date Collected: 10/25/21 14:05

Client ID: MW-003 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03 Date Collected: 10/25/21 14:05
Client ID: MW-003 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 10:27
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
4-Bromofluorobenzene	96		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04 Date Collected: 10/25/21 16:00
Client ID: MW-004 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 10:51
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	14		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04 Date Collected: 10/25/21 16:00

Client ID: MW-004 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds					
Total TIC Compounds	1.88	J	ug/l		1
Unknown	1.88	J	ug/l		1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04 Date Collected: 10/25/21 16:00

Client ID: MW-004 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04 Date Collected: 10/25/21 16:00
Client ID: MW-004 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 10:51
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	96		70-130

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-05
Client ID: DUP-1
Sample Location: PHILADELPHIA
Date Collected: 10/25/21 00:00
Date Received: 10/26/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 11:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	3.2	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.35	J	ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-05 Date Collected: 10/25/21 00:00

Client ID: DUP-1 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds					
Total TIC Compounds	1.23	J	ug/l		1
Unknown	1.23	J	ug/l		1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-05 Date Collected: 10/25/21 00:00

Client ID: DUP-1 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-05 Date Collected: 10/25/21 00:00
Client ID: DUP-1 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 11:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
4-Bromofluorobenzene	96		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-06 Date Collected: 10/25/21 12:00
Client ID: FIELD BLANK Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 07:40
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-06 Date Collected: 10/25/21 12:00

Client ID: FIELD BLANK Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-06 Date Collected: 10/25/21 12:00
Client ID: FIELD BLANK Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 07:40
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-07 Date Collected: 10/25/21 00:00
Client ID: TRIP BLANK Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 07:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.5	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	0.63	J	ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-07 Date Collected: 10/25/21 00:00

Client ID: TRIP BLANK Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	108		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-07 Date Collected: 10/25/21 00:00
Client ID: TRIP BLANK Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 07:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
4-Bromofluorobenzene	95		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 05:18
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07 Batch: WG1565868-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/01/21 05:18
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1565885-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/01/21 05:18
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1565885-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/01/21 05:18
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1565885-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET

Project Number: 30108678

Lab Number: L2158499

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07 Batch: WG1565868-3 WG1565868-4								
1,4-Dioxane	88		81		70-130	8		25
1,1,2,2-Tetrachloroethane	93		95		70-130	2		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
4-Bromofluorobenzene	96		94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678

Lab Number: L2158499
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1565885-3 WG1565885-4								
Dichlorodifluoromethane	77		75		36-147	3		20
Chloromethane	99		95		64-130	4		20
Vinyl chloride	97		95		55-140	2		20
Bromomethane	110		100		39-139	10		20
Chloroethane	96		98		55-138	2		20
Trichlorofluoromethane	110		110		62-150	0		20
1,1-Dichloroethene	96		92		61-145	4		20
Carbon disulfide	97		93		51-130	4		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		100		70-130	0		20
Methylene chloride	94		92		70-130	2		20
Acetone	110		120		58-148	9		20
trans-1,2-Dichloroethene	97		94		70-130	3		20
Methyl Acetate	110		110		70-130	0		20
Methyl tert butyl ether	82		85		63-130	4		20
1,1-Dichloroethane	100		100		70-130	0		20
cis-1,2-Dichloroethene	96		97		70-130	1		20
Cyclohexane	110		110		70-130	0		20
Bromochloromethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
2-Butanone	110		110		63-138	0		20
Benzene	97		97		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678

Lab Number: L2158499
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1565885-3 WG1565885-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	96		96		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Bromodichloromethane	97		98		67-130	1		20
cis-1,3-Dichloropropene	88		90		70-130	2		20
Toluene	100		100		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
4-Methyl-2-pentanone	83		89		59-130	7		20
trans-1,3-Dichloropropene	87		88		70-130	1		20
1,1,2-Trichloroethane	96		94		70-130	2		20
Dibromochloromethane	96		99		63-130	3		20
1,2-Dibromoethane	90		93		70-130	3		20
2-Hexanone	91		95		57-130	4		20
Chlorobenzene	100		97		75-130	3		20
Ethylbenzene	100		100		70-130	0		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	100		100		70-130	0		20
Styrene	105		105		70-130	0		20
Bromoform	89		95		54-136	7		20
Isopropylbenzene	90		94		70-130	4		20
1,2,4-Trimethylbenzene	92		94		70-130	2		20
1,3-Dichlorobenzene	96		97		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET

Project Number: 30108678

Lab Number: L2158499

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1565885-3 WG1565885-4								
1,4-Dichlorobenzene	95		97		70-130	2		20
1,2-Dichlorobenzene	93		96		70-130	3		20
1,2-Dibromo-3-chloropropane	85		90		41-144	6		20
1,2,4-Trichlorobenzene	84		88		70-130	5		20
1,2,3-Trichlorobenzene	85		90		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	93		92		70-130
Dibromofluoromethane	100		99		70-130

SEMIVOLATILES

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03
Client ID: MW-003
Sample Location: PHILADELPHIA

Date Collected: 10/25/21 14:05
Date Received: 10/26/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/04/21 14:33
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		ug/l	5.0	0.53	1
Phenol	ND		ug/l	5.0	0.57	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Acetophenone	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
Nitrobenzene	ND		ug/l	1.4	0.77	1
Isophorone	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	5.0	0.85	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
Naphthalene	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	3.7	1.1	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Caprolactam	ND		ug/l	10	3.3	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.44	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Biphenyl	ND		ug/l	2.0	0.46	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03 Date Collected: 10/25/21 14:05

Client ID: MW-003 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		ug/l	2.0	0.46	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
Acenaphthene	ND		ug/l	2.0	0.53	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Fluorene	ND		ug/l	2.0	0.41	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Atrazine	ND		ug/l	3.0	0.76	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Anthracene	ND		ug/l	2.0	0.33	1
Carbazole	ND		ug/l	2.0	0.49	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Fluoranthene	ND		ug/l	2.0	0.26	1
Pyrene	ND		ug/l	2.0	0.28	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
Chrysene	ND		ug/l	2.0	0.34	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	47		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	59		41-149

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03
Client ID: MW-003
Sample Location: PHILADELPHIA

Date Collected: 10/25/21 14:05
Date Received: 10/26/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/04/21 12:29
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02	1
n-Nitrosodi-n-propylamine	ND		ug/l	0.10	0.01	1
Hexachloroethane	ND		ug/l	0.20	0.06	1
Hexachlorobenzene	ND		ug/l	0.02	0.01	1
Pentachlorophenol	ND		ug/l	0.10	0.01	1
Benzo(a)anthracene	ND		ug/l	0.05	0.02	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	1.0	0.51	1
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	ND		ug/l	0.05	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	68		41-149

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04
Client ID: MW-004
Sample Location: PHILADELPHIA

Date Collected: 10/25/21 16:00
Date Received: 10/26/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/04/21 14:57
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		ug/l	5.0	0.53	1
Phenol	ND		ug/l	5.0	0.57	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Acetophenone	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
Nitrobenzene	ND		ug/l	1.4	0.77	1
Isophorone	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	5.0	0.85	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
Naphthalene	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	3.7	1.1	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Caprolactam	ND		ug/l	10	3.3	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.44	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Biphenyl	ND		ug/l	2.0	0.46	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04 Date Collected: 10/25/21 16:00

Client ID: MW-004 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		ug/l	2.0	0.46	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
Acenaphthene	ND		ug/l	2.0	0.53	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Fluorene	ND		ug/l	2.0	0.41	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Atrazine	ND		ug/l	3.0	0.76	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Anthracene	ND		ug/l	2.0	0.33	1
Carbazole	ND		ug/l	2.0	0.49	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Fluoranthene	ND		ug/l	2.0	0.26	1
Pyrene	ND		ug/l	2.0	0.28	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
Chrysene	ND		ug/l	2.0	0.34	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	60		41-149

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04
Client ID: MW-004
Sample Location: PHILADELPHIA

Date Collected: 10/25/21 16:00
Date Received: 10/26/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/04/21 13:08
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02	1
n-Nitrosodi-n-propylamine	ND		ug/l	0.10	0.01	1
Hexachloroethane	ND		ug/l	0.20	0.06	1
Hexachlorobenzene	ND		ug/l	0.02	0.01	1
Pentachlorophenol	ND		ug/l	0.10	0.01	1
Benzo(a)anthracene	ND		ug/l	0.05	0.02	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	1.0	0.51	1
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	ND		ug/l	0.05	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	70		41-149

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/21 09:02
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1566395-1					
Benzaldehyde	ND		ug/l	5.0	0.53
Phenol	ND		ug/l	5.0	0.57
2-Chlorophenol	ND		ug/l	2.0	0.48
2-Methylphenol	ND		ug/l	5.0	0.49
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Acetophenone	ND		ug/l	5.0	0.53
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
Nitrobenzene	ND		ug/l	1.4	0.77
Isophorone	ND		ug/l	5.0	1.2
2-Nitrophenol	ND		ug/l	5.0	0.85
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
Naphthalene	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	3.7	1.1
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Caprolactam	ND		ug/l	10	3.3
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Methylnaphthalene	ND		ug/l	2.0	0.45
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.44
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Biphenyl	ND		ug/l	2.0	0.46
2-Chloronaphthalene	ND		ug/l	2.0	0.44
2-Nitroaniline	ND		ug/l	5.0	0.50
Dimethyl phthalate	ND		ug/l	5.0	1.8
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Acenaphthylene	ND		ug/l	2.0	0.46

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/21 09:02
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1566395-1					
3-Nitroaniline	ND		ug/l	5.0	0.81
Acenaphthene	ND		ug/l	2.0	0.53
2,4-Dinitrophenol	ND		ug/l	20	6.6
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
Dibenzofuran	ND		ug/l	2.0	0.50
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84
Diethyl phthalate	ND		ug/l	5.0	0.38
Fluorene	ND		ug/l	2.0	0.41
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Nitroaniline	ND		ug/l	5.0	0.80
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
NDPA/DPA	ND		ug/l	2.0	0.42
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Atrazine	ND		ug/l	3.0	0.76
Phenanthrene	ND		ug/l	2.0	0.33
Anthracene	ND		ug/l	2.0	0.33
Carbazole	ND		ug/l	2.0	0.49
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Fluoranthene	ND		ug/l	2.0	0.26
Pyrene	ND		ug/l	2.0	0.28
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
Chrysene	ND		ug/l	2.0	0.34
Di-n-octylphthalate	ND		ug/l	5.0	1.3

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/21 09:02
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1566395-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	60		41-149

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/04/21 11:31
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03-04 Batch: WG1566396-1					
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02
n-Nitrosodi-n-propylamine	ND		ug/l	0.10	0.01
Hexachloroethane	ND		ug/l	0.20	0.06
Hexachlorobenzene	ND		ug/l	0.02	0.01
Pentachlorophenol	ND		ug/l	0.10	0.01
Benzo(a)anthracene	ND		ug/l	0.05	0.02
Bis(2-ethylhexyl)phthalate	ND		ug/l	1.0	0.51
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Dibenzo(a,h)anthracene	ND		ug/l	0.05	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	73		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678

Lab Number: L2158499
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1566395-2 WG1566395-3								
Benzaldehyde	59		59		40-140	0		30
Phenol	50		52		12-110	4		30
2-Chlorophenol	62		65		27-123	5		30
2-Methylphenol	65		68		30-130	5		30
Bis(2-chloroisopropyl)ether	47		48		40-140	2		30
Acetophenone	62		64		39-129	3		30
3-Methylphenol/4-Methylphenol	64		67		30-130	5		30
Nitrobenzene	69		71		40-140	3		30
Isophorone	62		63		40-140	2		30
2-Nitrophenol	77		82		30-130	6		30
2,4-Dimethylphenol	65		66		30-130	2		30
Bis(2-chloroethoxy)methane	68		71		40-140	4		30
2,4-Dichlorophenol	62		64		30-130	3		30
Naphthalene	55		56		40-140	2		30
4-Chloroaniline	**33**	Q	**30**	Q	40-140	10		30
Hexachlorobutadiene	45		44		40-140	2		30
Caprolactam	25		25		10-130	0		30
p-Chloro-m-cresol	64		66		23-97	3		30
2-Methylnaphthalene	57		57		40-140	0		30
Hexachlorocyclopentadiene	50		50		40-140	0		30
1,2,4,5-Tetrachlorobenzene	49		48		2-134	2		30
2,4,6-Trichlorophenol	51		53		30-130	4		30
2,4,5-Trichlorophenol	53		55		30-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678

Lab Number: L2158499
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1566395-2 WG1566395-3								
Biphenyl	53		54		40-140	2		30
2-Chloronaphthalene	53		54		40-140	2		30
2-Nitroaniline	69		72		52-143	4		30
Dimethyl phthalate	55		57		40-140	4		30
2,6-Dinitrotoluene	62		62		40-140	0		30
Acenaphthylene	54		55		45-123	2		30
3-Nitroaniline	58		62		25-145	7		30
Acenaphthene	58		61		37-111	5		30
2,4-Dinitrophenol	73		68		20-130	7		30
4-Nitrophenol	71		74		10-80	4		30
2,4-Dinitrotoluene	66		70		48-143	6		30
Dibenzofuran	57		58		40-140	2		30
2,3,4,6-Tetrachlorophenol	**53**	Q	55		54-145	4		30
Diethyl phthalate	62		65		40-140	5		30
Fluorene	57		61		40-140	7		30
4-Chlorophenyl phenyl ether	53		54		40-140	2		30
4-Nitroaniline	66		70		51-143	6		30
4,6-Dinitro-o-cresol	76		77		20-164	1		30
NDPA/DPA	57		58		40-140	2		30
4-Bromophenyl phenyl ether	57		60		40-140	5		30
Atrazine	70		71		40-140	1		30
Phenanthrene	57		60		40-140	5		30
Anthracene	56		60		40-140	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET

Project Number: 30108678

Lab Number: L2158499

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1566395-2 WG1566395-3								
Carbazole	58		62		55-144	7		30
Di-n-butylphthalate	58		61		40-140	5		30
Fluoranthene	54		57		40-140	5		30
Pyrene	53		56		26-127	6		30
Butyl benzyl phthalate	65		67		40-140	3		30
3,3'-Dichlorobenzidine	55		54		40-140	2		30
Chrysene	59		60		40-140	2		30
Di-n-octylphthalate	69		69		40-140	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		62		21-120
Phenol-d6	49		52		10-120
Nitrobenzene-d5	71		73		23-120
2-Fluorobiphenyl	48		49		15-120
2,4,6-Tribromophenol	69		72		10-120
4-Terphenyl-d14	54		55		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03-04 Batch: WG1566396-2 WG1566396-3								
Bis(2-chloroethyl)ether	56		61		40-140	9		40
n-Nitrosodi-n-propylamine	58		65		40-140	11		40
Hexachloroethane	52		56		40-140	7		40
Hexachlorobenzene	59		65		40-140	10		40
Pentachlorophenol	57		62		9-103	8		40
Benzo(a)anthracene	58		65		40-140	11		40
Bis(2-ethylhexyl)phthalate	62		77		40-140	22		40
Benzo(b)fluoranthene	65		77		40-140	17		40
Benzo(k)fluoranthene	60		67		40-140	11		40
Benzo(a)pyrene	60		68		40-140	13		40
Indeno(1,2,3-cd)pyrene	67		76		40-140	13		40
Dibenzo(a,h)anthracene	65		75		40-140	14		40
Benzo(ghi)perylene	63		72		40-140	13		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	49		52		21-120
Phenol-d6	44		47		10-120
Nitrobenzene-d5	60		66		23-120
2-Fluorobiphenyl	62		68		15-120
2,4,6-Tribromophenol	63		73		10-120
4-Terphenyl-d14	61		68		41-149

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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
F	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158499-01A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-01B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-01C	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-01D	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2158499-01E	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-TOTAL(180)
L2158499-01F	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-01G	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-02A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-02B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-02C	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-02D	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2158499-02E	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-TOTAL(180)
L2158499-02F	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-02G	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-03A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-03B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-03C	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-03D	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2158499-03E	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-TOTAL(180)
L2158499-03F	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7),PA-8270SIM-LVI(7),PA-8270-LVI(7)
L2158499-03G	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7),PA-8270SIM-LVI(7),PA-8270-LVI(7)
L2158499-04A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

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Lab Number: L2158499
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158499-04B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-04C	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-04D	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2158499-04E	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-TOTAL(180)
L2158499-04F	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-04G	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-05A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-05B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-05C	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-05D	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2158499-05E	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-TOTAL(180)
L2158499-05F	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-05G	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-06A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-06B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-06C	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-06D	Plastic 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2158499-06E	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-TOTAL(180)
L2158499-06F	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-06G	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-07A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-07B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE-S. 51ST STREET	**Lab Number:**	L2158499
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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST STREET	**Lab Number:**	L2158499
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 1 of 1

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158499

Client Information
Client: Arcadis
Address: 1 Harvard Way Suite S Hillsborough, NJ
Phone: 9085261069
Fax:
Email: larry.brunt@arcadis.com

Project Information
Project Name: Alliance - S. 51st Street
Project Location: Philadelphia
Project #: 30108078
(Use Project name as Project #)
Project Manager: Lawrence Brunt
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

For EPH, selection is REQUIRED: ☐ Category 1 ☐ Category 2

For VOC, selection is REQUIRED: ☐ 1,4-Dioxane ☐ 8011

Other project specific requirements/comments:
H - Sample on Hold
Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☑ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	Base Neutrals	Total Metals	Dissolved Metals * Field Filtered	Sample Specific Comments	Total Bottle
58499-01	MW-002	10/25/21	1135	GW	NS	X	H	H	H		7
-02	MW-003	"	1235	"	"	X	H	H	H		7
-03	MW-003	"	1405	"	"	X	H	H	H		7
-04	MW-004	"	1600	"	"	X	H	H	H		7
-05	DUP-1	"	—	"	"	X	H	H	H		7
-06	Field Blank	"	1200	FB	"	X	H	H	H		16
-07	Trip Blank	—	—	TB	WB	X					2

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	AV	A	P	P				
Preservative	B	A	C	C				

Relinquished By:	Date/Time	Received By:	Date/Time
Maria Nikiforaki	10/26/21 1211	ST AAL	10/26/21 13:40
ST	10/26/21 1800		10/26/21 1800
	10/26/21 2130		10/26/21 2130
	10/27/21	AAL	10/27/21 0150
AAL	10/27/21 0330		10/27/21 03:35

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2158500
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE-S. 51ST ST.
Project Number:	30108678
Report Date:	11/11/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158500-01	SB-101 (1.5-2)	SOIL	PHILADELPHIA, PA	10/25/21 14:15	10/26/21
L2158500-02	SB-102 (2.5-3)	SOIL	PHILADELPHIA, PA	10/25/21 14:20	10/26/21
L2158500-03	SB-103 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 14:25	10/26/21
L2158500-04	SB-104 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 14:35	10/26/21
L2158500-05	SB-105 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 14:45	10/26/21
L2158500-06	SB-106 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 14:55	10/26/21
L2158500-07	SB-107 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 15:00	10/26/21

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

Case Narrative (continued)

Report Revision

November 11, 2021: The Volatile Organics analyte list has been amended on all submitted samples. The Semivolatile Organics analyte list has been amended on L2158500-03 and -05D. In addition, Volatile Organics TICs have been added.

November 05, 2021: At the client's request, the Volatile Organics reporting list has been extended. Additionally, this report includes the results of the Semivolatile Organics analyses performed on L2158500-03 and -05.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2158500-01: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L2158500-01: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (167%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2158500-03 and -04D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L2158500-03D: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (156%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2158500-04D: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (258%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

Semivolatile Organics

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

Case Narrative (continued)

L2158500-03D and -05D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Semivolatile Organics by SIM

L2158500-03D: The sample has elevated detection limits due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 11/11/21

ORGANICS

VOLATILES

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-01
Client ID: SB-101 (1.5-2)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:15
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 01:42
Analyst: NLK
Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	1.1	0.10	1
Chloromethane	ND		mg/kg	0.45	0.10	1
Vinyl chloride	ND		mg/kg	0.11	0.038	1
Bromomethane	ND		mg/kg	0.23	0.066	1
Chloroethane	ND		mg/kg	0.23	0.051	1
Trichlorofluoromethane	ND		mg/kg	0.45	0.078	1
1,1-Dichloroethene	ND		mg/kg	0.11	0.027	1
Carbon disulfide	ND		mg/kg	1.1	0.51	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.45	0.078	1
Methylene chloride	ND		mg/kg	0.56	0.26	1
Acetone	ND		mg/kg	1.1	0.54	1
trans-1,2-Dichloroethene	ND		mg/kg	0.17	0.015	1
Methyl Acetate	ND		mg/kg	0.45	0.11	1
Methyl tert butyl ether	ND		mg/kg	0.23	0.023	1
1,1-Dichloroethane	ND		mg/kg	0.11	0.016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.11	0.020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.11	0.015	1
Cyclohexane	2.2		mg/kg	1.1	0.061	1
Bromochloromethane	ND		mg/kg	0.23	0.023	1
Chloroform	ND		mg/kg	0.17	0.016	1
Carbon tetrachloride	ND		mg/kg	0.11	0.026	1
1,1,1-Trichloroethane	ND		mg/kg	0.056	0.019	1
2-Butanone	ND		mg/kg	1.1	0.25	1
Benzene	0.16		mg/kg	0.056	0.019	1
1,2-Dichloroethane	ND		mg/kg	0.11	0.029	1
Methyl cyclohexane	9.2		mg/kg	0.45	0.068	1
Trichloroethene	ND		mg/kg	0.056	0.015	1
1,2-Dichloropropane	ND		mg/kg	0.11	0.014	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-01 Date Collected: 10/25/21 14:15

Client ID: SB-101 (1.5-2) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.056	0.012	1
1,4-Dioxane	ND		mg/kg	9.0	4.0	1
cis-1,3-Dichloropropene	ND		mg/kg	0.056	0.018	1
Toluene	0.78		mg/kg	0.11	0.061	1
4-Methyl-2-pentanone	ND		mg/kg	1.1	0.14	1
Tetrachloroethene	ND		mg/kg	0.056	0.022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.11	0.031	1
1,3-Dichloropropene, Total	ND		mg/kg	0.056	0.018	1
1,1,2-Trichloroethane	ND		mg/kg	0.11	0.030	1
Dibromochloromethane	ND		mg/kg	0.11	0.016	1
1,2-Dibromoethane	ND		mg/kg	0.056	0.033	1
2-Hexanone	ND		mg/kg	1.1	0.13	1
Chlorobenzene	ND		mg/kg	0.056	0.014	1
Ethylbenzene	0.84		mg/kg	0.11	0.016	1
p/m-Xylene	3.5		mg/kg	0.23	0.063	1
o-Xylene	1.1		mg/kg	0.11	0.033	1
Xylenes, Total	4.6		mg/kg	0.11	0.033	1
Styrene	ND		mg/kg	0.11	0.022	1
Bromoform	ND		mg/kg	0.45	0.028	1
Isopropylbenzene	0.76		mg/kg	0.11	0.012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.056	0.019	1
1,2,4-Trimethylbenzene	30.		mg/kg	0.23	0.038	1
1,3-Dichlorobenzene	ND		mg/kg	0.23	0.017	1
1,4-Dichlorobenzene	ND		mg/kg	0.23	0.019	1
1,2-Dichlorobenzene	ND		mg/kg	0.23	0.016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.34	0.11	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.23	0.031	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.23	0.036	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-01 Date Collected: 10/25/21 14:15

Client ID: SB-101 (1.5-2) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	65.1	J	mg/kg			1
Unknown Benzene	3.40	J	mg/kg			1
Unknown Benzene	5.13	J	mg/kg			1
Unknown	3.78	J	mg/kg			1
Unknown	4.98	J	mg/kg			1
Unknown Alkane	3.94	J	mg/kg			1
Unknown Benzene	3.39	J	mg/kg			1
Unknown Benzene	5.21	J	mg/kg			1
Unknown Alkane	3.86	J	mg/kg			1
Unknown Benzene	4.81	J	mg/kg			1
Unknown Aromatic	4.21	J	mg/kg			1
Decane (C10)	6.07	NJ	mg/kg			1
Unknown	4.10	J	mg/kg			1
Unknown Cyclohexane	3.73	J	mg/kg			1
Unknown	4.76	J	mg/kg			1
Unknown Benzene	3.72	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	**167**	Q	70-130
Dibromofluoromethane	87		70-130

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-02
Client ID: SB-102 (2.5-3)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:20
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/29/21 23:59
Analyst: NLK
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0046	0.0011	1
Vinyl chloride	ND		mg/kg	0.0011	0.00038	1
Bromomethane	ND		mg/kg	0.0023	0.00067	1
Chloroethane	ND		mg/kg	0.0023	0.00052	1
Trichlorofluoromethane	ND		mg/kg	0.0046	0.00080	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00027	1
Carbon disulfide	ND		mg/kg	0.011	0.0052	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0046	0.00080	1
Methylene chloride	ND		mg/kg	0.0057	0.0026	1
Acetone	ND		mg/kg	0.029	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00016	1
Methyl Acetate	ND		mg/kg	0.0046	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00017	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00016	1
Cyclohexane	ND		mg/kg	0.011	0.00062	1
Bromochloromethane	ND		mg/kg	0.0023	0.00024	1
Chloroform	ND		mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00057	0.00019	1
2-Butanone	ND		mg/kg	0.011	0.0025	1
Benzene	0.00026	J	mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00030	1
Methyl cyclohexane	ND		mg/kg	0.0046	0.00069	1
Trichloroethene	ND		mg/kg	0.00057	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-02 Date Collected: 10/25/21 14:20

Client ID: SB-102 (2.5-3) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00057	0.00012	1
1,4-Dioxane	ND		mg/kg	0.092	0.040	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00057	0.00018	1
Toluene	0.00096	J	mg/kg	0.0011	0.00062	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0015	1
Tetrachloroethene	ND		mg/kg	0.00057	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00031	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00057	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00031	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00034	1
2-Hexanone	ND		mg/kg	0.011	0.0014	1
Chlorobenzene	ND		mg/kg	0.00057	0.00014	1
Ethylbenzene	0.00037	J	mg/kg	0.0011	0.00016	1
p/m-Xylene	0.0016	J	mg/kg	0.0023	0.00064	1
o-Xylene	0.00068	J	mg/kg	0.0011	0.00033	1
Xylenes, Total	0.0023	J	mg/kg	0.0011	0.00033	1
Styrene	ND		mg/kg	0.0011	0.00022	1
Bromoform	ND		mg/kg	0.0046	0.00028	1
Isopropylbenzene	0.00015	J	mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00057	0.00019	1
1,2,4-Trimethylbenzene	0.0035		mg/kg	0.0023	0.00038	1
1,3-Dichlorobenzene	ND		mg/kg	0.0023	0.00017	1
1,4-Dichlorobenzene	ND		mg/kg	0.0023	0.00020	1
1,2-Dichlorobenzene	ND		mg/kg	0.0023	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0034	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0023	0.00031	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0023	0.00037	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-02 Date Collected: 10/25/21 14:20

Client ID: SB-102 (2.5-3) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.0568	J	mg/kg			1
Unknown Benzene	0.00311	J	mg/kg			1
Unknown Alkane	0.00411	J	mg/kg			1
Unknown Benzene	0.00269	J	mg/kg			1
Naphthalene	0.00303	NJ	mg/kg			1
Unknown Alkane	0.00758	J	mg/kg			1
Unknown Benzene	0.00389	J	mg/kg			1
Unknown	0.00297	J	mg/kg			1
Unknown	0.00393	J	mg/kg			1
Unknown Alkane	0.00269	J	mg/kg			1
Unknown Benzene	0.00294	J	mg/kg			1
Unknown Aromatic	0.00498	J	mg/kg			1
Decane (C10)	0.00581	NJ	mg/kg			1
Unknown Benzene	0.00319	J	mg/kg			1
Unknown	0.00298	J	mg/kg			1
Unknown Alkane	0.00285	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	92		70-130

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 03:00
Analyst: NLK
Percent Solids: 63%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	2.6	0.24	2
Chloromethane	ND		mg/kg	1.0	0.24	2
Vinyl chloride	ND		mg/kg	0.26	0.088	2
Bromomethane	ND		mg/kg	0.52	0.15	2
Chloroethane	ND		mg/kg	0.52	0.12	2
Trichlorofluoromethane	ND		mg/kg	1.0	0.18	2
1,1-Dichloroethene	ND		mg/kg	0.26	0.062	2
Carbon disulfide	ND		mg/kg	2.6	1.2	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.0	0.18	2
Methylene chloride	ND		mg/kg	1.3	0.60	2
Acetone	ND		mg/kg	2.6	1.2	2
trans-1,2-Dichloroethene	ND		mg/kg	0.39	0.036	2
Methyl Acetate	ND		mg/kg	1.0	0.25	2
Methyl tert butyl ether	ND		mg/kg	0.52	0.052	2
1,1-Dichloroethane	ND		mg/kg	0.26	0.038	2
cis-1,2-Dichloroethene	ND		mg/kg	0.26	0.046	2
1,2-Dichloroethene, Total	ND		mg/kg	0.26	0.036	2
Cyclohexane	19.		mg/kg	2.6	0.14	2
Bromochloromethane	ND		mg/kg	0.52	0.054	2
Chloroform	ND		mg/kg	0.39	0.037	2
Carbon tetrachloride	ND		mg/kg	0.26	0.060	2
1,1,1-Trichloroethane	ND		mg/kg	0.13	0.044	2
2-Butanone	ND		mg/kg	2.6	0.58	2
Benzene	ND		mg/kg	0.13	0.043	2
1,2-Dichloroethane	ND		mg/kg	0.26	0.067	2
Methyl cyclohexane	65.		mg/kg	1.0	0.16	2
Trichloroethene	ND		mg/kg	0.13	0.036	2
1,2-Dichloropropane	ND		mg/kg	0.26	0.033	2

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.13	0.028	2
1,4-Dioxane	ND		mg/kg	21	9.2	2
cis-1,3-Dichloropropene	ND		mg/kg	0.13	0.041	2
Toluene	0.22	J	mg/kg	0.26	0.14	2
4-Methyl-2-pentanone	ND		mg/kg	2.6	0.33	2
Tetrachloroethene	ND		mg/kg	0.13	0.051	2
trans-1,3-Dichloropropene	ND		mg/kg	0.26	0.071	2
1,3-Dichloropropene, Total	ND		mg/kg	0.13	0.041	2
1,1,2-Trichloroethane	ND		mg/kg	0.26	0.070	2
Dibromochloromethane	ND		mg/kg	0.26	0.037	2
1,2-Dibromoethane	ND		mg/kg	0.13	0.077	2
2-Hexanone	ND		mg/kg	2.6	0.31	2
Chlorobenzene	ND		mg/kg	0.13	0.033	2
Ethylbenzene	12.		mg/kg	0.26	0.037	2
p/m-Xylene	9.5		mg/kg	0.52	0.15	2
o-Xylene	2.2		mg/kg	0.26	0.076	2
Xylenes, Total	12.		mg/kg	0.26	0.076	2
Styrene	ND		mg/kg	0.26	0.051	2
Bromoform	ND		mg/kg	1.0	0.064	2
Isopropylbenzene	12.		mg/kg	0.26	0.028	2
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.13	0.043	2
1,2,4-Trimethylbenzene	130	E	mg/kg	0.52	0.087	2
1,3-Dichlorobenzene	ND		mg/kg	0.52	0.039	2
1,4-Dichlorobenzene	0.050	J	mg/kg	0.52	0.045	2
1,2-Dichlorobenzene	0.35	J	mg/kg	0.52	0.038	2
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.78	0.26	2
1,2,4-Trichlorobenzene	ND		mg/kg	0.52	0.071	2
1,2,3-Trichlorobenzene	ND		mg/kg	0.52	0.084	2

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	379.	J	mg/kg			2
Unknown Cyclohexane	26.2	J	mg/kg			2
Unknown Alkane	23.9	J	mg/kg			2
Unknown Cyclohexane	23.0	J	mg/kg			2
Unknown Alkane	18.5	J	mg/kg			2
Unknown Alkane	21.0	J	mg/kg			2
Unknown Cyclohexane	23.1	J	mg/kg			2
Unknown	32.2	J	mg/kg			2
Unknown	24.1	J	mg/kg			2
Cyclohexane, ethyl-	24.1	NJ	mg/kg			2
Unknown	39.0	J	mg/kg			2
Unknown Cyclohexane	29.5	J	mg/kg			2
Unknown Alkane	19.0	J	mg/kg			2
Unknown Alkane	29.3	J	mg/kg			2
Octane, 3-methyl-	26.3	NJ	mg/kg			2
Unknown	20.1	J	mg/kg			2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	120		70-130
4-Bromofluorobenzene	**156**	Q	70-130
Dibromofluoromethane	82		70-130

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-04 D
Client ID: SB-104 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 02:34
Analyst: NLK
Percent Solids: 53%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	3.0	0.27	2
Chloromethane	ND		mg/kg	1.2	0.28	2
Vinyl chloride	ND		mg/kg	0.30	0.099	2
Bromomethane	ND		mg/kg	0.59	0.17	2
Chloroethane	ND		mg/kg	0.59	0.13	2
Trichlorofluoromethane	ND		mg/kg	1.2	0.21	2
1,1-Dichloroethene	ND		mg/kg	0.30	0.070	2
Carbon disulfide	ND		mg/kg	3.0	1.3	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.2	0.20	2
Methylene chloride	ND		mg/kg	1.5	0.68	2
Acetone	ND		mg/kg	3.0	1.4	2
trans-1,2-Dichloroethene	ND		mg/kg	0.44	0.041	2
Methyl Acetate	ND		mg/kg	1.2	0.28	2
Methyl tert butyl ether	ND		mg/kg	0.59	0.060	2
1,1-Dichloroethane	ND		mg/kg	0.30	0.043	2
cis-1,2-Dichloroethene	ND		mg/kg	0.30	0.052	2
1,2-Dichloroethene, Total	ND		mg/kg	0.30	0.041	2
Cyclohexane	6.6		mg/kg	3.0	0.16	2
Bromochloromethane	ND		mg/kg	0.59	0.061	2
Chloroform	ND		mg/kg	0.44	0.042	2
Carbon tetrachloride	ND		mg/kg	0.30	0.068	2
1,1,1-Trichloroethane	ND		mg/kg	0.15	0.050	2
2-Butanone	ND		mg/kg	3.0	0.66	2
Benzene	ND		mg/kg	0.15	0.049	2
1,2-Dichloroethane	ND		mg/kg	0.30	0.076	2
Methyl cyclohexane	24.		mg/kg	1.2	0.18	2
Trichloroethene	ND		mg/kg	0.15	0.041	2
1,2-Dichloropropane	ND		mg/kg	0.30	0.037	2

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-04 D
Client ID: SB-104 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.15	0.032	2
1,4-Dioxane	ND		mg/kg	24	10.	2
cis-1,3-Dichloropropene	ND		mg/kg	0.15	0.047	2
Toluene	ND		mg/kg	0.30	0.16	2
4-Methyl-2-pentanone	ND		mg/kg	3.0	0.38	2
Tetrachloroethene	ND		mg/kg	0.15	0.058	2
trans-1,3-Dichloropropene	ND		mg/kg	0.30	0.081	2
1,3-Dichloropropene, Total	ND		mg/kg	0.15	0.047	2
1,1,2-Trichloroethane	ND		mg/kg	0.30	0.079	2
Dibromochloromethane	ND		mg/kg	0.30	0.042	2
1,2-Dibromoethane	ND		mg/kg	0.15	0.087	2
2-Hexanone	ND		mg/kg	3.0	0.35	2
Chlorobenzene	ND		mg/kg	0.15	0.038	2
Ethylbenzene	0.15	J	mg/kg	0.30	0.042	2
p/m-Xylene	0.56	J	mg/kg	0.59	0.17	2
o-Xylene	0.31		mg/kg	0.30	0.086	2
Xylenes, Total	0.87	J	mg/kg	0.30	0.086	2
Styrene	ND		mg/kg	0.30	0.058	2
Bromoform	ND		mg/kg	1.2	0.073	2
Isopropylbenzene	0.33		mg/kg	0.30	0.032	2
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.15	0.049	2
1,2,4-Trimethylbenzene	7.3		mg/kg	0.59	0.099	2
1,3-Dichlorobenzene	ND		mg/kg	0.59	0.044	2
1,4-Dichlorobenzene	ND		mg/kg	0.59	0.051	2
1,2-Dichlorobenzene	ND		mg/kg	0.59	0.043	2
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.89	0.30	2
1,2,4-Trichlorobenzene	ND		mg/kg	0.59	0.081	2
1,2,3-Trichlorobenzene	ND		mg/kg	0.59	0.095	2

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-04 D
Client ID: SB-104 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	172.	J	mg/kg			2
Unknown	5.93	J	mg/kg			2
Unknown	4.51	J	mg/kg			2
Unknown	5.93	J	mg/kg			2
Unknown	7.88	J	mg/kg			2
Undecane	17.7	NJ	mg/kg			2
Unknown Alkane	58.7	J	mg/kg			2
Unknown	10.9	J	mg/kg			2
Unknown Alkane	4.51	J	mg/kg			2
Octane	10.7	NJ	mg/kg			2
Heptane, 2-methyl-	7.08	NJ	mg/kg			2
Unknown	7.33	J	mg/kg			2
Unknown Alkane	6.36	J	mg/kg			2
Unknown Cyclohexane	6.56	J	mg/kg			2
Unknown Alkane	12.6	J	mg/kg			2
Heptane	5.84	NJ	mg/kg			2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	**258**	Q	70-130
Dibromofluoromethane	88		70-130

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05
Client ID: SB-105 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 01:17
Analyst: NLK
Percent Solids: 55%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	1.5	0.13	1
Chloromethane	ND		mg/kg	0.59	0.14	1
Vinyl chloride	ND		mg/kg	0.15	0.049	1
Bromomethane	ND		mg/kg	0.29	0.085	1
Chloroethane	ND		mg/kg	0.29	0.066	1
Trichlorofluoromethane	ND		mg/kg	0.59	0.10	1
1,1-Dichloroethene	ND		mg/kg	0.15	0.035	1
Carbon disulfide	ND		mg/kg	1.5	0.67	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.59	0.10	1
Methylene chloride	ND		mg/kg	0.73	0.34	1
Acetone	ND		mg/kg	1.5	0.71	1
trans-1,2-Dichloroethene	ND		mg/kg	0.22	0.020	1
Methyl Acetate	ND		mg/kg	0.59	0.14	1
Methyl tert butyl ether	ND		mg/kg	0.29	0.030	1
1,1-Dichloroethane	ND		mg/kg	0.15	0.021	1
cis-1,2-Dichloroethene	ND		mg/kg	0.15	0.026	1
1,2-Dichloroethene, Total	ND		mg/kg	0.15	0.020	1
Cyclohexane	1.2	J	mg/kg	1.5	0.080	1
Bromochloromethane	ND		mg/kg	0.29	0.030	1
Chloroform	ND		mg/kg	0.22	0.020	1
Carbon tetrachloride	ND		mg/kg	0.15	0.034	1
1,1,1-Trichloroethane	ND		mg/kg	0.073	0.024	1
2-Butanone	ND		mg/kg	1.5	0.33	1
Benzene	1.8		mg/kg	0.073	0.024	1
1,2-Dichloroethane	ND		mg/kg	0.15	0.038	1
Methyl cyclohexane	1.8		mg/kg	0.59	0.088	1
Trichloroethene	ND		mg/kg	0.073	0.020	1
1,2-Dichloropropane	ND		mg/kg	0.15	0.018	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05 Date Collected: 10/25/21 14:45

Client ID: SB-105 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.073	0.016	1
1,4-Dioxane	ND		mg/kg	12	5.2	1
cis-1,3-Dichloropropene	ND		mg/kg	0.073	0.023	1
Toluene	5.5		mg/kg	0.15	0.080	1
4-Methyl-2-pentanone	ND		mg/kg	1.5	0.19	1
Tetrachloroethene	ND		mg/kg	0.073	0.029	1
trans-1,3-Dichloropropene	ND		mg/kg	0.15	0.040	1
1,3-Dichloropropene, Total	ND		mg/kg	0.073	0.023	1
1,1,2-Trichloroethane	ND		mg/kg	0.15	0.039	1
Dibromochloromethane	ND		mg/kg	0.15	0.020	1
1,2-Dibromoethane	ND		mg/kg	0.073	0.043	1
2-Hexanone	ND		mg/kg	1.5	0.17	1
Chlorobenzene	ND		mg/kg	0.073	0.019	1
Ethylbenzene	8.3		mg/kg	0.15	0.021	1
p/m-Xylene	20.		mg/kg	0.29	0.082	1
o-Xylene	4.0		mg/kg	0.15	0.043	1
Xylenes, Total	24.		mg/kg	0.15	0.043	1
Styrene	ND		mg/kg	0.15	0.029	1
Bromoform	ND		mg/kg	0.59	0.036	1
Isopropylbenzene	4.4		mg/kg	0.15	0.016	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.073	0.024	1
1,2,4-Trimethylbenzene	38.		mg/kg	0.29	0.049	1
1,3-Dichlorobenzene	ND		mg/kg	0.29	0.022	1
1,4-Dichlorobenzene	ND		mg/kg	0.29	0.025	1
1,2-Dichlorobenzene	ND		mg/kg	0.29	0.021	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.44	0.15	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.29	0.040	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.29	0.047	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05 Date Collected: 10/25/21 14:45

Client ID: SB-105 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	96.4	J	mg/kg			1
Unknown Benzene	3.80	J	mg/kg			1
Unknown Alkane	6.67	J	mg/kg			1
Unknown	10.7	J	mg/kg			1
Unknown Benzene	8.62	J	mg/kg			1
Unknown Benzene	12.7	J	mg/kg			1
Octane, 3-methyl-	7.18	NJ	mg/kg			1
Unknown Alkane	5.06	J	mg/kg			1
Unknown Benzene	3.94	J	mg/kg			1
Unknown Benzene	5.20	J	mg/kg			1
Unknown Benzene	6.95	J	mg/kg			1
Benzene, Propyl-	5.25	NJ	mg/kg			1
Unknown Aromatic	3.37	J	mg/kg			1
Unknown Aromatic	7.43	J	mg/kg			1
Hexane, 2,3-dimethyl-	4.77	NJ	mg/kg			1
Naphthalene	4.76	NJ	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	89		70-130

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678
Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-06
Client ID: SB-106 (4.5-5)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 14:55
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 04:17
Analyst: NLK
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.017	0.0016	1
Chloromethane	ND		mg/kg	0.0069	0.0016	1
Vinyl chloride	ND		mg/kg	0.0017	0.00058	1
Bromomethane	ND		mg/kg	0.0034	0.0010	1
Chloroethane	ND		mg/kg	0.0034	0.00078	1
Trichlorofluoromethane	ND		mg/kg	0.0069	0.0012	1
1,1-Dichloroethene	ND		mg/kg	0.0017	0.00041	1
Carbon disulfide	ND		mg/kg	0.017	0.0078	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0069	0.0012	1
Methylene chloride	ND		mg/kg	0.0086	0.0039	1
Acetone	0.038	J	mg/kg	0.043	0.017	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0026	0.00024	1
Methyl Acetate	ND		mg/kg	0.0069	0.0016	1
Methyl tert butyl ether	0.00049	J	mg/kg	0.0034	0.00035	1
1,1-Dichloroethane	ND		mg/kg	0.0017	0.00025	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00030	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0017	0.00024	1
Cyclohexane	0.0043	J	mg/kg	0.017	0.00094	1
Bromochloromethane	ND		mg/kg	0.0034	0.00035	1
Chloroform	ND		mg/kg	0.0026	0.00024	1
Carbon tetrachloride	ND		mg/kg	0.0017	0.00040	1
1,1,1-Trichloroethane	ND		mg/kg	0.00086	0.00029	1
2-Butanone	ND		mg/kg	0.017	0.0038	1
Benzene	0.0094		mg/kg	0.00086	0.00029	1
1,2-Dichloroethane	ND		mg/kg	0.0017	0.00044	1
Methyl cyclohexane	0.0014	J	mg/kg	0.0069	0.0010	1
Trichloroethene	ND		mg/kg	0.00086	0.00024	1
1,2-Dichloropropane	ND		mg/kg	0.0017	0.00022	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-06 Date Collected: 10/25/21 14:55

Client ID: SB-106 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00086	0.00019	1
1,4-Dioxane	ND		mg/kg	0.14	0.060	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00086	0.00027	1
Toluene	0.017		mg/kg	0.0017	0.00094	1
4-Methyl-2-pentanone	ND		mg/kg	0.017	0.0022	1
Tetrachloroethene	ND		mg/kg	0.00086	0.00034	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0017	0.00047	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00086	0.00027	1
1,1,2-Trichloroethane	ND		mg/kg	0.0017	0.00046	1
Dibromochloromethane	ND		mg/kg	0.0017	0.00024	1
1,2-Dibromoethane	ND		mg/kg	0.00086	0.00050	1
2-Hexanone	ND		mg/kg	0.017	0.0020	1
Chlorobenzene	ND		mg/kg	0.00086	0.00022	1
Ethylbenzene	0.0054		mg/kg	0.0017	0.00024	1
p/m-Xylene	0.019		mg/kg	0.0034	0.00096	1
o-Xylene	0.028		mg/kg	0.0017	0.00050	1
Xylenes, Total	0.047		mg/kg	0.0017	0.00050	1
Styrene	0.00090	J	mg/kg	0.0017	0.00034	1
Bromoform	ND		mg/kg	0.0069	0.00042	1
Isopropylbenzene	0.0026		mg/kg	0.0017	0.00019	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00086	0.00029	1
1,2,4-Trimethylbenzene	0.017		mg/kg	0.0034	0.00058	1
1,3-Dichlorobenzene	ND		mg/kg	0.0034	0.00026	1
1,4-Dichlorobenzene	ND		mg/kg	0.0034	0.00029	1
1,2-Dichlorobenzene	ND		mg/kg	0.0034	0.00025	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0052	0.0017	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0034	0.00047	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0034	0.00056	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-06 Date Collected: 10/25/21 14:55

Client ID: SB-106 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.493	J	mg/kg			1
Indane	0.0293	NJ	mg/kg			1
Unknown Aromatic	0.0207	J	mg/kg			1
Unknown Aromatic	0.0158	J	mg/kg			1
Unknown Aromatic	0.0453	J	mg/kg			1
Unknown Benzene	0.0111	J	mg/kg			1
Unknown Benzene	0.00926	J	mg/kg			1
Unknown Benzene	0.00879	J	mg/kg			1
Unknown Benzene	0.00958	J	mg/kg			1
Naphthalene	0.276	NJ	mg/kg			1
Unknown	0.00915	J	mg/kg			1
Unknown	0.0106	J	mg/kg			1
Unknown Benzene	0.0104	J	mg/kg			1
Unknown Aromatic	0.0370	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	87		70-130

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-07
Client ID: SB-107 (4.5-5)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 00:25
Analyst: NLK
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.021	0.0019	1
Chloromethane	ND		mg/kg	0.0085	0.0020	1
Vinyl chloride	ND		mg/kg	0.0021	0.00071	1
Bromomethane	ND		mg/kg	0.0042	0.0012	1
Chloroethane	ND		mg/kg	0.0042	0.00096	1
Trichlorofluoromethane	ND		mg/kg	0.0085	0.0015	1
1,1-Dichloroethene	ND		mg/kg	0.0021	0.00050	1
Carbon disulfide	ND		mg/kg	0.021	0.0096	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0085	0.0015	1
Methylene chloride	ND		mg/kg	0.011	0.0048	1
Acetone	0.079		mg/kg	0.053	0.021	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0032	0.00029	1
Methyl Acetate	ND		mg/kg	0.0085	0.0020	1
Methyl tert butyl ether	ND		mg/kg	0.0042	0.00043	1
1,1-Dichloroethane	ND		mg/kg	0.0021	0.00031	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00037	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0021	0.00029	1
Cyclohexane	ND		mg/kg	0.021	0.0012	1
Bromochloromethane	ND		mg/kg	0.0042	0.00044	1
Chloroform	ND		mg/kg	0.0032	0.00030	1
Carbon tetrachloride	ND		mg/kg	0.0021	0.00049	1
1,1,1-Trichloroethane	ND		mg/kg	0.0011	0.00035	1
2-Butanone	ND		mg/kg	0.021	0.0047	1
Benzene	ND		mg/kg	0.0011	0.00035	1
1,2-Dichloroethane	ND		mg/kg	0.0021	0.00054	1
Methyl cyclohexane	ND		mg/kg	0.0085	0.0013	1
Trichloroethene	ND		mg/kg	0.0011	0.00029	1
1,2-Dichloropropane	ND		mg/kg	0.0021	0.00026	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-07 Date Collected: 10/25/21 15:00

Client ID: SB-107 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0011	0.00023	1
1,4-Dioxane	ND		mg/kg	0.17	0.074	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00034	1
Toluene	ND		mg/kg	0.0021	0.0012	1
4-Methyl-2-pentanone	ND		mg/kg	0.021	0.0027	1
Tetrachloroethene	ND		mg/kg	0.0011	0.00042	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0021	0.00058	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0011	0.00034	1
1,1,2-Trichloroethane	ND		mg/kg	0.0021	0.00057	1
Dibromochloromethane	ND		mg/kg	0.0021	0.00030	1
1,2-Dibromoethane	ND		mg/kg	0.0011	0.00062	1
2-Hexanone	ND		mg/kg	0.021	0.0025	1
Chlorobenzene	ND		mg/kg	0.0011	0.00027	1
Ethylbenzene	ND		mg/kg	0.0021	0.00030	1
p/m-Xylene	ND		mg/kg	0.0042	0.0012	1
o-Xylene	ND		mg/kg	0.0021	0.00062	1
Xylenes, Total	ND		mg/kg	0.0021	0.00062	1
Styrene	ND		mg/kg	0.0021	0.00042	1
Bromoform	ND		mg/kg	0.0085	0.00052	1
Isopropylbenzene	ND		mg/kg	0.0021	0.00023	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0011	0.00035	1
1,2,4-Trimethylbenzene	0.00076	J	mg/kg	0.0042	0.00071	1
1,3-Dichlorobenzene	ND		mg/kg	0.0042	0.00031	1
1,4-Dichlorobenzene	ND		mg/kg	0.0042	0.00036	1
1,2-Dichlorobenzene	ND		mg/kg	0.0042	0.00030	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0064	0.0021	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0042	0.00058	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0042	0.00068	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	mg/kg	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-07 Date Collected: 10/25/21 15:00

Client ID: SB-107 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	93		70-130

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 20:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,06-07 Batch: WG1565246-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 20:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,06-07 Batch: WG1565246-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	0.00061	J	mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 20:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,06-07 Batch: WG1565246-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	91		70-130

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 20:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,03-05 Batch: WG1565247-5					
Dichlorodifluoromethane	ND		mg/kg	0.50	0.046
Chloromethane	ND		mg/kg	0.20	0.047
Vinyl chloride	ND		mg/kg	0.050	0.017
Bromomethane	ND		mg/kg	0.10	0.029
Chloroethane	ND		mg/kg	0.10	0.023
Trichlorofluoromethane	ND		mg/kg	0.20	0.035
1,1-Dichloroethene	ND		mg/kg	0.050	0.012
Carbon disulfide	ND		mg/kg	0.50	0.23
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.20	0.035
Methylene chloride	ND		mg/kg	0.25	0.11
Acetone	ND		mg/kg	0.50	0.24
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.0068
Methyl Acetate	ND		mg/kg	0.20	0.048
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
1,1-Dichloroethane	ND		mg/kg	0.050	0.0072
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.0088
1,2-Dichloroethene, Total	ND		mg/kg	0.050	0.0068
Cyclohexane	ND		mg/kg	0.50	0.027
Bromochloromethane	ND		mg/kg	0.10	0.010
Chloroform	ND		mg/kg	0.075	0.0070
Carbon tetrachloride	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.025	0.0084
2-Butanone	ND		mg/kg	0.50	0.11
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Methyl cyclohexane	ND		mg/kg	0.20	0.030
Trichloroethene	ND		mg/kg	0.025	0.0068
1,2-Dichloropropane	ND		mg/kg	0.050	0.0062
Bromodichloromethane	ND		mg/kg	0.025	0.0054

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 20:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,03-05 Batch: WG1565247-5					
1,4-Dioxane	ND		mg/kg	4.0	1.8
cis-1,3-Dichloropropene	ND		mg/kg	0.025	0.0079
Toluene	0.030	J	mg/kg	0.050	0.027
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.064
Tetrachloroethene	ND		mg/kg	0.025	0.0098
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.014
1,3-Dichloropropene, Total	ND		mg/kg	0.025	0.0079
1,1,2-Trichloroethane	ND		mg/kg	0.050	0.013
Dibromochloromethane	ND		mg/kg	0.050	0.0070
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
2-Hexanone	ND		mg/kg	0.50	0.059
Chlorobenzene	ND		mg/kg	0.025	0.0064
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Styrene	ND		mg/kg	0.050	0.0098
Bromoform	ND		mg/kg	0.20	0.012
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.025	0.0083
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017
1,3-Dichlorobenzene	ND		mg/kg	0.10	0.0074
1,4-Dichlorobenzene	ND		mg/kg	0.10	0.0086
1,2-Dichlorobenzene	ND		mg/kg	0.10	0.0072
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.050
1,2,4-Trichlorobenzene	ND		mg/kg	0.10	0.014
1,2,3-Trichlorobenzene	ND		mg/kg	0.10	0.016

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 20:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,03-05 Batch: WG1565247-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	91		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678
Lab Number: L2158500
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,06-07 Batch: WG1565246-3 WG1565246-4								
Dichlorodifluoromethane	84		85		30-146	1		30
Chloromethane	105		107		52-130	2		30
Vinyl chloride	82		84		67-130	2		30
Bromomethane	57		58		57-147	2		30
Chloroethane	69		72		50-151	4		30
Trichlorofluoromethane	75		77		70-139	3		30
1,1-Dichloroethene	83		86		65-135	4		30
Carbon disulfide	69		70		59-130	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	87		90		50-139	3		30
Methylene chloride	76		78		70-130	3		30
Acetone	96		100		54-140	4		30
trans-1,2-Dichloroethene	84		84		70-130	0		30
Methyl Acetate	93		98		51-146	5		30
Methyl tert butyl ether	75		77		66-130	3		30
1,1-Dichloroethane	95		99		70-130	4		30
cis-1,2-Dichloroethene	81		84		70-130	4		30
Cyclohexane	105		109		59-142	4		30
Bromochloromethane	84		88		70-130	5		30
Chloroform	78		81		70-130	4		30
Carbon tetrachloride	83		86		70-130	4		30
1,1,1-Trichloroethane	82		84		70-130	2		30
2-Butanone	73		83		70-130	13		30
Benzene	81		83		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,06-07 Batch: WG1565246-3 WG1565246-4								
1,2-Dichloroethane	88		91		70-130	3		30
Methyl cyclohexane	80		82		70-130	2		30
Trichloroethene	81		83		70-130	2		30
1,2-Dichloropropane	97		100		70-130	3		30
Bromodichloromethane	80		81		70-130	1		30
cis-1,3-Dichloropropene	86		89		70-130	3		30
Toluene	82		84		70-130	2		30
4-Methyl-2-pentanone	105		106		70-130	1		30
Tetrachloroethene	88		90		70-130	2		30
trans-1,3-Dichloropropene	87		90		70-130	3		30
1,1,2-Trichloroethane	85		88		70-130	3		30
Dibromochloromethane	90		94		70-130	4		30
1,2-Dibromoethane	83		85		70-130	2		30
2-Hexanone	96		99		70-130	3		30
Chlorobenzene	84		86		70-130	2		30
Ethylbenzene	82		84		70-130	2		30
p/m-Xylene	85		87		70-130	2		30
o-Xylene	85		88		70-130	3		30
Styrene	84		86		70-130	2		30
Bromoform	95		97		70-130	2		30
Isopropylbenzene	88		90		70-130	2		30
1,1,2,2-Tetrachloroethane	88		91		70-130	3		30
1,2,4-Trimethylbenzene	87		88		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.

Project Number: 30108678

Lab Number: L2158500

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,06-07 Batch: WG1565246-3 WG1565246-4								
1,3-Dichlorobenzene	91		92		70-130	1		30
1,4-Dichlorobenzene	88		90		70-130	2		30
1,2-Dichlorobenzene	92		94		70-130	2		30
1,2-Dibromo-3-chloropropane	81		86		68-130	6		30
1,2,4-Trichlorobenzene	95		96		70-130	1		30
1,2,3-Trichlorobenzene	94		96		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	93		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1565247-3 WG1565247-4								
Dichlorodifluoromethane	84		85		30-146	1		30
Chloromethane	105		107		52-130	2		30
Vinyl chloride	82		84		67-130	2		30
Bromomethane	57		58		57-147	2		30
Chloroethane	69		72		50-151	4		30
Trichlorofluoromethane	75		77		70-139	3		30
1,1-Dichloroethene	83		86		65-135	4		30
Carbon disulfide	69		70		59-130	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	87		90		50-139	3		30
Methylene chloride	76		78		70-130	3		30
Acetone	96		100		54-140	4		30
trans-1,2-Dichloroethene	84		84		70-130	0		30
Methyl Acetate	93		98		51-146	5		30
Methyl tert butyl ether	75		77		66-130	3		30
1,1-Dichloroethane	95		99		70-130	4		30
cis-1,2-Dichloroethene	81		84		70-130	4		30
Cyclohexane	105		109		59-142	4		30
Bromochloromethane	84		88		70-130	5		30
Chloroform	78		81		70-130	4		30
Carbon tetrachloride	83		86		70-130	4		30
1,1,1-Trichloroethane	82		84		70-130	2		30
2-Butanone	73		83		70-130	13		30
Benzene	81		83		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1565247-3 WG1565247-4								
1,2-Dichloroethane	88		91		70-130	3		30
Methyl cyclohexane	80		82		70-130	2		30
Trichloroethene	81		83		70-130	2		30
1,2-Dichloropropane	97		100		70-130	3		30
Bromodichloromethane	80		81		70-130	1		30
cis-1,3-Dichloropropene	86		89		70-130	3		30
Toluene	82		84		70-130	2		30
4-Methyl-2-pentanone	105		106		70-130	1		30
Tetrachloroethene	88		90		70-130	2		30
trans-1,3-Dichloropropene	87		90		70-130	3		30
1,1,2-Trichloroethane	85		88		70-130	3		30
Dibromochloromethane	90		94		70-130	4		30
1,2-Dibromoethane	83		85		70-130	2		30
2-Hexanone	96		99		70-130	3		30
Chlorobenzene	84		86		70-130	2		30
Ethylbenzene	82		84		70-130	2		30
p/m-Xylene	85		87		70-130	2		30
o-Xylene	85		88		70-130	3		30
Styrene	84		86		70-130	2		30
Bromoform	95		97		70-130	2		30
Isopropylbenzene	88		90		70-130	2		30
1,1,2,2-Tetrachloroethane	88		91		70-130	3		30
1,2,4-Trimethylbenzene	87		88		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678
Lab Number: L2158500
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1565247-3 WG1565247-4								
1,3-Dichlorobenzene	91		92		70-130	1		30
1,4-Dichlorobenzene	88		90		70-130	2		30
1,2-Dichlorobenzene	92		94		70-130	2		30
1,2-Dibromo-3-chloropropane	81		86		68-130	6		30
1,2,4-Trichlorobenzene	95		96		70-130	1		30
1,2,3-Trichlorobenzene	94		96		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	93		93		70-130

SEMIVOLATILES

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678
Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/05/21 10:59
Analyst: WR
Percent Solids: 63%

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	1.7	0.35	5
Phenol	ND		mg/kg	1.3	0.19	5
2-Chlorophenol	ND		mg/kg	1.3	0.15	5
2-Methylphenol	ND		mg/kg	1.3	0.20	5
Bis(2-chloroisopropyl)ether	ND		mg/kg	1.5	0.22	5
Acetophenone	ND		mg/kg	1.3	0.16	5
1,4-Dioxane	ND		mg/kg	0.19	0.059	5
3-Methylphenol/4-Methylphenol	ND		mg/kg	1.8	0.20	5
Hexachloroethane	ND		mg/kg	1.0	0.21	5
Nitrobenzene	ND		mg/kg	1.2	0.19	5
Isophorone	ND		mg/kg	1.2	0.17	5
2-Nitrophenol	ND		mg/kg	2.8	0.48	5
2,4-Dimethylphenol	ND		mg/kg	1.3	0.42	5
Bis(2-chloroethoxy)methane	ND		mg/kg	1.4	0.13	5
2,4-Dichlorophenol	ND		mg/kg	1.2	0.21	5
Naphthalene	13.		mg/kg	1.3	0.16	5
4-Chloroaniline	ND		mg/kg	1.3	0.23	5
Hexachlorobutadiene	ND		mg/kg	1.3	0.19	5
Caprolactam	ND		mg/kg	1.3	0.39	5
p-Chloro-m-cresol	ND		mg/kg	1.3	0.19	5
2-Methylnaphthalene	23.		mg/kg	1.5	0.16	5
Hexachlorocyclopentadiene	ND		mg/kg	3.7	1.2	5
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	1.3	0.13	5
2,4,6-Trichlorophenol	ND		mg/kg	0.77	0.24	5
2,4,5-Trichlorophenol	ND		mg/kg	1.3	0.25	5
Biphenyl	2.8	J	mg/kg	2.9	0.30	5
2-Chloronaphthalene	ND		mg/kg	1.3	0.13	5
2-Nitroaniline	ND		mg/kg	1.3	0.25	5

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	1.3	0.27	5
2,6-Dinitrotoluene	ND		mg/kg	1.3	0.22	5
Acenaphthylene	ND		mg/kg	1.0	0.20	5
3-Nitroaniline	ND		mg/kg	1.3	0.24	5
Acenaphthene	3.1		mg/kg	1.0	0.13	5
2,4-Dinitrophenol	ND		mg/kg	6.2	0.60	5
4-Nitrophenol	ND		mg/kg	1.8	0.52	5
2,4-Dinitrotoluene	ND		mg/kg	1.3	0.26	5
Dibenzofuran	1.7		mg/kg	1.3	0.12	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	1.3	0.26	5
Diethyl phthalate	ND		mg/kg	1.3	0.12	5
Fluorene	2.8		mg/kg	1.3	0.12	5
4-Chlorophenyl phenyl ether	ND		mg/kg	1.3	0.14	5
4-Nitroaniline	ND		mg/kg	1.3	0.53	5
4,6-Dinitro-o-cresol	ND		mg/kg	3.3	0.62	5
NDPA/DPA	ND		mg/kg	1.0	0.15	5
4-Bromophenyl phenyl ether	ND		mg/kg	1.3	0.20	5
Hexachlorobenzene	ND		mg/kg	0.77	0.14	5
Pentachlorophenol	ND		mg/kg	1.0	0.28	5
Atrazine	ND		mg/kg	1.0	0.45	5
Phenanthrene	8.4		mg/kg	0.77	0.16	5
Anthracene	1.1		mg/kg	0.77	0.25	5
Carbazole	ND		mg/kg	1.3	0.12	5
Di-n-butylphthalate	ND		mg/kg	1.3	0.24	5
Fluoranthene	2.6		mg/kg	0.77	0.15	5
Pyrene	2.2		mg/kg	0.77	0.13	5
Butyl benzyl phthalate	ND		mg/kg	1.3	0.32	5
3,3'-Dichlorobenzidine	ND		mg/kg	1.3	0.34	5
Benzo(a)anthracene	0.62	J	mg/kg	0.77	0.14	5
Chrysene	0.53	J	mg/kg	0.77	0.13	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	1.3	0.44	5
Di-n-octylphthalate	ND		mg/kg	1.3	0.44	5
Benzo(b)fluoranthene	0.47	J	mg/kg	0.77	0.22	5
Benzo(k)fluoranthene	0.20	J	mg/kg	0.77	0.20	5
Benzo(a)pyrene	0.36	J	mg/kg	1.0	0.31	5
Indeno(1,2,3-cd)pyrene	0.22	J	mg/kg	1.0	0.18	5
Dibenzo(a,h)anthracene	ND		mg/kg	0.77	0.15	5

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.20	J	mg/kg	1.0	0.15	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	52		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	46		18-120

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678
Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 11/05/21 14:02
Analyst: WR
Percent Solids: 63%

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	1.2		mg/kg	0.26	0.072	5
n-Nitrosodi-n-propylamine	ND		mg/kg	0.26	0.067	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	49		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	41		18-120

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05
Client ID: SB-105 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 11/05/21 12:56
Analyst: WR
Percent Solids: 55%

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.060	0.017	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.060	0.016	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		25-120
Phenol-d6	57		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	31		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	29		18-120

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05 D
Client ID: SB-105 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/05/21 11:46
Analyst: WR
Percent Solids: 55%

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	2.0	0.40	5
Phenol	ND		mg/kg	1.5	0.23	5
2-Chlorophenol	ND		mg/kg	1.5	0.18	5
2-Methylphenol	ND		mg/kg	1.5	0.23	5
Bis(2-chloroisopropyl)ether	ND		mg/kg	1.8	0.26	5
Acetophenone	ND		mg/kg	1.5	0.18	5
1,4-Dioxane	ND		mg/kg	0.22	0.068	5
3-Methylphenol/4-Methylphenol	ND		mg/kg	2.2	0.23	5
Hexachloroethane	ND		mg/kg	1.2	0.24	5
Nitrobenzene	ND		mg/kg	1.3	0.22	5
Isophorone	ND		mg/kg	1.3	0.19	5
2-Nitrophenol	ND		mg/kg	3.2	0.56	5
2,4-Dimethylphenol	ND		mg/kg	1.5	0.49	5
Bis(2-chloroethoxy)methane	ND		mg/kg	1.6	0.15	5
2,4-Dichlorophenol	ND		mg/kg	1.3	0.24	5
Naphthalene	7.5		mg/kg	1.5	0.18	5
4-Chloroaniline	ND		mg/kg	1.5	0.27	5
Hexachlorobutadiene	ND		mg/kg	1.5	0.22	5
Caprolactam	ND		mg/kg	1.5	0.46	5
p-Chloro-m-cresol	ND		mg/kg	1.5	0.22	5
2-Methylnaphthalene	19.		mg/kg	1.8	0.18	5
Hexachlorocyclopentadiene	ND		mg/kg	4.3	1.4	5
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	1.5	0.16	5
2,4,6-Trichlorophenol	ND		mg/kg	0.90	0.28	5
2,4,5-Trichlorophenol	ND		mg/kg	1.5	0.29	5
Biphenyl	0.82	J	mg/kg	3.4	0.35	5
2-Chloronaphthalene	ND		mg/kg	1.5	0.15	5
2-Nitroaniline	ND		mg/kg	1.5	0.29	5

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05 D
Client ID: SB-105 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	1.5	0.31	5
2,6-Dinitrotoluene	ND		mg/kg	1.5	0.26	5
Acenaphthylene	ND		mg/kg	1.2	0.23	5
3-Nitroaniline	ND		mg/kg	1.5	0.28	5
Acenaphthene	3.1		mg/kg	1.2	0.16	5
2,4-Dinitrophenol	ND		mg/kg	7.2	0.70	5
4-Nitrophenol	ND		mg/kg	2.1	0.61	5
2,4-Dinitrotoluene	ND		mg/kg	1.5	0.30	5
Dibenzofuran	1.4	J	mg/kg	1.5	0.14	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	1.5	0.30	5
Diethyl phthalate	ND		mg/kg	1.5	0.14	5
Fluorene	1.6		mg/kg	1.5	0.14	5
4-Chlorophenyl phenyl ether	ND		mg/kg	1.5	0.16	5
4-Nitroaniline	ND		mg/kg	1.5	0.62	5
4,6-Dinitro-o-cresol	ND		mg/kg	3.9	0.72	5
NDPA/DPA	ND		mg/kg	1.2	0.17	5
4-Bromophenyl phenyl ether	ND		mg/kg	1.5	0.23	5
Hexachlorobenzene	ND		mg/kg	0.90	0.17	5
Pentachlorophenol	ND		mg/kg	1.2	0.33	5
Atrazine	ND		mg/kg	1.2	0.52	5
Phenanthrene	3.1		mg/kg	0.90	0.18	5
Anthracene	0.52	J	mg/kg	0.90	0.29	5
Carbazole	ND		mg/kg	1.5	0.14	5
Di-n-butylphthalate	ND		mg/kg	1.5	0.28	5
Fluoranthene	0.71	J	mg/kg	0.90	0.17	5
Pyrene	0.58	J	mg/kg	0.90	0.15	5
Butyl benzyl phthalate	ND		mg/kg	1.5	0.38	5
3,3'-Dichlorobenzidine	ND		mg/kg	1.5	0.40	5
Benzo(a)anthracene	0.18	J	mg/kg	0.90	0.17	5
Chrysene	ND		mg/kg	0.90	0.16	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	1.5	0.52	5
Di-n-octylphthalate	ND		mg/kg	1.5	0.51	5
Benzo(b)fluoranthene	ND		mg/kg	0.90	0.25	5
Benzo(k)fluoranthene	ND		mg/kg	0.90	0.24	5
Benzo(a)pyrene	ND		mg/kg	1.2	0.36	5
Indeno(1,2,3-cd)pyrene	ND		mg/kg	1.2	0.21	5
Dibenzo(a,h)anthracene	ND		mg/kg	0.90	0.17	5

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05 D
Client ID: SB-105 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	ND		mg/kg	1.2	0.18	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	43		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	36		18-120

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/21 22:35
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05 Batch: WG1567282-1					
Benzaldehyde	ND		mg/kg	0.21	0.044
Phenol	ND		mg/kg	0.16	0.024
2-Chlorophenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.028
Acetophenone	ND		mg/kg	0.16	0.020
1,4-Dioxane	ND		mg/kg	0.024	0.0074
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.025
Hexachloroethane	ND		mg/kg	0.13	0.026
Nitrobenzene	ND		mg/kg	0.14	0.024
Isophorone	ND		mg/kg	0.14	0.021
2-Nitrophenol	ND		mg/kg	0.35	0.061
2,4-Dimethylphenol	ND		mg/kg	0.16	0.053
Bis(2-chloroethoxy)methane	ND		mg/kg	0.17	0.016
2,4-Dichlorophenol	ND		mg/kg	0.14	0.026
Naphthalene	ND		mg/kg	0.16	0.020
4-Chloroaniline	ND		mg/kg	0.16	0.029
Hexachlorobutadiene	ND		mg/kg	0.16	0.024
Caprolactam	ND		mg/kg	0.16	0.049
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Methylnaphthalene	ND		mg/kg	0.19	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.15
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.097	0.031
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Biphenyl	ND		mg/kg	0.37	0.038
2-Chloronaphthalene	ND		mg/kg	0.16	0.016
2-Nitroaniline	ND		mg/kg	0.16	0.031
Dimethyl phthalate	ND		mg/kg	0.16	0.034

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/21 22:35
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05 Batch: WG1567282-1					
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028
Acenaphthylene	ND		mg/kg	0.13	0.025
3-Nitroaniline	ND		mg/kg	0.16	0.030
Acenaphthene	ND		mg/kg	0.13	0.017
2,4-Dinitrophenol	ND		mg/kg	0.78	0.076
4-Nitrophenol	ND		mg/kg	0.23	0.066
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.032
Dibenzofuran	ND		mg/kg	0.16	0.015
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033
Diethyl phthalate	ND		mg/kg	0.16	0.015
Fluorene	ND		mg/kg	0.16	0.016
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.017
4-Nitroaniline	ND		mg/kg	0.16	0.067
4,6-Dinitro-o-cresol	ND		mg/kg	0.42	0.078
NDPA/DPA	ND		mg/kg	0.13	0.018
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025
Hexachlorobenzene	ND		mg/kg	0.097	0.018
Pentachlorophenol	ND		mg/kg	0.13	0.036
Atrazine	ND		mg/kg	0.13	0.057
Phenanthrene	ND		mg/kg	0.097	0.020
Anthracene	ND		mg/kg	0.097	0.032
Carbazole	ND		mg/kg	0.16	0.016
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Fluoranthene	ND		mg/kg	0.097	0.019
Pyrene	ND		mg/kg	0.097	0.016
Butyl benzyl phthalate	ND		mg/kg	0.16	0.041
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.043
Benzo(a)anthracene	ND		mg/kg	0.097	0.018
Chrysene	ND		mg/kg	0.097	0.017

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/21 22:35
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05 Batch: WG1567282-1					
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.056
Di-n-octylphthalate	ND		mg/kg	0.16	0.055
Benzo(b)fluoranthene	ND		mg/kg	0.097	0.027
Benzo(k)fluoranthene	ND		mg/kg	0.097	0.026
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.022
Dibenzo(a,h)anthracene	ND		mg/kg	0.097	0.019
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	60		18-120

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/05/21 11:50
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03,05 Batch: WG1567286-1					
Bis(2-chloroethyl)ether	ND		mg/kg	0.032	0.0090
n-Nitrosodi-n-propylamine	ND		mg/kg	0.032	0.0085

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	52		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.

Project Number: 30108678

Lab Number: L2158500

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG1567282-2 WG1567282-3								
Benzaldehyde	64		53		40-140	19		50
Phenol	62		52		26-90	18		50
2-Chlorophenol	68		56		25-102	19		50
2-Methylphenol	67		57		30-130	16		50
Bis(2-chloroisopropyl)ether	61		50		40-140	20		50
Acetophenone	68		58		14-144	16		50
1,4-Dioxane	51		44		30-130	15		50
3-Methylphenol/4-Methylphenol	68		59		30-130	14		50
Hexachloroethane	66		54		40-140	20		50
Nitrobenzene	66		55		40-140	18		50
Isophorone	65		55		40-140	17		50
2-Nitrophenol	68		58		30-130	16		50
2,4-Dimethylphenol	70		58		30-130	19		50
Bis(2-chloroethoxy)methane	64		54		40-117	17		50
2,4-Dichlorophenol	71		59		30-130	18		50
Naphthalene	58		54		40-140	7		50
4-Chloroaniline	59		52		40-140	13		50
Hexachlorobutadiene	62		58		40-140	7		50
Caprolactam	64		59		15-130	8		50
p-Chloro-m-cresol	66		60		26-103	10		50
2-Methylnaphthalene	61		57		40-140	7		50
Hexachlorocyclopentadiene	63		59		40-140	7		50
1,2,4,5-Tetrachlorobenzene	63		57		40-117	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG1567282-2 WG1567282-3								
2,4,6-Trichlorophenol	64		60		30-130	6		50
2,4,5-Trichlorophenol	67		59		30-130	13		50
Biphenyl	62		58		37-127	7		50
2-Chloronaphthalene	61		57		40-140	7		50
2-Nitroaniline	64		58		47-134	10		50
Dimethyl phthalate	62		57		40-140	8		50
2,6-Dinitrotoluene	64		59		40-140	8		50
Acenaphthylene	62		57		40-140	8		50
3-Nitroaniline	50		49		26-129	2		50
Acenaphthene	58		54		31-137	7		50
2,4-Dinitrophenol	48		42		4-130	13		50
4-Nitrophenol	64		59		11-114	8		50
2,4-Dinitrotoluene	62		58		40-132	7		50
Dibenzofuran	58		54		40-140	7		50
2,3,4,6-Tetrachlorophenol	64		59		58-132	8		50
Diethyl phthalate	59		56		40-140	5		50
Fluorene	58		54		40-140	7		50
4-Chlorophenyl phenyl ether	58		55		40-140	5		50
4-Nitroaniline	58		55		41-125	5		50
4,6-Dinitro-o-cresol	59		56		10-130	5		50
NDPA/DPA	59		56		36-157	5		50
4-Bromophenyl phenyl ether	60		56		40-140	7		50
Hexachlorobenzene	60		56		40-140	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.

Project Number: 30108678

Lab Number: L2158500

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG1567282-2 WG1567282-3								
Pentachlorophenol	64		59		17-109	8		50
Atrazine	66		63		40-140	5		50
Phenanthrene	57		55		40-140	4		50
Anthracene	59		56		40-140	5		50
Carbazole	60		56		54-128	7		50
Di-n-butylphthalate	59		56		40-140	5		50
Fluoranthene	60		57		40-140	5		50
Pyrene	61		57		35-142	7		50
Butyl benzyl phthalate	62		59		40-140	5		50
3,3'-Dichlorobenzidine	44		41		40-140	7		50
Benzo(a)anthracene	58		55		40-140	5		50
Chrysene	59		56		40-140	5		50
Bis(2-ethylhexyl)phthalate	58		55		40-140	5		50
Di-n-octylphthalate	60		57		40-140	5		50
Benzo(b)fluoranthene	62		60		40-140	3		50
Benzo(k)fluoranthene	61		58		40-140	5		50
Benzo(a)pyrene	63		59		40-140	7		50
Indeno(1,2,3-cd)pyrene	60		58		40-140	3		50
Dibenzo(a,h)anthracene	59		57		40-140	3		50
Benzo(ghi)perylene	59		57		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG1567282-2 WG1567282-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		58		25-120
Phenol-d6	72		61		10-120
Nitrobenzene-d5	66		56		23-120
2-Fluorobiphenyl	60		56		30-120
2,4,6-Tribromophenol	67		60		10-136
4-Terphenyl-d14	62		57		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.

Project Number: 30108678

Lab Number: L2158500

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03,05 Batch: WG1567286-2 WG1567286-3								
Bis(2-chloroethyl)ether	59		52		40-140	13		50
n-Nitrosodi-n-propylamine	62		55		40-140	12		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		50		25-120
Phenol-d6	57		50		10-120
Nitrobenzene-d5	59		51		23-120
2-Fluorobiphenyl	56		50		30-120
2,4,6-Tribromophenol	106		94		10-136
4-Terphenyl-d14	49		43		18-120

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-01
Client ID: SB-101 (1.5-2)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:15
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.1		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-02
Client ID: SB-102 (2.5-3)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:20
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	63.1		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-04
Client ID: SB-104 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	53.3		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05
Client ID: SB-105 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	55.0		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-06
Client ID: SB-106 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:55
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.8		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-07
Client ID: SB-107 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.5		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.

Project Number: 30108678

Lab Number: L2158500

Report Date: 11/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1563706-1 QC Sample: L2158500-01 Client ID: SB-101 (1.5-2)						
Solids, Total	70.1	68.4	%	2		20

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
C	Absent
D	Absent
E	Absent
G	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158500-01A	5 gram Encore Sampler	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-01B	5 gram Encore Sampler	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-01C	5 gram Encore Sampler	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-01D	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM(),TS(7)
L2158500-01X	Vial MeOH preserved split	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-01Y	Vial Water preserved split	C	NA		3.8	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-01Z	Vial Water preserved split	C	NA		3.8	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-02A	5 gram Encore Sampler	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-02B	5 gram Encore Sampler	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-02C	5 gram Encore Sampler	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-02D	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM(),TS(7)
L2158500-02X	Vial MeOH preserved split	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-02Y	Vial Water preserved split	C	NA		3.8	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-02Z	Vial Water preserved split	C	NA		3.8	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-03A	5 gram Encore Sampler	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-03B	5 gram Encore Sampler	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-03C	5 gram Encore Sampler	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-03D	Plastic 2oz unpreserved for TS	E	NA		3.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158500-03E	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM(),PA-8270SIM(14),PA-8270(14)
L2158500-03X	Vial MeOH preserved split	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-03Y	Vial Water preserved split	E	NA		3.2	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-03Z	Vial Water preserved split	E	NA		3.2	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-04A	5 gram Encore Sampler	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-04B	5 gram Encore Sampler	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-04C	5 gram Encore Sampler	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-04D	Plastic 2oz unpreserved for TS	D	NA		5.6	Y	Absent		TS(7)
L2158500-04E	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM()
L2158500-04X	Vial MeOH preserved split	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-04Y	Vial Water preserved split	D	NA		5.6	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-04Z	Vial Water preserved split	D	NA		5.6	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-05A	5 gram Encore Sampler	G	NA		3.1	Y	Absent		PA-8260HLW(14)
L2158500-05B	5 gram Encore Sampler	G	NA		3.1	Y	Absent		PA-8260HLW(14)
L2158500-05C	5 gram Encore Sampler	G	NA		3.1	Y	Absent		PA-8260HLW(14)
L2158500-05D	Plastic 2oz unpreserved for TS	G	NA		3.1	Y	Absent		TS(7)
L2158500-05E	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM(),PA-8270SIM(14),PA-8270(14)
L2158500-05X	Vial MeOH preserved split	G	NA		3.1	Y	Absent		PA-8260HLW(14)
L2158500-05Y	Vial Water preserved split	G	NA		3.1	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-05Z	Vial Water preserved split	G	NA		3.1	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-06A	5 gram Encore Sampler	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-06B	5 gram Encore Sampler	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-06C	5 gram Encore Sampler	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-06D	Plastic 2oz unpreserved for TS	D	NA		5.6	Y	Absent		TS(7)
L2158500-06E	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM()
L2158500-06X	Vial MeOH preserved split	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-06Y	Vial Water preserved split	D	NA		5.6	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-06Z	Vial Water preserved split	D	NA		5.6	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158500-07A	5 gram Encore Sampler	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-07B	5 gram Encore Sampler	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-07C	5 gram Encore Sampler	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-07D	Plastic 2oz unpreserved for TS	E	NA		3.2	Y	Absent		TS(7)
L2158500-07E	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM()
L2158500-07X	Vial MeOH preserved split	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-07Y	Vial Water preserved split	E	NA		3.2	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-07Z	Vial Water preserved split	E	NA		3.2	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158500

Client Information
Client: Arcadis
Address: 1 Harvard Way, Suite 5, Hillsborough, NJ 08844
Phone: 908 526 1600
Fax: 908 253 3295
Email: Larry.Brunt@arcadis.com

Project Information
Project Name: Alliance - S. 51st St
Project Location: Philadelphia, PA
Project #: 30108678
(Use Project name as Project #) ☐
Project Manager: Larry Brunt
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260	Hold Bottle	Volume to Analyze	Sample Specific Comments	Total Bottle
58500-01	SB-101 (1.5-2)	10/25/21	1415	SOIL	MH	X	X		Run VOCs; Hold all	3
-02	SB-102 (2.5-3)		1420			X	X			3
-03	SB-103 (4.5-5)		1425			X	X			3
-04	SB-104 (4.5-5)		1435			X	X			3
-05	SB-105 (4.5-5)		1445			X	X			3
-06	SB-106 (4.5-5)		1455			X	X			3
-07	SB-107 (4.5-5)		1500			X	X			3

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	E	A											
Preservative	A	A											

Relinquished By:	Date/Time	Received By:	Date/Time
MH	10/26/21 1300		
	10/26/21 1800		10/26/21 1340
	10-26-2130		10/26/21 2130
			10/27/21 0335
			10/27/21 07:35

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

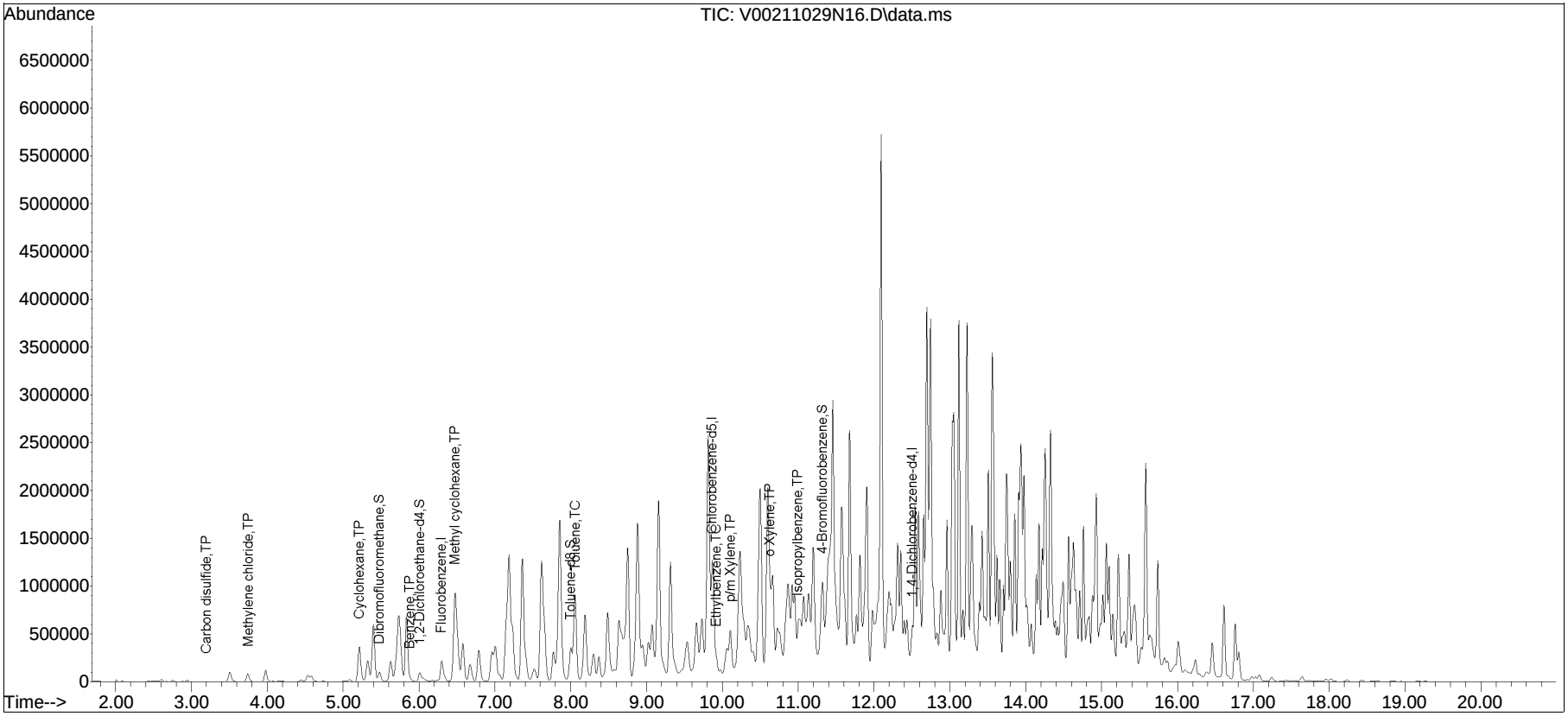
Form No: 01-14 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA100\2021\211029N\
Data File : V00211029N16.D
Acq On : 30 Oct 2021 1:42 am
Operator : VOA100:NLK
Sample : L2158500-01,31H,3.89,5,0.100,,X
Misc : WG1565247,ICAL18132
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 30 11:32:05 2021
Quant Method : I:\VOLATILES\VOA100\2021\211029N\V100_210708N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 09 13:15:36 2021
Response via : Initial Calibration

Sub List : 8260-NJ+TBA - Standard NJ plus TBA Sublist1029N01.D•

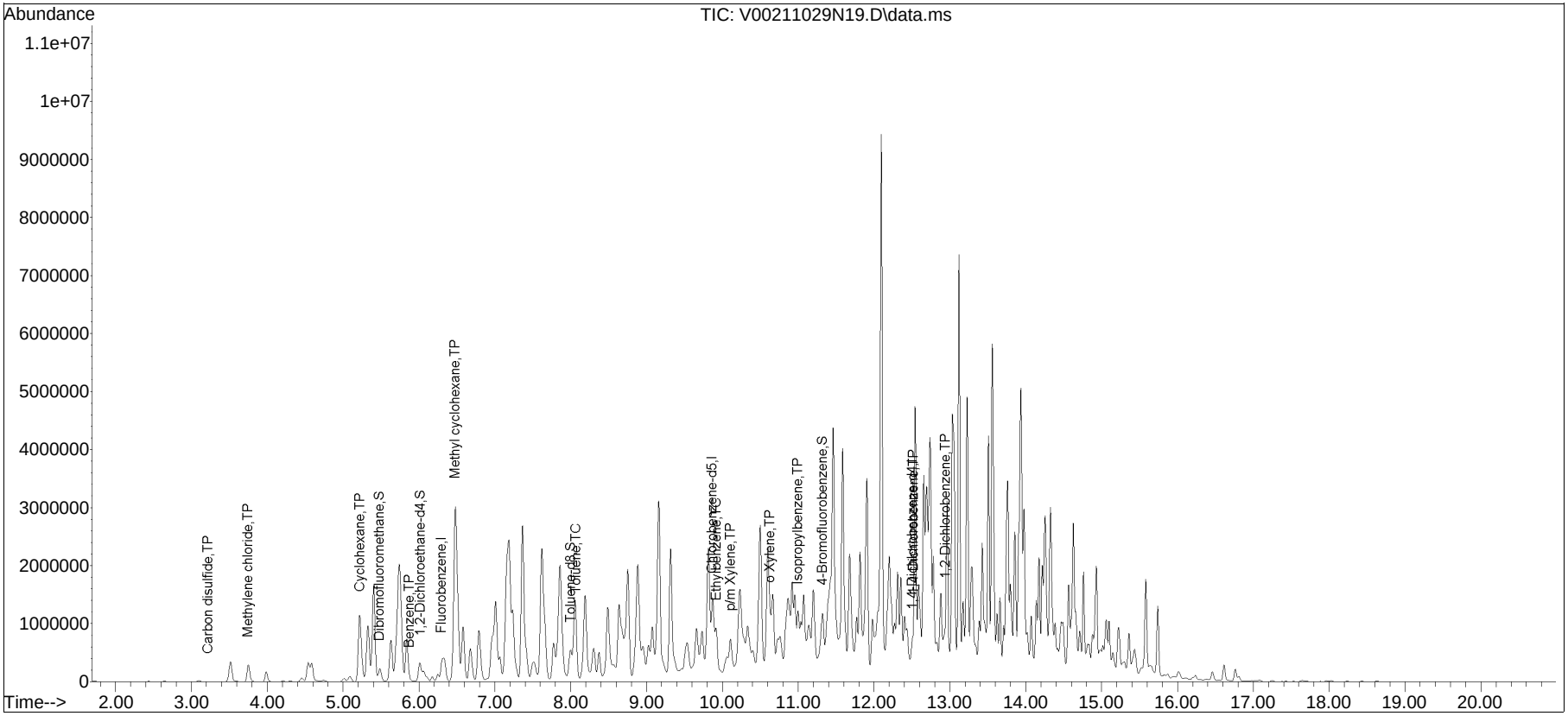


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA100\2021\211029N\
Data File : V00211029N19.D
Acq On : 30 Oct 2021 3:00 am
Operator : VOA100:NLK
Sample : L2158500-03D,31H,3.90,5,0.050,,X
Misc : WG1565247,ICAL18132
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 30 11:33:30 2021
Quant Method : I:\VOLATILES\VOA100\2021\211029N\V100_210708N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 09 13:15:36 2021
Response via : Initial Calibration

Sub List : 8260-NJ+TBA - Standard NJ plus TBA Sublist1029N01.D•

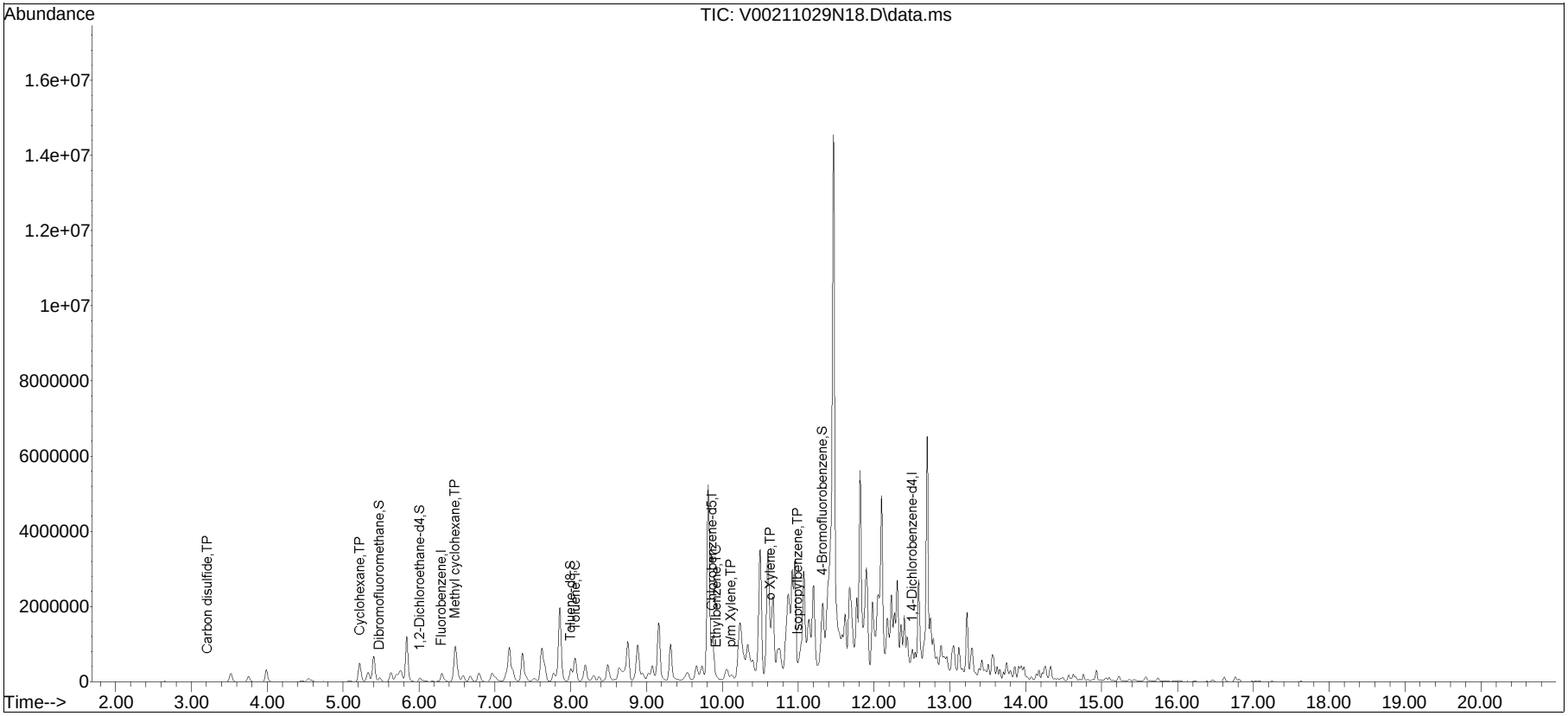


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA100\2021\211029N\
Data File : V00211029N18.D
Acq On : 30 Oct 2021 2:34 am
Operator : VOA100:NLK
Sample : L2158500-04D,31H,4.49,5,0.050,,X
Misc : WG1565247,ICAL18132
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 30 11:32:47 2021
Quant Method : I:\VOLATILES\VOA100\2021\211029N\V100_210708N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 09 13:15:36 2021
Response via : Initial Calibration

Sub List : 8260-NJ+TBA - Standard NJ plus TBA Sublist1029N01.D•



ANALYTICAL REPORT

Lab Number:	L2213931
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678.03C
Report Date:	04/12/22

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2213931-01	MW-8 (5.5-6)	SOIL	PHILA., PA	03/16/22 12:10	03/17/22
L2213931-02	SB-201 (8.5-9)	SOIL	PHILA., PA	03/16/22 14:05	03/17/22
L2213931-03	SB-202 (8.5-9)	SOIL	PHILA., PA	03/16/22 14:20	03/17/22
L2213931-04	SB-203 (8.5-9)	SOIL	PHILA., PA	03/16/22 14:30	03/17/22
L2213931-05	SB-204 (8.5-9)	SOIL	PHILA., PA	03/16/22 14:35	03/17/22
L2213931-06	SB-205 (3.5-4)	SOIL	PHILA., PA	03/16/22 14:45	03/17/22
L2213931-07	SB-206 (2.5-3)	SOIL	PHILA., PA	03/17/22 08:35	03/17/22
L2213931-08	SB-207 (4-4.5)	SOIL	PHILA., PA	03/17/22 08:50	03/17/22
L2213931-09	SB-208 (4-4.5)	SOIL	PHILA., PA	03/17/22 09:00	03/17/22
L2213931-10	SB-209 (3.5-4)	SOIL	PHILA., PA	03/17/22 09:25	03/17/22
L2213931-11	SB-210 (4-4.5)	SOIL	PHILA., PA	03/17/22 09:35	03/17/22
L2213931-12	SB-211 (3.5-4)	SOIL	PHILA., PA	03/17/22 09:40	03/17/22
L2213931-13	SB-212 (4.5-5)	SOIL	PHILA., PA	03/17/22 10:00	03/17/22
L2213931-14	SB-213 (4-4.5)	SOIL	PHILA., PA	03/17/22 10:10	03/17/22
L2213931-15	SB-214 (4-4.5)	SOIL	PHILA., PA	03/17/22 10:20	03/17/22
L2213931-16	SB-215 (4.5-5)	SOIL	PHILA., PA	03/17/22 10:30	03/17/22
L2213931-17	SB-216 (3.5-4)	SOIL	PHILA., PA	03/17/22 10:40	03/17/22
L2213931-18	SB-217 (8.5-9)	SOIL	PHILA., PA	03/17/22 11:25	03/17/22
L2213931-19	DUP-1	SOIL	PHILA., PA	03/17/22 00:00	03/17/22
L2213931-20	FIELD BLANK	WATER	PHILA., PA	03/17/22 11:35	03/17/22
L2213931-21	TRIP BLANK	WATER	PHILA., PA	03/17/22 00:00	03/17/22

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

Case Narrative (continued)

Report Revision

April 12, 2022: The Volatile Organics reporting list has been amended to include Naphthalene, 1,2,4-Trimethylbenzene, and 1,3,5-Trimethylbenzene. Additionally, the Client IDs have been corrected on L2213931-02 through -18.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2213931-02D, -06D, and -18D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

The surrogate recovery for the following samples is outside the acceptance criteria for 4-bromofluorobenzene; however, the samples were not re-analyzed due to coelution with an obvious interference. Copies of the chromatograms are included as an attachment to this report:

L2213931-02D: 150%

L2213931-05D: 213%

L2213931-06D: 133%

L2213931-07: 220%

L2213931-08 (Low Level): 132%

L2213931-18D: 155%

L2213931-04: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (198%) due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2213931-05D: The surrogate recovery is outside the method acceptance criteria for dibromofluoromethane (62%) due to interference with the Internal Standard.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

Case Narrative (continued)

L2213931-08: The sample was analyzed as a High Level Methanol based upon screen results. The sample was then analyzed as a Low Level in order to achieve lower reporting limits. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies.

L2213931-14D, -16 (High and Low Levels), -16R, and -19 (High and Low Levels): The result for naphthalene should be considered estimated, and is qualified with an E flag. The sample was not re-analyzed on dilution.

L2213931-16 (Low Level): The internal standard (IS) response for 1,4-dichlorobenzene-d4 (29%) and the surrogate recovery for 4-bromofluorobenzene (150%) were outside the acceptance criteria; however, re-analysis achieved the following results: chlorobenzene-d5 (46%), 1,4-dichlorobenzene-d4 (25%), and 4-bromofluorobenzene (149%). The results of both analyses are reported.

L2213931-16: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported.

L2213931-17 (High Level): The concentration of napthalene should be considered estimated due to suspected contamination from a previously analyzed, highly concentrated sample.

L2213931-17 and -19: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the Volatile Organics by EPA Method 5035/8260 High and Low Level analyses which have been attributed to sample non-homogeneity.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 04/12/22

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-01
Client ID: MW-8 (5.5-6)
Sample Location: PHILA., PA

Date Collected: 03/16/22 12:10
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 09:19
Analyst: KJD
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0045	0.0010	1
Vinyl chloride	ND		mg/kg	0.0011	0.00038	1
Bromomethane	ND		mg/kg	0.0023	0.00066	1
Chloroethane	ND		mg/kg	0.0023	0.00051	1
Trichlorofluoromethane	ND		mg/kg	0.0045	0.00079	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00027	1
Carbon disulfide	ND		mg/kg	0.011	0.0052	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0045	0.00079	1
Methylene chloride	ND		mg/kg	0.0057	0.0026	1
Acetone	0.021	J	mg/kg	0.028	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00016	1
Methyl Acetate	ND		mg/kg	0.0045	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00016	1
Cyclohexane	ND		mg/kg	0.011	0.00062	1
Bromochloromethane	ND		mg/kg	0.0023	0.00023	1
Chloroform	ND		mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00057	0.00019	1
2-Butanone	0.0031	J	mg/kg	0.011	0.0025	1
Benzene	ND		mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Methyl cyclohexane	0.00090	J	mg/kg	0.0045	0.00068	1
Trichloroethene	ND		mg/kg	0.00057	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-01 Date Collected: 03/16/22 12:10

Client ID: MW-8 (5.5-6) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00057	0.00012	1
1,4-Dioxane	ND		mg/kg	0.091	0.040	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00057	0.00018	1
Toluene	0.00064	J	mg/kg	0.0011	0.00062	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00057	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00031	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00057	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00030	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00033	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00057	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0023	0.00064	1
o-Xylene	ND		mg/kg	0.0011	0.00033	1
Xylenes, Total	ND		mg/kg	0.0011	0.00033	1
Styrene	0.00027	J	mg/kg	0.0011	0.00022	1
Bromoform	ND		mg/kg	0.0045	0.00028	1
Isopropylbenzene	0.00028	J	mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00057	0.00019	1
1,3,5-Trimethylbenzene	0.00037	J	mg/kg	0.0023	0.00022	1
1,2,4-Trimethylbenzene	0.0011	J	mg/kg	0.0023	0.00038	1
1,3-Dichlorobenzene	ND		mg/kg	0.0023	0.00017	1
1,4-Dichlorobenzene	ND		mg/kg	0.0023	0.00019	1
1,2-Dichlorobenzene	ND		mg/kg	0.0023	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0034	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0023	0.00031	1
Naphthalene	0.0018	J	mg/kg	0.0045	0.00074	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0023	0.00037	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-01 Date Collected: 03/16/22 12:10

Client ID: MW-8 (5.5-6) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.0885	J	mg/kg			1
Unknown Aromatic	0.0102	J	mg/kg			1
Unknown	0.00638	J	mg/kg			1
Unknown Alkane	0.00924	J	mg/kg			1
Unknown Naphthalene	0.00985	J	mg/kg			1
Unknown Benzene	0.00636	J	mg/kg			1
Unknown	0.00620	J	mg/kg			1
Unknown Aromatic	0.00907	J	mg/kg			1
Unknown Aromatic	0.0117	J	mg/kg			1
Unknown	0.00926	J	mg/kg			1
Unknown Naphthalene	0.0102	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-02 D
Client ID: SB-201 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:05
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 09:42
Analyst: KJD
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	5.1	0.47	5
Chloromethane	ND		mg/kg	2.0	0.48	5
Vinyl chloride	ND		mg/kg	0.51	0.17	5
Bromomethane	ND		mg/kg	1.0	0.30	5
Chloroethane	ND		mg/kg	1.0	0.23	5
Trichlorofluoromethane	ND		mg/kg	2.0	0.36	5
1,1-Dichloroethene	ND		mg/kg	0.51	0.12	5
Carbon disulfide	ND		mg/kg	5.1	2.3	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	2.0	0.36	5
Methylene chloride	ND		mg/kg	2.6	1.2	5
Acetone	ND		mg/kg	5.1	2.5	5
trans-1,2-Dichloroethene	ND		mg/kg	0.77	0.070	5
Methyl Acetate	1.8	J	mg/kg	2.0	0.49	5
Methyl tert butyl ether	ND		mg/kg	1.0	0.10	5
1,1-Dichloroethane	ND		mg/kg	0.51	0.074	5
cis-1,2-Dichloroethene	ND		mg/kg	0.51	0.090	5
1,2-Dichloroethene, Total	ND		mg/kg	0.51	0.070	5
Cyclohexane	0.30	J	mg/kg	5.1	0.28	5
Bromochloromethane	ND		mg/kg	1.0	0.10	5
Chloroform	ND		mg/kg	0.77	0.072	5
Carbon tetrachloride	ND		mg/kg	0.51	0.12	5
1,1,1-Trichloroethane	ND		mg/kg	0.26	0.086	5
2-Butanone	ND		mg/kg	5.1	1.1	5
Benzene	ND		mg/kg	0.26	0.085	5
1,2-Dichloroethane	ND		mg/kg	0.51	0.13	5
Methyl cyclohexane	4.1		mg/kg	2.0	0.31	5
Trichloroethene	ND		mg/kg	0.26	0.070	5
1,2-Dichloropropane	ND		mg/kg	0.51	0.064	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-02 D Date Collected: 03/16/22 14:05

Client ID: SB-201 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.26	0.056	5
1,4-Dioxane	ND		mg/kg	41	18.	5
cis-1,3-Dichloropropene	ND		mg/kg	0.26	0.081	5
Toluene	ND		mg/kg	0.51	0.28	5
4-Methyl-2-pentanone	ND		mg/kg	5.1	0.66	5
Tetrachloroethene	ND		mg/kg	0.26	0.10	5
trans-1,3-Dichloropropene	ND		mg/kg	0.51	0.14	5
1,3-Dichloropropene, Total	ND		mg/kg	0.26	0.081	5
1,1,2-Trichloroethane	ND		mg/kg	0.51	0.14	5
Dibromochloromethane	ND		mg/kg	0.51	0.072	5
1,2-Dibromoethane	ND		mg/kg	0.26	0.15	5
2-Hexanone	ND		mg/kg	5.1	0.61	5
Chlorobenzene	ND		mg/kg	0.26	0.065	5
Ethylbenzene	ND		mg/kg	0.51	0.072	5
p/m-Xylene	ND		mg/kg	1.0	0.29	5
o-Xylene	ND		mg/kg	0.51	0.15	5
Xylenes, Total	ND		mg/kg	0.51	0.15	5
Styrene	ND		mg/kg	0.51	0.10	5
Bromoform	ND		mg/kg	2.0	0.13	5
Isopropylbenzene	1.4		mg/kg	0.51	0.056	5
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.26	0.085	5
1,3,5-Trimethylbenzene	0.12	J	mg/kg	1.0	0.099	5
1,2,4-Trimethylbenzene	0.27	J	mg/kg	1.0	0.17	5
1,3-Dichlorobenzene	ND		mg/kg	1.0	0.076	5
1,4-Dichlorobenzene	ND		mg/kg	1.0	0.088	5
1,2-Dichlorobenzene	ND		mg/kg	1.0	0.074	5
1,2-Dibromo-3-chloropropane	ND		mg/kg	1.5	0.51	5
1,2,4-Trichlorobenzene	ND		mg/kg	1.0	0.14	5
Naphthalene	0.41	J	mg/kg	2.0	0.33	5
1,2,3-Trichlorobenzene	ND		mg/kg	1.0	0.16	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-02 D Date Collected: 03/16/22 14:05

Client ID: SB-201 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	336.	J	mg/kg			5
Unknown Aromatic	32.6	J	mg/kg			5
Unknown	33.6	J	mg/kg			5
Unknown	34.5	J	mg/kg			5
Unknown Aromatic	39.1	J	mg/kg			5
Unknown Benzene	26.0	J	mg/kg			5
Unknown	37.4	J	mg/kg			5
Unknown	39.3	J	mg/kg			5
Unknown	25.6	J	mg/kg			5
Unknown	40.0	J	mg/kg			5
Unknown Cyclohexane	27.9	J	mg/kg			5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	**150**	Q	70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-03 D2 Date Collected: 03/16/22 14:20
Client ID: SB-202 (8.5-9) Date Received: 03/17/22
Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/28/22 16:53
Analyst: KJD
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	8.1	0.74	10
Chloromethane	ND		mg/kg	3.2	0.75	10
Vinyl chloride	ND		mg/kg	0.81	0.27	10
Bromomethane	ND		mg/kg	1.6	0.47	10
Chloroethane	ND		mg/kg	1.6	0.36	10
Trichlorofluoromethane	ND		mg/kg	3.2	0.56	10
1,1-Dichloroethene	ND		mg/kg	0.81	0.19	10
Carbon disulfide	ND		mg/kg	8.1	3.7	10
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	3.2	0.56	10
Methylene chloride	ND		mg/kg	4.0	1.8	10
Acetone	ND		mg/kg	8.1	3.9	10
trans-1,2-Dichloroethene	ND		mg/kg	1.2	0.11	10
Methyl Acetate	ND		mg/kg	3.2	0.77	10
Methyl tert butyl ether	ND		mg/kg	1.6	0.16	10
1,1-Dichloroethane	ND		mg/kg	0.81	0.12	10
cis-1,2-Dichloroethene	ND		mg/kg	0.81	0.14	10
1,2-Dichloroethene, Total	ND		mg/kg	0.81	0.11	10
Cyclohexane	41.		mg/kg	8.1	0.44	10
Bromochloromethane	ND		mg/kg	1.6	0.16	10
Chloroform	ND		mg/kg	1.2	0.11	10
Carbon tetrachloride	ND		mg/kg	0.81	0.18	10
1,1,1-Trichloroethane	ND		mg/kg	0.40	0.13	10
2-Butanone	ND		mg/kg	8.1	1.8	10
Benzene	2.6		mg/kg	0.40	0.13	10
1,2-Dichloroethane	ND		mg/kg	0.81	0.21	10
Methyl cyclohexane	260	E	mg/kg	3.2	0.49	10
Trichloroethene	ND		mg/kg	0.40	0.11	10
1,2-Dichloropropane	ND		mg/kg	0.81	0.10	10

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-03 D2 Date Collected: 03/16/22 14:20

Client ID: SB-202 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.40	0.088	10
1,4-Dioxane	ND		mg/kg	65	28.	10
cis-1,3-Dichloropropene	ND		mg/kg	0.40	0.13	10
Toluene	1.9		mg/kg	0.81	0.44	10
4-Methyl-2-pentanone	ND		mg/kg	8.1	1.0	10
Tetrachloroethene	ND		mg/kg	0.40	0.16	10
trans-1,3-Dichloropropene	ND		mg/kg	0.81	0.22	10
1,3-Dichloropropene, Total	ND		mg/kg	0.40	0.13	10
1,1,2-Trichloroethane	ND		mg/kg	0.81	0.22	10
Dibromochloromethane	ND		mg/kg	0.81	0.11	10
1,2-Dibromoethane	ND		mg/kg	0.40	0.24	10
2-Hexanone	ND		mg/kg	8.1	0.95	10
Chlorobenzene	ND		mg/kg	0.40	0.10	10
Ethylbenzene	4.7		mg/kg	0.81	0.11	10
p/m-Xylene	5.8		mg/kg	1.6	0.45	10
o-Xylene	1.1		mg/kg	0.81	0.24	10
Xylenes, Total	6.9		mg/kg	0.81	0.24	10
Styrene	ND		mg/kg	0.81	0.16	10
Bromoform	ND		mg/kg	3.2	0.20	10
Isopropylbenzene	38.		mg/kg	0.81	0.088	10
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.40	0.13	10
1,3,5-Trimethylbenzene	0.64	J	mg/kg	1.6	0.16	10
1,2,4-Trimethylbenzene	1.9		mg/kg	1.6	0.27	10
1,3-Dichlorobenzene	ND		mg/kg	1.6	0.12	10
1,4-Dichlorobenzene	ND		mg/kg	1.6	0.14	10
1,2-Dichlorobenzene	ND		mg/kg	1.6	0.12	10
1,2-Dibromo-3-chloropropane	ND		mg/kg	2.4	0.81	10
1,2,4-Trichlorobenzene	ND		mg/kg	1.6	0.22	10
Naphthalene	1.8	J	mg/kg	3.2	0.52	10
1,2,3-Trichlorobenzene	ND		mg/kg	1.6	0.26	10

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-03 D2 Date Collected: 03/16/22 14:20

Client ID: SB-202 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	1050	J	mg/kg			10
Benzene, Propyl-	91.9	NJ	mg/kg			10
Indan, 1-methyl-	138.	NJ	mg/kg			10
Unknown Aromatic	80.5	J	mg/kg			10
Unknown Cyclohexane	94.6	J	mg/kg			10
Unknown Benzene	157.	J	mg/kg			10
Unknown	120.	J	mg/kg			10
Unknown	64.7	J	mg/kg			10
Unknown Benzene	73.5	J	mg/kg			10
Unknown Aromatic	153.	J	mg/kg			10
Benzene, (2-methyl-1-butenyl)-	75.2	NJ	mg/kg			10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	75		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	130		70-130
Dibromofluoromethane	71		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2213931
Project Number: 30108678.03C
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-03 D
Client ID: SB-202 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:20
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 10:06
Analyst: KJD
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl cyclohexane	410		mg/kg	32	4.9	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	90		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-04
Client ID: SB-203 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:30
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/28/22 17:16
Analyst: KJD
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	1.6	0.14	1
Chloromethane	ND		mg/kg	0.63	0.15	1
Vinyl chloride	ND		mg/kg	0.16	0.053	1
Bromomethane	ND		mg/kg	0.32	0.092	1
Chloroethane	ND		mg/kg	0.32	0.071	1
Trichlorofluoromethane	ND		mg/kg	0.63	0.11	1
1,1-Dichloroethene	ND		mg/kg	0.16	0.038	1
Carbon disulfide	ND		mg/kg	1.6	0.72	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.63	0.11	1
Methylene chloride	ND		mg/kg	0.79	0.36	1
Acetone	ND		mg/kg	1.6	0.76	1
trans-1,2-Dichloroethene	ND		mg/kg	0.24	0.022	1
Methyl Acetate	0.25	J	mg/kg	0.63	0.15	1
Methyl tert butyl ether	ND		mg/kg	0.32	0.032	1
1,1-Dichloroethane	ND		mg/kg	0.16	0.023	1
cis-1,2-Dichloroethene	ND		mg/kg	0.16	0.028	1
1,2-Dichloroethene, Total	ND		mg/kg	0.16	0.022	1
Cyclohexane	12.		mg/kg	1.6	0.086	1
Bromochloromethane	ND		mg/kg	0.32	0.032	1
Chloroform	ND		mg/kg	0.24	0.022	1
Carbon tetrachloride	ND		mg/kg	0.16	0.036	1
1,1,1-Trichloroethane	ND		mg/kg	0.079	0.026	1
2-Butanone	ND		mg/kg	1.6	0.35	1
Benzene	0.40		mg/kg	0.079	0.026	1
1,2-Dichloroethane	ND		mg/kg	0.16	0.040	1
Methyl cyclohexane	53.	E	mg/kg	0.63	0.095	1
Trichloroethene	ND		mg/kg	0.079	0.022	1
1,2-Dichloropropane	ND		mg/kg	0.16	0.020	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-04 Date Collected: 03/16/22 14:30

Client ID: SB-203 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.079	0.017	1
1,4-Dioxane	ND		mg/kg	13	5.5	1
cis-1,3-Dichloropropene	ND		mg/kg	0.079	0.025	1
Toluene	0.83		mg/kg	0.16	0.086	1
4-Methyl-2-pentanone	ND		mg/kg	1.6	0.20	1
Tetrachloroethene	ND		mg/kg	0.079	0.031	1
trans-1,3-Dichloropropene	ND		mg/kg	0.16	0.043	1
1,3-Dichloropropene, Total	ND		mg/kg	0.079	0.025	1
1,1,2-Trichloroethane	ND		mg/kg	0.16	0.042	1
Dibromochloromethane	ND		mg/kg	0.16	0.022	1
1,2-Dibromoethane	ND		mg/kg	0.079	0.046	1
2-Hexanone	ND		mg/kg	1.6	0.18	1
Chlorobenzene	ND		mg/kg	0.079	0.020	1
Ethylbenzene	1.1		mg/kg	0.16	0.022	1
p/m-Xylene	1.9		mg/kg	0.32	0.088	1
o-Xylene	0.39		mg/kg	0.16	0.046	1
Xylenes, Total	2.3		mg/kg	0.16	0.046	1
Styrene	0.031	J	mg/kg	0.16	0.031	1
Bromoform	ND		mg/kg	0.63	0.039	1
Isopropylbenzene	10.		mg/kg	0.16	0.017	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.079	0.026	1
1,3,5-Trimethylbenzene	0.27	J	mg/kg	0.32	0.030	1
1,2,4-Trimethylbenzene	0.92		mg/kg	0.32	0.053	1
1,3-Dichlorobenzene	ND		mg/kg	0.32	0.023	1
1,4-Dichlorobenzene	ND		mg/kg	0.32	0.027	1
1,2-Dichlorobenzene	ND		mg/kg	0.32	0.023	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.47	0.16	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.32	0.043	1
Naphthalene	1.4		mg/kg	0.63	0.10	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.32	0.051	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-04 Date Collected: 03/16/22 14:30

Client ID: SB-203 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	194.	J	mg/kg			1
Benzene, 1,2-diethyl-	18.2	NJ	mg/kg			1
Unknown Benzene	30.8	J	mg/kg			1
Unknown Aromatic	16.1	J	mg/kg			1
Unknown Aromatic	21.0	J	mg/kg			1
Unknown Benzene	17.4	J	mg/kg			1
Unknown Aromatic	14.8	J	mg/kg			1
Unknown Aromatic	16.4	J	mg/kg			1
Unknown Aromatic	33.6	J	mg/kg			1
Unknown Aromatic	11.2	J	mg/kg			1
Benzene, Propyl-	14.6	NJ	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	**198**	Q	70-130
Dibromofluoromethane	84		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2213931
Project Number: 30108678.03C
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-04 D
Client ID: SB-203 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:30
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 10:29
Analyst: KJD
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl cyclohexane	64.		mg/kg	6.3	0.95	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	93		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2213931
Project Number: 30108678.03C
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-05 D2
Client ID: SB-204 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:35
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/30/22 18:01
Analyst: AJK
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl cyclohexane	120		mg/kg	3.6	0.54	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	85		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-05 D
Client ID: SB-204 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:35
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/28/22 17:39
Analyst: KJD
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	4.5	0.41	5
Chloromethane	ND		mg/kg	1.8	0.42	5
Vinyl chloride	ND		mg/kg	0.45	0.15	5
Bromomethane	ND		mg/kg	0.90	0.26	5
Chloroethane	ND		mg/kg	0.90	0.20	5
Trichlorofluoromethane	ND		mg/kg	1.8	0.31	5
1,1-Dichloroethene	ND		mg/kg	0.45	0.11	5
Carbon disulfide	ND		mg/kg	4.5	2.0	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.8	0.31	5
Methylene chloride	ND		mg/kg	2.2	1.0	5
Acetone	ND		mg/kg	4.5	2.2	5
trans-1,2-Dichloroethene	ND		mg/kg	0.68	0.062	5
Methyl Acetate	ND		mg/kg	1.8	0.43	5
Methyl tert butyl ether	ND		mg/kg	0.90	0.090	5
1,1-Dichloroethane	ND		mg/kg	0.45	0.065	5
cis-1,2-Dichloroethene	ND		mg/kg	0.45	0.079	5
1,2-Dichloroethene, Total	ND		mg/kg	0.45	0.062	5
Cyclohexane	58.		mg/kg	4.5	0.24	5
Bromochloromethane	ND		mg/kg	0.90	0.092	5
Chloroform	ND		mg/kg	0.68	0.063	5
Carbon tetrachloride	ND		mg/kg	0.45	0.10	5
1,1,1-Trichloroethane	ND		mg/kg	0.22	0.075	5
2-Butanone	ND		mg/kg	4.5	1.0	5
Benzene	0.59		mg/kg	0.22	0.075	5
1,2-Dichloroethane	ND		mg/kg	0.45	0.12	5
Methyl cyclohexane	150	E	mg/kg	1.8	0.27	5
Trichloroethene	ND		mg/kg	0.22	0.062	5
1,2-Dichloropropane	ND		mg/kg	0.45	0.056	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-05 D Date Collected: 03/16/22 14:35

Client ID: SB-204 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.22	0.049	5
1,4-Dioxane	ND		mg/kg	36	16.	5
cis-1,3-Dichloropropene	ND		mg/kg	0.22	0.071	5
Toluene	0.79		mg/kg	0.45	0.24	5
4-Methyl-2-pentanone	ND		mg/kg	4.5	0.58	5
Tetrachloroethene	ND		mg/kg	0.22	0.088	5
trans-1,3-Dichloropropene	ND		mg/kg	0.45	0.12	5
1,3-Dichloropropene, Total	ND		mg/kg	0.22	0.071	5
1,1,2-Trichloroethane	ND		mg/kg	0.45	0.12	5
Dibromochloromethane	ND		mg/kg	0.45	0.063	5
1,2-Dibromoethane	ND		mg/kg	0.22	0.13	5
2-Hexanone	ND		mg/kg	4.5	0.53	5
Chlorobenzene	ND		mg/kg	0.22	0.057	5
Ethylbenzene	3.1		mg/kg	0.45	0.063	5
p/m-Xylene	3.2		mg/kg	0.90	0.25	5
o-Xylene	0.53		mg/kg	0.45	0.13	5
Xylenes, Total	3.7		mg/kg	0.45	0.13	5
Styrene	ND		mg/kg	0.45	0.088	5
Bromoform	ND		mg/kg	1.8	0.11	5
Isopropylbenzene	26.		mg/kg	0.45	0.049	5
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.22	0.075	5
1,3,5-Trimethylbenzene	1.0		mg/kg	0.90	0.087	5
1,2,4-Trimethylbenzene	2.0		mg/kg	0.90	0.15	5
1,3-Dichlorobenzene	ND		mg/kg	0.90	0.067	5
1,4-Dichlorobenzene	ND		mg/kg	0.90	0.077	5
1,2-Dichlorobenzene	ND		mg/kg	0.90	0.065	5
1,2-Dibromo-3-chloropropane	ND		mg/kg	1.4	0.45	5
1,2,4-Trichlorobenzene	ND		mg/kg	0.90	0.12	5
Naphthalene	2.8		mg/kg	1.8	0.29	5
1,2,3-Trichlorobenzene	ND		mg/kg	0.90	0.14	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-05 D Date Collected: 03/16/22 14:35

Client ID: SB-204 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	909.	J	mg/kg			5
Unknown Aromatic	120.	J	mg/kg			5
Unknown	42.4	J	mg/kg			5
Benzene, Propyl-	84.0	NJ	mg/kg			5
Unknown Benzene	155.	J	mg/kg			5
Unknown Aromatic	81.8	J	mg/kg			5
Unknown Aromatic	62.3	J	mg/kg			5
Unknown Aromatic	43.5	J	mg/kg			5
Unknown Aromatic	124.	J	mg/kg			5
Unknown	121.	J	mg/kg			5
Unknown Benzene	75.3	J	mg/kg			5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	78		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	**213**	Q	70-130
Dibromofluoromethane	**62**	Q	70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-06 D
Client ID: SB-205 (3.5-4)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:45
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 11:16
Analyst: KJD
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	3.3	0.30	5
Chloromethane	ND		mg/kg	1.3	0.31	5
Vinyl chloride	ND		mg/kg	0.33	0.11	5
Bromomethane	ND		mg/kg	0.67	0.19	5
Chloroethane	ND		mg/kg	0.67	0.15	5
Trichlorofluoromethane	ND		mg/kg	1.3	0.23	5
1,1-Dichloroethene	ND		mg/kg	0.33	0.079	5
Carbon disulfide	ND		mg/kg	3.3	1.5	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.3	0.23	5
Methylene chloride	ND		mg/kg	1.7	0.76	5
Acetone	ND		mg/kg	3.3	1.6	5
trans-1,2-Dichloroethene	ND		mg/kg	0.50	0.046	5
Methyl Acetate	ND		mg/kg	1.3	0.32	5
Methyl tert butyl ether	ND		mg/kg	0.67	0.067	5
1,1-Dichloroethane	ND		mg/kg	0.33	0.048	5
cis-1,2-Dichloroethene	ND		mg/kg	0.33	0.058	5
1,2-Dichloroethene, Total	ND		mg/kg	0.33	0.046	5
Cyclohexane	2.7	J	mg/kg	3.3	0.18	5
Bromochloromethane	ND		mg/kg	0.67	0.068	5
Chloroform	ND		mg/kg	0.50	0.047	5
Carbon tetrachloride	ND		mg/kg	0.33	0.077	5
1,1,1-Trichloroethane	ND		mg/kg	0.17	0.056	5
2-Butanone	ND		mg/kg	3.3	0.74	5
Benzene	0.091	J	mg/kg	0.17	0.055	5
1,2-Dichloroethane	ND		mg/kg	0.33	0.086	5
Methyl cyclohexane	8.0		mg/kg	1.3	0.20	5
Trichloroethene	ND		mg/kg	0.17	0.046	5
1,2-Dichloropropane	ND		mg/kg	0.33	0.042	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-06 D Date Collected: 03/16/22 14:45

Client ID: SB-205 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.17	0.036	5
1,4-Dioxane	ND		mg/kg	27	12.	5
cis-1,3-Dichloropropene	ND		mg/kg	0.17	0.053	5
Toluene	0.62		mg/kg	0.33	0.18	5
4-Methyl-2-pentanone	ND		mg/kg	3.3	0.43	5
Tetrachloroethene	ND		mg/kg	0.17	0.065	5
trans-1,3-Dichloropropene	ND		mg/kg	0.33	0.091	5
1,3-Dichloropropene, Total	ND		mg/kg	0.17	0.053	5
1,1,2-Trichloroethane	ND		mg/kg	0.33	0.089	5
Dibromochloromethane	ND		mg/kg	0.33	0.047	5
1,2-Dibromoethane	ND		mg/kg	0.17	0.098	5
2-Hexanone	ND		mg/kg	3.3	0.39	5
Chlorobenzene	ND		mg/kg	0.17	0.042	5
Ethylbenzene	0.32	J	mg/kg	0.33	0.047	5
p/m-Xylene	1.4		mg/kg	0.67	0.19	5
o-Xylene	0.28	J	mg/kg	0.33	0.097	5
Xylenes, Total	1.7	J	mg/kg	0.33	0.097	5
Styrene	0.067	J	mg/kg	0.33	0.065	5
Bromoform	ND		mg/kg	1.3	0.082	5
Isopropylbenzene	0.21	J	mg/kg	0.33	0.036	5
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.17	0.055	5
1,3,5-Trimethylbenzene	1.2		mg/kg	0.67	0.064	5
1,2,4-Trimethylbenzene	2.7		mg/kg	0.67	0.11	5
1,3-Dichlorobenzene	ND		mg/kg	0.67	0.049	5
1,4-Dichlorobenzene	ND		mg/kg	0.67	0.057	5
1,2-Dichlorobenzene	ND		mg/kg	0.67	0.048	5
1,2-Dibromo-3-chloropropane	ND		mg/kg	1.0	0.33	5
1,2,4-Trichlorobenzene	ND		mg/kg	0.67	0.091	5
Naphthalene	0.39	J	mg/kg	1.3	0.22	5
1,2,3-Trichlorobenzene	ND		mg/kg	0.67	0.11	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-06 D Date Collected: 03/16/22 14:45

Client ID: SB-205 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	174.	J	mg/kg			5
Unknown	19.6	J	mg/kg			5
Decane, 4-methyl-	15.8	NJ	mg/kg			5
Unknown Cyclohexane	22.6	J	mg/kg			5
Unknown	13.7	J	mg/kg			5
Unknown	17.5	J	mg/kg			5
Unknown	15.8	J	mg/kg			5
Unknown Alkane	21.3	J	mg/kg			5
Decane (C10)	17.7	NJ	mg/kg			5
Unknown	12.9	J	mg/kg			5
Heptane, 3-methyl-	16.8	NJ	mg/kg			5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	**133**	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-07 Date Collected: 03/17/22 08:35
Client ID: SB-206 (2.5-3) Date Received: 03/17/22
Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/28/22 18:48
Analyst: KJD
Percent Solids: 58%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.020	0.0019	1
Chloromethane	ND		mg/kg	0.0082	0.0019	1
Vinyl chloride	ND		mg/kg	0.0020	0.00068	1
Bromomethane	ND		mg/kg	0.0041	0.0012	1
Chloroethane	ND		mg/kg	0.0041	0.00092	1
Trichlorofluoromethane	ND		mg/kg	0.0082	0.0014	1
1,1-Dichloroethene	ND		mg/kg	0.0020	0.00048	1
Carbon disulfide	ND		mg/kg	0.020	0.0093	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0082	0.0014	1
Methylene chloride	ND		mg/kg	0.010	0.0047	1
Acetone	ND		mg/kg	0.051	0.020	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0031	0.00028	1
Methyl Acetate	ND		mg/kg	0.0082	0.0019	1
Methyl tert butyl ether	ND		mg/kg	0.0041	0.00041	1
1,1-Dichloroethane	ND		mg/kg	0.0020	0.00030	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00036	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0020	0.00028	1
Cyclohexane	0.0073	J	mg/kg	0.020	0.0011	1
Bromochloromethane	ND		mg/kg	0.0041	0.00042	1
Chloroform	ND		mg/kg	0.0031	0.00028	1
Carbon tetrachloride	ND		mg/kg	0.0020	0.00047	1
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00034	1
2-Butanone	ND		mg/kg	0.020	0.0045	1
Benzene	0.0031		mg/kg	0.0010	0.00034	1
1,2-Dichloroethane	ND		mg/kg	0.0020	0.00052	1
Methyl cyclohexane	0.033		mg/kg	0.0082	0.0012	1
Trichloroethene	ND		mg/kg	0.0010	0.00028	1
1,2-Dichloropropane	ND		mg/kg	0.0020	0.00026	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-07 Date Collected: 03/17/22 08:35

Client ID: SB-206 (2.5-3) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0010	0.00022	1
1,4-Dioxane	ND		mg/kg	0.16	0.072	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00032	1
Toluene	0.013		mg/kg	0.0020	0.0011	1
4-Methyl-2-pentanone	ND		mg/kg	0.020	0.0026	1
Tetrachloroethene	ND		mg/kg	0.0010	0.00040	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0020	0.00056	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00032	1
1,1,2-Trichloroethane	ND		mg/kg	0.0020	0.00054	1
Dibromochloromethane	ND		mg/kg	0.0020	0.00028	1
1,2-Dibromoethane	ND		mg/kg	0.0010	0.00060	1
2-Hexanone	ND		mg/kg	0.020	0.0024	1
Chlorobenzene	ND		mg/kg	0.0010	0.00026	1
Ethylbenzene	0.0054		mg/kg	0.0020	0.00029	1
p/m-Xylene	0.025		mg/kg	0.0041	0.0011	1
o-Xylene	0.0066		mg/kg	0.0020	0.00059	1
Xylenes, Total	0.032		mg/kg	0.0020	0.00059	1
Styrene	0.00050	J	mg/kg	0.0020	0.00040	1
Bromoform	ND		mg/kg	0.0082	0.00050	1
Isopropylbenzene	0.00067	J	mg/kg	0.0020	0.00022	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00034	1
1,3,5-Trimethylbenzene	0.017		mg/kg	0.0041	0.00039	1
1,2,4-Trimethylbenzene	0.022		mg/kg	0.0041	0.00068	1
1,3-Dichlorobenzene	ND		mg/kg	0.0041	0.00030	1
1,4-Dichlorobenzene	ND		mg/kg	0.0041	0.00035	1
1,2-Dichlorobenzene	ND		mg/kg	0.0041	0.00029	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0061	0.0020	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0041	0.00056	1
Naphthalene	0.0051	J	mg/kg	0.0082	0.0013	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0041	0.00066	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-07 Date Collected: 03/17/22 08:35

Client ID: SB-206 (2.5-3) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	3.57	J	mg/kg			1
Unknown	0.419	J	mg/kg			1
Unknown Cyclohexane	0.251	J	mg/kg			1
Unknown Aromatic	0.196	J	mg/kg			1
Unknown	0.450	J	mg/kg			1
Unknown	0.498	J	mg/kg			1
Unknown	0.466	J	mg/kg			1
Unknown	0.212	J	mg/kg			1
Unknown	0.420	J	mg/kg			1
Unknown	0.230	J	mg/kg			1
Unknown	0.424	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	**220**	Q	70-130
Dibromofluoromethane	78		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08
Client ID: SB-207 (4-4.5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 08:50
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/29/22 21:16
Analyst: KJD
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.015	0.0014	1
Chloromethane	ND		mg/kg	0.0062	0.0014	1
Vinyl chloride	ND		mg/kg	0.0015	0.00052	1
Bromomethane	ND		mg/kg	0.0031	0.00090	1
Chloroethane	ND		mg/kg	0.0031	0.00070	1
Trichlorofluoromethane	ND		mg/kg	0.0062	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0015	0.00037	1
Carbon disulfide	ND		mg/kg	0.015	0.0070	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0062	0.0011	1
Methylene chloride	ND		mg/kg	0.0077	0.0035	1
Acetone	0.069		mg/kg	0.039	0.015	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0023	0.00021	1
Methyl Acetate	ND		mg/kg	0.0062	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0031	0.00031	1
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00022	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00027	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0015	0.00021	1
Cyclohexane	0.050		mg/kg	0.015	0.00084	1
Bromochloromethane	ND		mg/kg	0.0031	0.00032	1
Chloroform	ND		mg/kg	0.0023	0.00022	1
Carbon tetrachloride	ND		mg/kg	0.0015	0.00036	1
1,1,1-Trichloroethane	ND		mg/kg	0.00077	0.00026	1
2-Butanone	0.010	J	mg/kg	0.015	0.0034	1
Benzene	0.021		mg/kg	0.00077	0.00026	1
1,2-Dichloroethane	ND		mg/kg	0.0015	0.00040	1
Methyl cyclohexane	0.063		mg/kg	0.0062	0.00093	1
Trichloroethene	ND		mg/kg	0.00077	0.00021	1
1,2-Dichloropropane	ND		mg/kg	0.0015	0.00019	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08 Date Collected: 03/17/22 08:50

Client ID: SB-207 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00077	0.00017	1
1,4-Dioxane	ND		mg/kg	0.12	0.054	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00077	0.00024	1
Toluene	0.024		mg/kg	0.0015	0.00084	1
4-Methyl-2-pentanone	ND		mg/kg	0.015	0.0020	1
Tetrachloroethene	ND		mg/kg	0.00077	0.00030	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0015	0.00042	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00077	0.00024	1
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00041	1
Dibromochloromethane	ND		mg/kg	0.0015	0.00022	1
1,2-Dibromoethane	ND		mg/kg	0.00077	0.00045	1
2-Hexanone	ND		mg/kg	0.015	0.0018	1
Chlorobenzene	ND		mg/kg	0.00077	0.00020	1
Ethylbenzene	0.013		mg/kg	0.0015	0.00022	1
p/m-Xylene	0.025		mg/kg	0.0031	0.00087	1
o-Xylene	0.030		mg/kg	0.0015	0.00045	1
Xylenes, Total	0.055		mg/kg	0.0015	0.00045	1
Styrene	ND		mg/kg	0.0015	0.00030	1
Bromoform	ND		mg/kg	0.0062	0.00038	1
Isopropylbenzene	0.0078		mg/kg	0.0015	0.00017	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00077	0.00026	1
1,3,5-Trimethylbenzene	0.035		mg/kg	0.0031	0.00030	1
1,2,4-Trimethylbenzene	0.047		mg/kg	0.0031	0.00052	1
1,3-Dichlorobenzene	ND		mg/kg	0.0031	0.00023	1
1,4-Dichlorobenzene	ND		mg/kg	0.0031	0.00026	1
1,2-Dichlorobenzene	ND		mg/kg	0.0031	0.00022	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0046	0.0015	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0031	0.00042	1
Naphthalene	0.13		mg/kg	0.0062	0.0010	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0031	0.00050	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08 Date Collected: 03/17/22 08:50

Client ID: SB-207 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.326	J	mg/kg			1
Unknown Cyclohexane	0.0210	J	mg/kg			1
Unknown Benzene	0.0448	J	mg/kg			1
Unknown	0.0349	J	mg/kg			1
Unknown Alkane	0.0502	J	mg/kg			1
Cyclohexane, 1,1,3-trimethyl-	0.0243	NJ	mg/kg			1
Pentane, 2-methyl-	0.0320	NJ	mg/kg			1
Unknown Benzene	0.0261	J	mg/kg			1
Butane, 2-Methyl-	0.0220	NJ	mg/kg			1
Cyclopentane, Methyl-	0.0292	NJ	mg/kg			1
Unknown Benzene	0.0414	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	**132**	Q	70-130
Dibromofluoromethane	86		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08
Client ID: SB-207 (4-4.5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 08:50
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/30/22 17:36
Analyst: KJD
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	1.1	0.097	1
Chloromethane	ND		mg/kg	0.42	0.099	1
Vinyl chloride	ND		mg/kg	0.11	0.036	1
Bromomethane	ND		mg/kg	0.21	0.062	1
Chloroethane	ND		mg/kg	0.21	0.048	1
Trichlorofluoromethane	ND		mg/kg	0.42	0.074	1
1,1-Dichloroethene	ND		mg/kg	0.11	0.025	1
Carbon disulfide	ND		mg/kg	1.1	0.48	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.42	0.074	1
Methylene chloride	ND		mg/kg	0.53	0.24	1
Acetone	ND		mg/kg	1.1	0.51	1
trans-1,2-Dichloroethene	ND		mg/kg	0.16	0.014	1
Methyl Acetate	ND		mg/kg	0.42	0.10	1
Methyl tert butyl ether	0.029	J	mg/kg	0.21	0.021	1
1,1-Dichloroethane	ND		mg/kg	0.11	0.015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.11	0.018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.11	0.014	1
Cyclohexane	1.7		mg/kg	1.1	0.058	1
Bromochloromethane	ND		mg/kg	0.21	0.022	1
Chloroform	ND		mg/kg	0.16	0.015	1
Carbon tetrachloride	ND		mg/kg	0.11	0.024	1
1,1,1-Trichloroethane	ND		mg/kg	0.053	0.018	1
2-Butanone	ND		mg/kg	1.1	0.24	1
Benzene	0.19		mg/kg	0.053	0.018	1
1,2-Dichloroethane	ND		mg/kg	0.11	0.027	1
Methyl cyclohexane	1.8		mg/kg	0.42	0.064	1
Trichloroethene	ND		mg/kg	0.053	0.014	1
1,2-Dichloropropane	ND		mg/kg	0.11	0.013	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08 Date Collected: 03/17/22 08:50

Client ID: SB-207 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.053	0.012	1
1,4-Dioxane	ND		mg/kg	8.5	3.7	1
cis-1,3-Dichloropropene	ND		mg/kg	0.053	0.017	1
Toluene	0.53		mg/kg	0.11	0.058	1
4-Methyl-2-pentanone	ND		mg/kg	1.1	0.14	1
Tetrachloroethene	ND		mg/kg	0.053	0.021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.11	0.029	1
1,3-Dichloropropene, Total	ND		mg/kg	0.053	0.017	1
1,1,2-Trichloroethane	ND		mg/kg	0.11	0.028	1
Dibromochloromethane	ND		mg/kg	0.11	0.015	1
1,2-Dibromoethane	ND		mg/kg	0.053	0.031	1
2-Hexanone	ND		mg/kg	1.1	0.12	1
Chlorobenzene	ND		mg/kg	0.053	0.013	1
Ethylbenzene	0.34		mg/kg	0.11	0.015	1
p/m-Xylene	0.85		mg/kg	0.21	0.059	1
o-Xylene	0.62		mg/kg	0.11	0.031	1
Xylenes, Total	1.5		mg/kg	0.11	0.031	1
Styrene	ND		mg/kg	0.11	0.021	1
Bromoform	ND		mg/kg	0.42	0.026	1
Isopropylbenzene	0.12		mg/kg	0.11	0.012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.053	0.018	1
1,3,5-Trimethylbenzene	0.45		mg/kg	0.21	0.020	1
1,2,4-Trimethylbenzene	0.47		mg/kg	0.21	0.035	1
1,3-Dichlorobenzene	ND		mg/kg	0.21	0.016	1
1,4-Dichlorobenzene	ND		mg/kg	0.21	0.018	1
1,2-Dichlorobenzene	ND		mg/kg	0.21	0.015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.32	0.10	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.21	0.029	1
Naphthalene	0.15	J	mg/kg	0.42	0.069	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.21	0.034	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08 Date Collected: 03/17/22 08:50

Client ID: SB-207 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	18.5	J	mg/kg			1
Heptane, 3-methyl-	1.03	NJ	mg/kg			1
Unknown Cyclohexane	0.779	J	mg/kg			1
Pentane, 2-methyl-	2.20	NJ	mg/kg			1
Octane	2.88	NJ	mg/kg			1
Unknown	0.880	J	mg/kg			1
Cyclopentane, Methyl-	2.05	NJ	mg/kg			1
Hexane, 3-methyl-	1.77	NJ	mg/kg			1
Unknown	0.777	J	mg/kg			1
Pentane, 3-methyl-	1.34	NJ	mg/kg			1
Heptane	4.80	NJ	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-09
Client ID: SB-208 (4-4.5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 09:00
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 12:26
Analyst: KJD
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.013	0.0012	1
Chloromethane	ND		mg/kg	0.0052	0.0012	1
Vinyl chloride	ND		mg/kg	0.0013	0.00043	1
Bromomethane	ND		mg/kg	0.0026	0.00075	1
Chloroethane	ND		mg/kg	0.0026	0.00058	1
Trichlorofluoromethane	ND		mg/kg	0.0052	0.00090	1
1,1-Dichloroethene	ND		mg/kg	0.0013	0.00031	1
Carbon disulfide	ND		mg/kg	0.013	0.0059	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0052	0.00089	1
Methylene chloride	ND		mg/kg	0.0064	0.0030	1
Acetone	0.042		mg/kg	0.032	0.013	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0019	0.00018	1
Methyl Acetate	ND		mg/kg	0.0052	0.0012	1
Methyl tert butyl ether	0.00069	J	mg/kg	0.0026	0.00026	1
1,1-Dichloroethane	ND		mg/kg	0.0013	0.00019	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0013	0.00022	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0013	0.00018	1
Cyclohexane	ND		mg/kg	0.013	0.00070	1
Bromochloromethane	ND		mg/kg	0.0026	0.00026	1
Chloroform	ND		mg/kg	0.0019	0.00018	1
Carbon tetrachloride	ND		mg/kg	0.0013	0.00030	1
1,1,1-Trichloroethane	ND		mg/kg	0.00064	0.00022	1
2-Butanone	0.0064	J	mg/kg	0.013	0.0029	1
Benzene	ND		mg/kg	0.00064	0.00021	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00033	1
Methyl cyclohexane	ND		mg/kg	0.0052	0.00078	1
Trichloroethene	ND		mg/kg	0.00064	0.00018	1
1,2-Dichloropropane	ND		mg/kg	0.0013	0.00016	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-09 Date Collected: 03/17/22 09:00

Client ID: SB-208 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00064	0.00014	1
1,4-Dioxane	ND		mg/kg	0.10	0.045	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00064	0.00020	1
Toluene	0.00095	J	mg/kg	0.0013	0.00070	1
4-Methyl-2-pentanone	ND		mg/kg	0.013	0.0016	1
Tetrachloroethene	ND		mg/kg	0.00064	0.00025	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0013	0.00035	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00064	0.00020	1
1,1,2-Trichloroethane	ND		mg/kg	0.0013	0.00034	1
Dibromochloromethane	ND		mg/kg	0.0013	0.00018	1
1,2-Dibromoethane	ND		mg/kg	0.00064	0.00038	1
2-Hexanone	ND		mg/kg	0.013	0.0015	1
Chlorobenzene	ND		mg/kg	0.00064	0.00016	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	ND		mg/kg	0.0026	0.00072	1
o-Xylene	ND		mg/kg	0.0013	0.00038	1
Xylenes, Total	ND		mg/kg	0.0013	0.00038	1
Styrene	0.00025	J	mg/kg	0.0013	0.00025	1
Bromoform	ND		mg/kg	0.0052	0.00032	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00064	0.00021	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0026	0.00025	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0026	0.00043	1
1,3-Dichlorobenzene	ND		mg/kg	0.0026	0.00019	1
1,4-Dichlorobenzene	ND		mg/kg	0.0026	0.00022	1
1,2-Dichlorobenzene	ND		mg/kg	0.0026	0.00018	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0039	0.0013	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0026	0.00035	1
Naphthalene	ND		mg/kg	0.0052	0.00084	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0026	0.00042	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-09 Date Collected: 03/17/22 09:00

Client ID: SB-208 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.0157	J	mg/kg			1
Unknown	0.00623	J	mg/kg			1
Cyclotrisiloxane, Hexamethyl-	0.00294	NJ	mg/kg			1
Unknown	0.00268	J	mg/kg			1
Unknown	0.00386	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-10
Client ID: SB-209 (3.5-4)
Sample Location: PHILA., PA

Date Collected: 03/17/22 09:25
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 12:49
Analyst: KJD
Percent Solids: 58%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.019	0.0018	1
Chloromethane	ND		mg/kg	0.0077	0.0018	1
Vinyl chloride	ND		mg/kg	0.0019	0.00065	1
Bromomethane	ND		mg/kg	0.0038	0.0011	1
Chloroethane	ND		mg/kg	0.0038	0.00087	1
Trichlorofluoromethane	ND		mg/kg	0.0077	0.0013	1
1,1-Dichloroethene	ND		mg/kg	0.0019	0.00046	1
Carbon disulfide	ND		mg/kg	0.019	0.0088	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0077	0.0013	1
Methylene chloride	ND		mg/kg	0.0096	0.0044	1
Acetone	ND		mg/kg	0.048	0.019	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0029	0.00026	1
Methyl Acetate	ND		mg/kg	0.0077	0.0018	1
Methyl tert butyl ether	ND		mg/kg	0.0038	0.00039	1
1,1-Dichloroethane	ND		mg/kg	0.0019	0.00028	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0019	0.00034	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0019	0.00026	1
Cyclohexane	0.0056	J	mg/kg	0.019	0.0010	1
Bromochloromethane	ND		mg/kg	0.0038	0.00040	1
Chloroform	ND		mg/kg	0.0029	0.00027	1
Carbon tetrachloride	ND		mg/kg	0.0019	0.00044	1
1,1,1-Trichloroethane	ND		mg/kg	0.00096	0.00032	1
2-Butanone	ND		mg/kg	0.019	0.0043	1
Benzene	0.0014		mg/kg	0.00096	0.00032	1
1,2-Dichloroethane	0.00054	J	mg/kg	0.0019	0.00050	1
Methyl cyclohexane	0.016		mg/kg	0.0077	0.0012	1
Trichloroethene	ND		mg/kg	0.00096	0.00026	1
1,2-Dichloropropane	ND		mg/kg	0.0019	0.00024	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-10 Date Collected: 03/17/22 09:25

Client ID: SB-209 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00096	0.00021	1
1,4-Dioxane	ND		mg/kg	0.15	0.068	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00096	0.00030	1
Toluene	0.0025		mg/kg	0.0019	0.0010	1
4-Methyl-2-pentanone	ND		mg/kg	0.019	0.0025	1
Tetrachloroethene	ND		mg/kg	0.00096	0.00038	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0019	0.00053	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00096	0.00030	1
1,1,2-Trichloroethane	ND		mg/kg	0.0019	0.00051	1
Dibromochloromethane	ND		mg/kg	0.0019	0.00027	1
1,2-Dibromoethane	ND		mg/kg	0.00096	0.00056	1
2-Hexanone	ND		mg/kg	0.019	0.0023	1
Chlorobenzene	ND		mg/kg	0.00096	0.00024	1
Ethylbenzene	0.00048	J	mg/kg	0.0019	0.00027	1
p/m-Xylene	0.0015	J	mg/kg	0.0038	0.0011	1
o-Xylene	0.0012	J	mg/kg	0.0019	0.00056	1
Xylenes, Total	0.0027	J	mg/kg	0.0019	0.00056	1
Styrene	ND		mg/kg	0.0019	0.00038	1
Bromoform	ND		mg/kg	0.0077	0.00047	1
Isopropylbenzene	0.00022	J	mg/kg	0.0019	0.00021	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00096	0.00032	1
1,3,5-Trimethylbenzene	0.0085		mg/kg	0.0038	0.00037	1
1,2,4-Trimethylbenzene	0.0022	J	mg/kg	0.0038	0.00064	1
1,3-Dichlorobenzene	ND		mg/kg	0.0038	0.00028	1
1,4-Dichlorobenzene	ND		mg/kg	0.0038	0.00033	1
1,2-Dichlorobenzene	ND		mg/kg	0.0038	0.00028	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0058	0.0019	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0038	0.00052	1
Naphthalene	0.0017	J	mg/kg	0.0077	0.0012	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0038	0.00062	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-10 Date Collected: 03/17/22 09:25

Client ID: SB-209 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.228	J	mg/kg			1
Unknown	0.0161	J	mg/kg			1
Unknown Indene	0.0289	J	mg/kg			1
Unknown Benzene	0.0180	J	mg/kg			1
Unknown Aromatic	0.0212	J	mg/kg			1
Unknown Aromatic	0.0390	J	mg/kg			1
Unknown	0.0304	J	mg/kg			1
Unknown Benzene	0.0159	J	mg/kg			1
Unknown Benzene	0.0172	J	mg/kg			1
Unknown Aromatic	0.0182	J	mg/kg			1
Unknown Indene	0.0229	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	126		70-130
Dibromofluoromethane	85		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-11
Client ID: SB-210 (4-4.5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 09:35
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 13:13
Analyst: KJD
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.0093	0.00085	1
Chloromethane	ND		mg/kg	0.0037	0.00087	1
Vinyl chloride	ND		mg/kg	0.00093	0.00031	1
Bromomethane	ND		mg/kg	0.0019	0.00054	1
Chloroethane	ND		mg/kg	0.0019	0.00042	1
Trichlorofluoromethane	ND		mg/kg	0.0037	0.00065	1
1,1-Dichloroethene	ND		mg/kg	0.00093	0.00022	1
Carbon disulfide	ND		mg/kg	0.0093	0.0042	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0037	0.00065	1
Methylene chloride	ND		mg/kg	0.0047	0.0021	1
Acetone	ND		mg/kg	0.023	0.0093	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00013	1
Methyl Acetate	ND		mg/kg	0.0037	0.00088	1
Methyl tert butyl ether	0.00060	J	mg/kg	0.0019	0.00019	1
1,1-Dichloroethane	ND		mg/kg	0.00093	0.00014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00093	0.00016	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00093	0.00013	1
Cyclohexane	ND		mg/kg	0.0093	0.00051	1
Bromochloromethane	ND		mg/kg	0.0019	0.00019	1
Chloroform	ND		mg/kg	0.0014	0.00013	1
Carbon tetrachloride	ND		mg/kg	0.00093	0.00021	1
1,1,1-Trichloroethane	ND		mg/kg	0.00047	0.00016	1
2-Butanone	ND		mg/kg	0.0093	0.0021	1
Benzene	ND		mg/kg	0.00047	0.00015	1
1,2-Dichloroethane	ND		mg/kg	0.00093	0.00024	1
Methyl cyclohexane	ND		mg/kg	0.0037	0.00056	1
Trichloroethene	ND		mg/kg	0.00047	0.00013	1
1,2-Dichloropropane	ND		mg/kg	0.00093	0.00012	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-11 Date Collected: 03/17/22 09:35

Client ID: SB-210 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00047	0.00010	1
1,4-Dioxane	ND		mg/kg	0.075	0.033	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00047	0.00015	1
Toluene	ND		mg/kg	0.00093	0.00051	1
4-Methyl-2-pentanone	ND		mg/kg	0.0093	0.0012	1
Tetrachloroethene	ND		mg/kg	0.00047	0.00018	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00093	0.00025	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00047	0.00015	1
1,1,2-Trichloroethane	ND		mg/kg	0.00093	0.00025	1
Dibromochloromethane	ND		mg/kg	0.00093	0.00013	1
1,2-Dibromoethane	ND		mg/kg	0.00047	0.00027	1
2-Hexanone	ND		mg/kg	0.0093	0.0011	1
Chlorobenzene	ND		mg/kg	0.00047	0.00012	1
Ethylbenzene	ND		mg/kg	0.00093	0.00013	1
p/m-Xylene	ND		mg/kg	0.0019	0.00052	1
o-Xylene	ND		mg/kg	0.00093	0.00027	1
Xylenes, Total	ND		mg/kg	0.00093	0.00027	1
Styrene	ND		mg/kg	0.00093	0.00018	1
Bromoform	ND		mg/kg	0.0037	0.00023	1
Isopropylbenzene	ND		mg/kg	0.00093	0.00010	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00047	0.00015	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0019	0.00018	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0019	0.00031	1
1,3-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,4-Dichlorobenzene	ND		mg/kg	0.0019	0.00016	1
1,2-Dichlorobenzene	ND		mg/kg	0.0019	0.00013	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0028	0.00093	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0019	0.00025	1
Naphthalene	ND		mg/kg	0.0037	0.00061	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0019	0.00030	1

Tentatively Identified Compounds				
Total TIC Compounds	0.00462	J	mg/kg	1
Cyclotrisiloxane, Hexamethyl-	0.00270	NJ	mg/kg	1
Unknown	0.00192	J	mg/kg	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-11 Date Collected: 03/17/22 09:35

Client ID: SB-210 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-12
Client ID: SB-211 (3.5-4)
Sample Location: PHILA., PA

Date Collected: 03/17/22 09:40
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 13:37
Analyst: KJD
Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0011	1
Chloromethane	ND		mg/kg	0.0048	0.0011	1
Vinyl chloride	ND		mg/kg	0.0012	0.00040	1
Bromomethane	ND		mg/kg	0.0024	0.00069	1
Chloroethane	ND		mg/kg	0.0024	0.00054	1
Trichlorofluoromethane	ND		mg/kg	0.0048	0.00082	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00028	1
Carbon disulfide	ND		mg/kg	0.012	0.0054	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0048	0.00082	1
Methylene chloride	ND		mg/kg	0.0059	0.0027	1
Acetone	0.023	J	mg/kg	0.030	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0018	0.00016	1
Methyl Acetate	ND		mg/kg	0.0048	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00017	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00021	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00016	1
Cyclohexane	0.0014	J	mg/kg	0.012	0.00065	1
Bromochloromethane	ND		mg/kg	0.0024	0.00024	1
Chloroform	ND		mg/kg	0.0018	0.00017	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00027	1
1,1,1-Trichloroethane	ND		mg/kg	0.00059	0.00020	1
2-Butanone	0.0044	J	mg/kg	0.012	0.0026	1
Benzene	ND		mg/kg	0.00059	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1
Methyl cyclohexane	0.0014	J	mg/kg	0.0048	0.00072	1
Trichloroethene	ND		mg/kg	0.00059	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00015	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-12 Date Collected: 03/17/22 09:40

Client ID: SB-211 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00059	0.00013	1
1,4-Dioxane	ND		mg/kg	0.095	0.042	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00059	0.00019	1
Toluene	ND		mg/kg	0.0012	0.00064	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0015	1
Tetrachloroethene	ND		mg/kg	0.00059	0.00023	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00032	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00059	0.00019	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00032	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00017	1
1,2-Dibromoethane	ND		mg/kg	0.00059	0.00035	1
2-Hexanone	ND		mg/kg	0.012	0.0014	1
Chlorobenzene	ND		mg/kg	0.00059	0.00015	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	ND		mg/kg	0.0024	0.00066	1
o-Xylene	ND		mg/kg	0.0012	0.00034	1
Xylenes, Total	ND		mg/kg	0.0012	0.00034	1
Styrene	ND		mg/kg	0.0012	0.00023	1
Bromoform	ND		mg/kg	0.0048	0.00029	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00059	0.00020	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0024	0.00023	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0024	0.00040	1
1,3-Dichlorobenzene	ND		mg/kg	0.0024	0.00018	1
1,4-Dichlorobenzene	ND		mg/kg	0.0024	0.00020	1
1,2-Dichlorobenzene	ND		mg/kg	0.0024	0.00017	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0036	0.0012	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0024	0.00032	1
Naphthalene	0.0012	J	mg/kg	0.0048	0.00077	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0024	0.00038	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-12 Date Collected: 03/17/22 09:40

Client ID: SB-211 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.0428	J	mg/kg			1
Unknown Aromatic	0.00696	J	mg/kg			1
Unknown Indene	0.00410	J	mg/kg			1
Unknown Aromatic	0.00449	J	mg/kg			1
Unknown Aromatic	0.00634	J	mg/kg			1
Unknown	0.00404	J	mg/kg			1
Unknown Aromatic	0.00291	J	mg/kg			1
Indane	0.00277	NJ	mg/kg			1
Unknown Aromatic	0.00517	J	mg/kg			1
Unknown Naphthalene	0.00267	J	mg/kg			1
Unknown Indene	0.00334	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-13
Client ID: SB-212 (4.5-5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 10:00
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 16:22
Analyst: KJD
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0056	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00047	1
Bromomethane	ND		mg/kg	0.0028	0.00082	1
Chloroethane	ND		mg/kg	0.0028	0.00064	1
Trichlorofluoromethane	ND		mg/kg	0.0056	0.00098	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00034	1
Carbon disulfide	ND		mg/kg	0.014	0.0064	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0056	0.00098	1
Methylene chloride	ND		mg/kg	0.0070	0.0032	1
Acetone	0.020	J	mg/kg	0.035	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00019	1
Methyl Acetate	ND		mg/kg	0.0056	0.0013	1
Methyl tert butyl ether	0.0014	J	mg/kg	0.0028	0.00028	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00020	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00025	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00019	1
Cyclohexane	0.00086	J	mg/kg	0.014	0.00077	1
Bromochloromethane	ND		mg/kg	0.0028	0.00029	1
Chloroform	ND		mg/kg	0.0021	0.00020	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00032	1
1,1,1-Trichloroethane	ND		mg/kg	0.00070	0.00024	1
2-Butanone	0.0035	J	mg/kg	0.014	0.0031	1
Benzene	0.0011		mg/kg	0.00070	0.00023	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00036	1
Methyl cyclohexane	0.0017	J	mg/kg	0.0056	0.00085	1
Trichloroethene	ND		mg/kg	0.00070	0.00019	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00018	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-13 Date Collected: 03/17/22 10:00

Client ID: SB-212 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00070	0.00015	1
1,4-Dioxane	ND		mg/kg	0.11	0.049	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00070	0.00022	1
Toluene	0.0023		mg/kg	0.0014	0.00076	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00070	0.00028	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00038	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00070	0.00022	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00038	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00020	1
1,2-Dibromoethane	ND		mg/kg	0.00070	0.00041	1
2-Hexanone	ND		mg/kg	0.014	0.0017	1
Chlorobenzene	ND		mg/kg	0.00070	0.00018	1
Ethylbenzene	0.00046	J	mg/kg	0.0014	0.00020	1
p/m-Xylene	0.0030		mg/kg	0.0028	0.00079	1
o-Xylene	0.0022		mg/kg	0.0014	0.00041	1
Xylenes, Total	0.0052		mg/kg	0.0014	0.00041	1
Styrene	ND		mg/kg	0.0014	0.00028	1
Bromoform	ND		mg/kg	0.0056	0.00035	1
Isopropylbenzene	0.00019	J	mg/kg	0.0014	0.00015	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00070	0.00023	1
1,3,5-Trimethylbenzene	0.0024	J	mg/kg	0.0028	0.00027	1
1,2,4-Trimethylbenzene	0.0029		mg/kg	0.0028	0.00047	1
1,3-Dichlorobenzene	ND		mg/kg	0.0028	0.00021	1
1,4-Dichlorobenzene	ND		mg/kg	0.0028	0.00024	1
1,2-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0042	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0028	0.00038	1
Naphthalene	0.12		mg/kg	0.0056	0.00092	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0028	0.00045	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-13 Date Collected: 03/17/22 10:00

Client ID: SB-212 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.130	J	mg/kg			1
Unknown	0.0242	J	mg/kg			1
Unknown	0.00684	J	mg/kg			1
Fluorene	0.00618	NJ	mg/kg			1
Unknown	0.00479	J	mg/kg			1
Unknown Aromatic	0.00577	J	mg/kg			1
Unknown Naphthalene	0.00416	J	mg/kg			1
Unknown	0.00639	J	mg/kg			1
Acenaphthene	0.0459	NJ	mg/kg			1
Unknown Aromatic	0.0199	J	mg/kg			1
Unknown Naphthalene	0.00636	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-14 D
Client ID: SB-213 (4-4.5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 10:10
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/31/22 11:04
Analyst: KJD
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	5.8	0.53	5
Chloromethane	ND		mg/kg	2.3	0.54	5
Vinyl chloride	ND		mg/kg	0.58	0.19	5
Bromomethane	ND		mg/kg	1.2	0.34	5
Chloroethane	ND		mg/kg	1.2	0.26	5
Trichlorofluoromethane	ND		mg/kg	2.3	0.40	5
1,1-Dichloroethene	ND		mg/kg	0.58	0.14	5
Carbon disulfide	ND		mg/kg	5.8	2.6	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	2.3	0.40	5
Methylene chloride	ND		mg/kg	2.9	1.3	5
Acetone	ND		mg/kg	5.8	2.8	5
trans-1,2-Dichloroethene	ND		mg/kg	0.87	0.079	5
Methyl Acetate	1.6	J	mg/kg	2.3	0.55	5
Methyl tert butyl ether	ND		mg/kg	1.2	0.12	5
1,1-Dichloroethane	ND		mg/kg	0.58	0.084	5
cis-1,2-Dichloroethene	ND		mg/kg	0.58	0.10	5
1,2-Dichloroethene, Total	ND		mg/kg	0.58	0.079	5
Cyclohexane	0.33	J	mg/kg	5.8	0.31	5
Bromochloromethane	ND		mg/kg	1.2	0.12	5
Chloroform	ND		mg/kg	0.87	0.081	5
Carbon tetrachloride	ND		mg/kg	0.58	0.13	5
1,1,1-Trichloroethane	ND		mg/kg	0.29	0.096	5
2-Butanone	ND		mg/kg	5.8	1.3	5
Benzene	1.8		mg/kg	0.29	0.096	5
1,2-Dichloroethane	ND		mg/kg	0.58	0.15	5
Methyl cyclohexane	0.39	J	mg/kg	2.3	0.35	5
Trichloroethene	ND		mg/kg	0.29	0.079	5
1,2-Dichloropropane	ND		mg/kg	0.58	0.072	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-14 D Date Collected: 03/17/22 10:10

Client ID: SB-213 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.29	0.063	5
1,4-Dioxane	ND		mg/kg	46	20.	5
cis-1,3-Dichloropropene	ND		mg/kg	0.29	0.091	5
Toluene	4.6		mg/kg	0.58	0.31	5
4-Methyl-2-pentanone	ND		mg/kg	5.8	0.74	5
Tetrachloroethene	ND		mg/kg	0.29	0.11	5
trans-1,3-Dichloropropene	ND		mg/kg	0.58	0.16	5
1,3-Dichloropropene, Total	ND		mg/kg	0.29	0.091	5
1,1,2-Trichloroethane	ND		mg/kg	0.58	0.15	5
Dibromochloromethane	ND		mg/kg	0.58	0.081	5
1,2-Dibromoethane	ND		mg/kg	0.29	0.17	5
2-Hexanone	ND		mg/kg	5.8	0.68	5
Chlorobenzene	ND		mg/kg	0.29	0.073	5
Ethylbenzene	4.7		mg/kg	0.58	0.082	5
p/m-Xylene	11.		mg/kg	1.2	0.32	5
o-Xylene	6.9		mg/kg	0.58	0.17	5
Xylenes, Total	18.		mg/kg	0.58	0.17	5
Styrene	0.67		mg/kg	0.58	0.11	5
Bromoform	ND		mg/kg	2.3	0.14	5
Isopropylbenzene	1.3		mg/kg	0.58	0.063	5
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.29	0.096	5
1,3,5-Trimethylbenzene	8.5		mg/kg	1.2	0.11	5
1,2,4-Trimethylbenzene	20.		mg/kg	1.2	0.19	5
1,3-Dichlorobenzene	ND		mg/kg	1.2	0.086	5
1,4-Dichlorobenzene	ND		mg/kg	1.2	0.099	5
1,2-Dichlorobenzene	ND		mg/kg	1.2	0.083	5
1,2-Dibromo-3-chloropropane	ND		mg/kg	1.7	0.58	5
1,2,4-Trichlorobenzene	ND		mg/kg	1.2	0.16	5
Naphthalene	1700	E	mg/kg	2.3	0.38	5
1,2,3-Trichlorobenzene	ND		mg/kg	1.2	0.19	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-14 D Date Collected: 03/17/22 10:10

Client ID: SB-213 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	426.	J	mg/kg			5
Unknown Aromatic	10.3	J	mg/kg			5
Unknown Benzene	8.70	J	mg/kg			5
Indane	38.4	NJ	mg/kg			5
Unknown Aromatic	19.8	J	mg/kg			5
Unknown	13.9	J	mg/kg			5
Unknown	44.6	J	mg/kg			5
Unknown Aromatic	19.1	J	mg/kg			5
Unknown Benzofuran	10.4	J	mg/kg			5
Unknown	195.	J	mg/kg			5
Unknown Aromatic	66.2	J	mg/kg			5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-15 Date Collected: 03/17/22 10:20
Client ID: SB-214 (4-4.5) Date Received: 03/17/22
Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 16:46
Analyst: KJD
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00097	1
Chloromethane	ND		mg/kg	0.0042	0.00098	1
Vinyl chloride	ND		mg/kg	0.0010	0.00035	1
Bromomethane	ND		mg/kg	0.0021	0.00061	1
Chloroethane	ND		mg/kg	0.0021	0.00048	1
Trichlorofluoromethane	ND		mg/kg	0.0042	0.00073	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00025	1
Carbon disulfide	ND		mg/kg	0.010	0.0048	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0042	0.00073	1
Methylene chloride	ND		mg/kg	0.0053	0.0024	1
Acetone	0.031		mg/kg	0.026	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00014	1
Methyl Acetate	ND		mg/kg	0.0042	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	0.00092	J	mg/kg	0.010	0.00057	1
Bromochloromethane	ND		mg/kg	0.0021	0.00022	1
Chloroform	ND		mg/kg	0.0016	0.00015	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00053	0.00018	1
2-Butanone	0.0053	J	mg/kg	0.010	0.0023	1
Benzene	0.00030	J	mg/kg	0.00053	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Methyl cyclohexane	0.00093	J	mg/kg	0.0042	0.00064	1
Trichloroethene	ND		mg/kg	0.00053	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-15 Date Collected: 03/17/22 10:20

Client ID: SB-214 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00053	0.00012	1
1,4-Dioxane	ND		mg/kg	0.084	0.037	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00053	0.00017	1
Toluene	ND		mg/kg	0.0010	0.00057	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00053	0.00021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00029	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00053	0.00017	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00028	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00015	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00053	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00059	1
o-Xylene	ND		mg/kg	0.0010	0.00031	1
Xylenes, Total	ND		mg/kg	0.0010	0.00031	1
Styrene	ND		mg/kg	0.0010	0.00021	1
Bromoform	ND		mg/kg	0.0042	0.00026	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00053	0.00018	1
1,3,5-Trimethylbenzene	0.00021	J	mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	0.00046	J	mg/kg	0.0021	0.00035	1
1,3-Dichlorobenzene	ND		mg/kg	0.0021	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0021	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0032	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0021	0.00029	1
Naphthalene	0.052		mg/kg	0.0042	0.00069	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0021	0.00034	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-15 Date Collected: 03/17/22 10:20

Client ID: SB-214 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.0501	J	mg/kg			1
Acenaphthene	0.00540	NJ	mg/kg			1
Fluorene	0.00259	NJ	mg/kg			1
Unknown Aromatic	0.00967	J	mg/kg			1
Unknown	0.00277	J	mg/kg			1
Unknown Aromatic	0.0138	J	mg/kg			1
Dibenzofuran	0.00277	NJ	mg/kg			1
Unknown Naphthalene	0.00267	J	mg/kg			1
Unknown Naphthalene	0.00346	J	mg/kg			1
Unknown	0.00361	J	mg/kg			1
Cyclotrisiloxane, Hexamethyl-	0.00338	NJ	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16
Client ID: SB-215 (4.5-5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 10:30
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 14:24
Analyst: KJD
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	1.0	0.091	1
Chloromethane	ND		mg/kg	0.40	0.093	1
Vinyl chloride	ND		mg/kg	0.10	0.033	1
Bromomethane	ND		mg/kg	0.20	0.058	1
Chloroethane	ND		mg/kg	0.20	0.045	1
Trichlorofluoromethane	ND		mg/kg	0.40	0.069	1
1,1-Dichloroethene	ND		mg/kg	0.10	0.024	1
Carbon disulfide	ND		mg/kg	1.0	0.45	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.40	0.069	1
Methylene chloride	ND		mg/kg	0.50	0.23	1
Acetone	ND		mg/kg	1.0	0.48	1
trans-1,2-Dichloroethene	ND		mg/kg	0.15	0.014	1
Methyl Acetate	0.32	J	mg/kg	0.40	0.095	1
Methyl tert butyl ether	ND		mg/kg	0.20	0.020	1
1,1-Dichloroethane	ND		mg/kg	0.10	0.014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.10	0.017	1
1,2-Dichloroethene, Total	ND		mg/kg	0.10	0.014	1
Cyclohexane	0.48	J	mg/kg	1.0	0.054	1
Bromochloromethane	ND		mg/kg	0.20	0.020	1
Chloroform	ND		mg/kg	0.15	0.014	1
Carbon tetrachloride	ND		mg/kg	0.10	0.023	1
1,1,1-Trichloroethane	ND		mg/kg	0.050	0.017	1
2-Butanone	ND		mg/kg	1.0	0.22	1
Benzene	0.12		mg/kg	0.050	0.016	1
1,2-Dichloroethane	ND		mg/kg	0.10	0.026	1
Methyl cyclohexane	0.85		mg/kg	0.40	0.060	1
Trichloroethene	ND		mg/kg	0.050	0.014	1
1,2-Dichloropropane	ND		mg/kg	0.10	0.012	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 Date Collected: 03/17/22 10:30

Client ID: SB-215 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.050	0.011	1
1,4-Dioxane	ND		mg/kg	8.0	3.5	1
cis-1,3-Dichloropropene	ND		mg/kg	0.050	0.016	1
Toluene	0.98		mg/kg	0.10	0.054	1
4-Methyl-2-pentanone	ND		mg/kg	1.0	0.13	1
Tetrachloroethene	ND		mg/kg	0.050	0.020	1
trans-1,3-Dichloropropene	ND		mg/kg	0.10	0.027	1
1,3-Dichloropropene, Total	ND		mg/kg	0.050	0.016	1
1,1,2-Trichloroethane	ND		mg/kg	0.10	0.027	1
Dibromochloromethane	ND		mg/kg	0.10	0.014	1
1,2-Dibromoethane	ND		mg/kg	0.050	0.029	1
2-Hexanone	ND		mg/kg	1.0	0.12	1
Chlorobenzene	ND		mg/kg	0.050	0.013	1
Ethylbenzene	0.31		mg/kg	0.10	0.014	1
p/m-Xylene	2.0		mg/kg	0.20	0.056	1
o-Xylene	1.9		mg/kg	0.10	0.029	1
Xylenes, Total	3.9		mg/kg	0.10	0.029	1
Styrene	0.024	J	mg/kg	0.10	0.020	1
Bromoform	ND		mg/kg	0.40	0.024	1
Isopropylbenzene	0.14		mg/kg	0.10	0.011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.050	0.016	1
1,3,5-Trimethylbenzene	3.6		mg/kg	0.20	0.019	1
1,2,4-Trimethylbenzene	3.3		mg/kg	0.20	0.033	1
1,3-Dichlorobenzene	ND		mg/kg	0.20	0.015	1
1,4-Dichlorobenzene	ND		mg/kg	0.20	0.017	1
1,2-Dichlorobenzene	ND		mg/kg	0.20	0.014	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.30	0.10	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.20	0.027	1
Naphthalene	38.	E	mg/kg	0.40	0.065	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.20	0.032	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 Date Collected: 03/17/22 10:30

Client ID: SB-215 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	52.8	J	mg/kg			1
Unknown Aromatic	2.83	J	mg/kg			1
Benzene, 1-ethenyl-2-methyl-	2.52	NJ	mg/kg			1
Acenaphthene	5.44	NJ	mg/kg			1
Unknown Naphthalene	5.31	J	mg/kg			1
Unknown Aromatic	10.3	J	mg/kg			1
Unknown Aromatic	13.5	J	mg/kg			1
Unknown Benzene	2.82	J	mg/kg			1
Unknown Benzene	2.89	J	mg/kg			1
Unknown Organic Acid	3.82	J	mg/kg			1
Unknown	3.37	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16
Client ID: SB-215 (4.5-5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 10:30
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/30/22 18:52
Analyst: KJD
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0015	1
Chloromethane	ND		mg/kg	0.0064	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00054	1
Bromomethane	ND		mg/kg	0.0032	0.00093	1
Chloroethane	ND		mg/kg	0.0032	0.00073	1
Trichlorofluoromethane	ND		mg/kg	0.0064	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00038	1
Carbon disulfide	0.010	J	mg/kg	0.016	0.0073	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0064	0.0011	1
Methylene chloride	ND		mg/kg	0.0080	0.0037	1
Acetone	0.020	J	mg/kg	0.040	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00022	1
Methyl Acetate	ND		mg/kg	0.0064	0.0015	1
Methyl tert butyl ether	0.00065	J	mg/kg	0.0032	0.00032	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00023	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00028	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00022	1
Cyclohexane	0.052		mg/kg	0.016	0.00088	1
Bromochloromethane	ND		mg/kg	0.0032	0.00033	1
Chloroform	ND		mg/kg	0.0024	0.00022	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00037	1
1,1,1-Trichloroethane	ND		mg/kg	0.00080	0.00027	1
2-Butanone	ND		mg/kg	0.016	0.0036	1
Benzene	0.014		mg/kg	0.00080	0.00027	1
1,2-Dichloroethane	0.00043	J	mg/kg	0.0016	0.00041	1
Methyl cyclohexane	0.042		mg/kg	0.0064	0.00097	1
Trichloroethene	ND		mg/kg	0.00080	0.00022	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00020	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 Date Collected: 03/17/22 10:30

Client ID: SB-215 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00080	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.056	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00080	0.00025	1
Toluene	0.16		mg/kg	0.0016	0.00087	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0020	1
Tetrachloroethene	ND		mg/kg	0.00080	0.00032	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00044	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00080	0.00025	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00043	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00022	1
1,2-Dibromoethane	ND		mg/kg	0.00080	0.00047	1
2-Hexanone	ND		mg/kg	0.016	0.0019	1
Chlorobenzene	ND		mg/kg	0.00080	0.00020	1
Ethylbenzene	0.038		mg/kg	0.0016	0.00023	1
p/m-Xylene	0.27		mg/kg	0.0032	0.00090	1
o-Xylene	0.26		mg/kg	0.0016	0.00047	1
Xylenes, Total	0.53		mg/kg	0.0016	0.00047	1
Styrene	0.0011	J	mg/kg	0.0016	0.00032	1
Bromoform	ND		mg/kg	0.0064	0.00040	1
Isopropylbenzene	0.024		mg/kg	0.0016	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00080	0.00027	1
1,3,5-Trimethylbenzene	0.51	E	mg/kg	0.0032	0.00031	1
1,2,4-Trimethylbenzene	0.46		mg/kg	0.0032	0.00054	1
1,3-Dichlorobenzene	ND		mg/kg	0.0032	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0032	0.00028	1
1,2-Dichlorobenzene	ND		mg/kg	0.0032	0.00023	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0048	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0032	0.00044	1
Naphthalene	2.0	E	mg/kg	0.0064	0.0010	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0032	0.00052	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 Date Collected: 03/17/22 10:30

Client ID: SB-215 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.334	J	mg/kg			1
Cyclopentane, Methyl-	0.0737	NJ	mg/kg			1
Unknown	0.0662	J	mg/kg			1
Pentane	0.0181	NJ	mg/kg			1
Unknown Benzene	0.0185	J	mg/kg			1
Unknown Aromatic	0.0185	J	mg/kg			1
Indane	0.0198	NJ	mg/kg			1
Butane, 2-Methyl-	0.0585	NJ	mg/kg			1
Unknown	0.0192	J	mg/kg			1
Pentane, 3-methyl-	0.0199	NJ	mg/kg			1
Unknown Benzene	0.0217	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	**150**	Q	70-130
Dibromofluoromethane	70		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 R
Client ID: SB-215 (4.5-5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 10:30
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/31/22 10:39
Analyst: KJD
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.017	0.0015	1
Chloromethane	ND		mg/kg	0.0067	0.0016	1
Vinyl chloride	ND		mg/kg	0.0017	0.00056	1
Bromomethane	ND		mg/kg	0.0034	0.00098	1
Chloroethane	ND		mg/kg	0.0034	0.00076	1
Trichlorofluoromethane	ND		mg/kg	0.0067	0.0012	1
1,1-Dichloroethene	ND		mg/kg	0.0017	0.00040	1
Carbon disulfide	ND		mg/kg	0.017	0.0076	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0067	0.0012	1
Methylene chloride	ND		mg/kg	0.0084	0.0038	1
Acetone	0.018	J	mg/kg	0.042	0.017	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0025	0.00023	1
Methyl Acetate	ND		mg/kg	0.0067	0.0016	1
Methyl tert butyl ether	0.00043	J	mg/kg	0.0034	0.00034	1
1,1-Dichloroethane	ND		mg/kg	0.0017	0.00024	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00029	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0017	0.00023	1
Cyclohexane	0.047		mg/kg	0.017	0.00091	1
Bromochloromethane	ND		mg/kg	0.0034	0.00034	1
Chloroform	ND		mg/kg	0.0025	0.00024	1
Carbon tetrachloride	ND		mg/kg	0.0017	0.00039	1
1,1,1-Trichloroethane	ND		mg/kg	0.00084	0.00028	1
2-Butanone	ND		mg/kg	0.017	0.0037	1
Benzene	0.015		mg/kg	0.00084	0.00028	1
1,2-Dichloroethane	0.00044	J	mg/kg	0.0017	0.00043	1
Methyl cyclohexane	0.034		mg/kg	0.0067	0.0010	1
Trichloroethene	ND		mg/kg	0.00084	0.00023	1
1,2-Dichloropropane	ND		mg/kg	0.0017	0.00021	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 R Date Collected: 03/17/22 10:30

Client ID: SB-215 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00084	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.059	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00084	0.00026	1
Toluene	0.19		mg/kg	0.0017	0.00091	1
4-Methyl-2-pentanone	ND		mg/kg	0.017	0.0021	1
Tetrachloroethene	ND		mg/kg	0.00084	0.00033	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0017	0.00046	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00084	0.00026	1
1,1,2-Trichloroethane	ND		mg/kg	0.0017	0.00045	1
Dibromochloromethane	ND		mg/kg	0.0017	0.00024	1
1,2-Dibromoethane	ND		mg/kg	0.00084	0.00049	1
2-Hexanone	ND		mg/kg	0.017	0.0020	1
Chlorobenzene	ND		mg/kg	0.00084	0.00021	1
Ethylbenzene	0.039		mg/kg	0.0017	0.00024	1
p/m-Xylene	0.30		mg/kg	0.0034	0.00094	1
o-Xylene	0.30		mg/kg	0.0017	0.00049	1
Xylenes, Total	0.60		mg/kg	0.0017	0.00049	1
Styrene	0.00092	J	mg/kg	0.0017	0.00033	1
Bromoform	ND		mg/kg	0.0067	0.00041	1
Isopropylbenzene	0.020		mg/kg	0.0017	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00084	0.00028	1
1,3,5-Trimethylbenzene	0.53	E	mg/kg	0.0034	0.00032	1
1,2,4-Trimethylbenzene	0.48		mg/kg	0.0034	0.00056	1
1,3-Dichlorobenzene	ND		mg/kg	0.0034	0.00025	1
1,4-Dichlorobenzene	ND		mg/kg	0.0034	0.00029	1
1,2-Dichlorobenzene	ND		mg/kg	0.0034	0.00024	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0050	0.0017	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0034	0.00046	1
Naphthalene	1.9	E	mg/kg	0.0067	0.0011	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0034	0.00054	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 R Date Collected: 03/17/22 10:30
Client ID: SB-215 (4.5-5) Date Received: 03/17/22
Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	2.45	J	mg/kg			1
Unknown Aromatic	0.179	J	mg/kg			1
Benzene, 1-ethenyl-3-ethyl-	0.136	NJ	mg/kg			1
Unknown Aromatic	0.166	J	mg/kg			1
Unknown Benzene	0.300	J	mg/kg			1
Indane	0.262	NJ	mg/kg			1
Unknown Benzene	0.224	J	mg/kg			1
Unknown Benzene	0.330	J	mg/kg			1
Unknown Benzene	0.140	J	mg/kg			1
Unknown Benzene	0.512	J	mg/kg			1
Unknown Benzene	0.197	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	129		70-130
4-Bromofluorobenzene	**149**	Q	70-130
Dibromofluoromethane	76		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17
Client ID: SB-216 (3.5-4)
Sample Location: PHILA., PA
Date Collected: 03/17/22 10:40
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 14:48
Analyst: KJD
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.96	0.088	1
Chloromethane	ND		mg/kg	0.39	0.090	1
Vinyl chloride	ND		mg/kg	0.096	0.032	1
Bromomethane	ND		mg/kg	0.19	0.056	1
Chloroethane	ND		mg/kg	0.19	0.044	1
Trichlorofluoromethane	ND		mg/kg	0.39	0.067	1
1,1-Dichloroethene	ND		mg/kg	0.096	0.023	1
Carbon disulfide	ND		mg/kg	0.96	0.44	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.39	0.067	1
Methylene chloride	ND		mg/kg	0.48	0.22	1
Acetone	ND		mg/kg	0.96	0.46	1
trans-1,2-Dichloroethene	ND		mg/kg	0.14	0.013	1
Methyl Acetate	ND		mg/kg	0.39	0.092	1
Methyl tert butyl ether	ND		mg/kg	0.19	0.019	1
1,1-Dichloroethane	ND		mg/kg	0.096	0.014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.096	0.017	1
1,2-Dichloroethene, Total	ND		mg/kg	0.096	0.013	1
Cyclohexane	0.56	J	mg/kg	0.96	0.052	1
Bromochloromethane	ND		mg/kg	0.19	0.020	1
Chloroform	ND		mg/kg	0.14	0.014	1
Carbon tetrachloride	ND		mg/kg	0.096	0.022	1
1,1,1-Trichloroethane	ND		mg/kg	0.048	0.016	1
2-Butanone	ND		mg/kg	0.96	0.21	1
Benzene	0.27		mg/kg	0.048	0.016	1
1,2-Dichloroethane	0.057	J	mg/kg	0.096	0.025	1
Methyl cyclohexane	0.58		mg/kg	0.39	0.058	1
Trichloroethene	ND		mg/kg	0.048	0.013	1
1,2-Dichloropropane	ND		mg/kg	0.096	0.012	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17 Date Collected: 03/17/22 10:40

Client ID: SB-216 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.048	0.010	1
1,4-Dioxane	ND		mg/kg	7.7	3.4	1
cis-1,3-Dichloropropene	ND		mg/kg	0.048	0.015	1
Toluene	1.2		mg/kg	0.096	0.052	1
4-Methyl-2-pentanone	ND		mg/kg	0.96	0.12	1
Tetrachloroethene	ND		mg/kg	0.048	0.019	1
trans-1,3-Dichloropropene	ND		mg/kg	0.096	0.026	1
1,3-Dichloropropene, Total	ND		mg/kg	0.048	0.015	1
1,1,2-Trichloroethane	ND		mg/kg	0.096	0.026	1
Dibromochloromethane	ND		mg/kg	0.096	0.014	1
1,2-Dibromoethane	ND		mg/kg	0.048	0.028	1
2-Hexanone	ND		mg/kg	0.96	0.11	1
Chlorobenzene	ND		mg/kg	0.048	0.012	1
Ethylbenzene	0.21		mg/kg	0.096	0.014	1
p/m-Xylene	2.4		mg/kg	0.19	0.054	1
o-Xylene	2.3		mg/kg	0.096	0.028	1
Xylenes, Total	4.7		mg/kg	0.096	0.028	1
Styrene	0.022	J	mg/kg	0.096	0.019	1
Bromoform	ND		mg/kg	0.39	0.024	1
Isopropylbenzene	0.050	J	mg/kg	0.096	0.010	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.048	0.016	1
1,3,5-Trimethylbenzene	3.6		mg/kg	0.19	0.019	1
1,2,4-Trimethylbenzene	1.8		mg/kg	0.19	0.032	1
1,3-Dichlorobenzene	ND		mg/kg	0.19	0.014	1
1,4-Dichlorobenzene	ND		mg/kg	0.19	0.016	1
1,2-Dichlorobenzene	ND		mg/kg	0.19	0.014	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.29	0.096	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.19	0.026	1
Naphthalene	0.94		mg/kg	0.39	0.063	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.19	0.031	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17 Date Collected: 03/17/22 10:40

Client ID: SB-216 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	48.9	J	mg/kg			1
Unknown Aromatic	6.67	J	mg/kg			1
Unknown	2.92	J	mg/kg			1
Unknown Aromatic	3.36	J	mg/kg			1
Unknown Aromatic	7.02	J	mg/kg			1
Unknown	2.88	J	mg/kg			1
Unknown	7.16	J	mg/kg			1
Unknown Aromatic	4.81	J	mg/kg			1
Unknown Aromatic	6.00	J	mg/kg			1
Unknown Naphthalene	3.37	J	mg/kg			1
Unknown Aromatic	4.75	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17 Date Collected: 03/17/22 10:40
Client ID: SB-216 (3.5-4) Date Received: 03/17/22
Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/29/22 21:39
Analyst: KJD
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0056	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00047	1
Bromomethane	ND		mg/kg	0.0028	0.00081	1
Chloroethane	ND		mg/kg	0.0028	0.00063	1
Trichlorofluoromethane	ND		mg/kg	0.0056	0.00097	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00033	1
Carbon disulfide	ND		mg/kg	0.014	0.0064	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0056	0.00097	1
Methylene chloride	ND		mg/kg	0.0070	0.0032	1
Acetone	ND		mg/kg	0.035	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00019	1
Methyl Acetate	ND		mg/kg	0.0056	0.0013	1
Methyl tert butyl ether	ND		mg/kg	0.0028	0.00028	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00020	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00024	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00019	1
Cyclohexane	0.077		mg/kg	0.014	0.00076	1
Bromochloromethane	ND		mg/kg	0.0028	0.00029	1
Chloroform	ND		mg/kg	0.0021	0.00020	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00032	1
1,1,1-Trichloroethane	ND		mg/kg	0.00070	0.00023	1
2-Butanone	ND		mg/kg	0.014	0.0031	1
Benzene	0.0054		mg/kg	0.00070	0.00023	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00036	1
Methyl cyclohexane	0.052		mg/kg	0.0056	0.00084	1
Trichloroethene	ND		mg/kg	0.00070	0.00019	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00017	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17 Date Collected: 03/17/22 10:40

Client ID: SB-216 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00070	0.00015	1
1,4-Dioxane	ND		mg/kg	0.11	0.049	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00070	0.00022	1
Toluene	0.024		mg/kg	0.0014	0.00076	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00070	0.00027	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00038	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00070	0.00022	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00037	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00020	1
1,2-Dibromoethane	ND		mg/kg	0.00070	0.00041	1
2-Hexanone	ND		mg/kg	0.014	0.0016	1
Chlorobenzene	ND		mg/kg	0.00070	0.00018	1
Ethylbenzene	0.0058		mg/kg	0.0014	0.00020	1
p/m-Xylene	0.13		mg/kg	0.0028	0.00078	1
o-Xylene	0.25		mg/kg	0.0014	0.00041	1
Xylenes, Total	0.38		mg/kg	0.0014	0.00041	1
Styrene	ND		mg/kg	0.0014	0.00027	1
Bromoform	ND		mg/kg	0.0056	0.00034	1
Isopropylbenzene	0.0044		mg/kg	0.0014	0.00015	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00070	0.00023	1
1,3,5-Trimethylbenzene	0.43	E	mg/kg	0.0028	0.00027	1
1,2,4-Trimethylbenzene	0.20		mg/kg	0.0028	0.00047	1
1,3-Dichlorobenzene	ND		mg/kg	0.0028	0.00021	1
1,4-Dichlorobenzene	ND		mg/kg	0.0028	0.00024	1
1,2-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0042	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0028	0.00038	1
Naphthalene	0.024		mg/kg	0.0056	0.00091	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0028	0.00045	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17 Date Collected: 03/17/22 10:40

Client ID: SB-216 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	1.53	J	mg/kg			1
Unknown Benzene	0.192	J	mg/kg			1
Unknown Benzene	0.194	J	mg/kg			1
Unknown Aromatic	0.131	J	mg/kg			1
Unknown	0.258	J	mg/kg			1
Unknown Benzene	0.105	J	mg/kg			1
Unknown Benzene	0.150	J	mg/kg			1
Unknown	0.107	J	mg/kg			1
Unknown Naphthalene	0.122	J	mg/kg			1
Unknown Aromatic	0.133	J	mg/kg			1
Unknown Aromatic	0.140	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	75		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-18 D
Client ID: SB-217 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/17/22 11:25
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/29/22 22:25
Analyst: KJD
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	4.0	0.37	5
Chloromethane	ND		mg/kg	1.6	0.37	5
Vinyl chloride	ND		mg/kg	0.40	0.13	5
Bromomethane	ND		mg/kg	0.80	0.23	5
Chloroethane	ND		mg/kg	0.80	0.18	5
Trichlorofluoromethane	ND		mg/kg	1.6	0.28	5
1,1-Dichloroethene	ND		mg/kg	0.40	0.095	5
Carbon disulfide	ND		mg/kg	4.0	1.8	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.6	0.28	5
Methylene chloride	ND		mg/kg	2.0	0.92	5
Acetone	ND		mg/kg	4.0	1.9	5
trans-1,2-Dichloroethene	ND		mg/kg	0.60	0.055	5
Methyl Acetate	ND		mg/kg	1.6	0.38	5
Methyl tert butyl ether	ND		mg/kg	0.80	0.080	5
1,1-Dichloroethane	ND		mg/kg	0.40	0.058	5
cis-1,2-Dichloroethene	ND		mg/kg	0.40	0.070	5
1,2-Dichloroethene, Total	ND		mg/kg	0.40	0.055	5
Cyclohexane	33.		mg/kg	4.0	0.22	5
Bromochloromethane	ND		mg/kg	0.80	0.082	5
Chloroform	ND		mg/kg	0.60	0.056	5
Carbon tetrachloride	ND		mg/kg	0.40	0.092	5
1,1,1-Trichloroethane	ND		mg/kg	0.20	0.067	5
2-Butanone	ND		mg/kg	4.0	0.89	5
Benzene	1.0		mg/kg	0.20	0.066	5
1,2-Dichloroethane	ND		mg/kg	0.40	0.10	5
Methyl cyclohexane	110		mg/kg	1.6	0.24	5
Trichloroethene	ND		mg/kg	0.20	0.055	5
1,2-Dichloropropane	ND		mg/kg	0.40	0.050	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-18 D Date Collected: 03/17/22 11:25

Client ID: SB-217 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.20	0.044	5
1,4-Dioxane	ND		mg/kg	32	14.	5
cis-1,3-Dichloropropene	ND		mg/kg	0.20	0.063	5
Toluene	0.83		mg/kg	0.40	0.22	5
4-Methyl-2-pentanone	ND		mg/kg	4.0	0.51	5
Tetrachloroethene	ND		mg/kg	0.20	0.078	5
trans-1,3-Dichloropropene	ND		mg/kg	0.40	0.11	5
1,3-Dichloropropene, Total	ND		mg/kg	0.20	0.063	5
1,1,2-Trichloroethane	ND		mg/kg	0.40	0.11	5
Dibromochloromethane	ND		mg/kg	0.40	0.056	5
1,2-Dibromoethane	ND		mg/kg	0.20	0.12	5
2-Hexanone	ND		mg/kg	4.0	0.47	5
Chlorobenzene	ND		mg/kg	0.20	0.051	5
Ethylbenzene	0.60		mg/kg	0.40	0.056	5
p/m-Xylene	2.3		mg/kg	0.80	0.22	5
o-Xylene	0.48		mg/kg	0.40	0.12	5
Xylenes, Total	2.8		mg/kg	0.40	0.12	5
Styrene	ND		mg/kg	0.40	0.078	5
Bromoform	ND		mg/kg	1.6	0.098	5
Isopropylbenzene	14.		mg/kg	0.40	0.044	5
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.20	0.066	5
1,3,5-Trimethylbenzene	1.0		mg/kg	0.80	0.077	5
1,2,4-Trimethylbenzene	3.6		mg/kg	0.80	0.13	5
1,3-Dichlorobenzene	ND		mg/kg	0.80	0.059	5
1,4-Dichlorobenzene	ND		mg/kg	0.80	0.068	5
1,2-Dichlorobenzene	ND		mg/kg	0.80	0.058	5
1,2-Dibromo-3-chloropropane	ND		mg/kg	1.2	0.40	5
1,2,4-Trichlorobenzene	ND		mg/kg	0.80	0.11	5
Naphthalene	1.9		mg/kg	1.6	0.26	5
1,2,3-Trichlorobenzene	ND		mg/kg	0.80	0.13	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-18 D Date Collected: 03/17/22 11:25

Client ID: SB-217 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	414.	J	mg/kg			5
Hexane, 3-methyl-	38.3	NJ	mg/kg			5
Unknown Aromatic	43.5	J	mg/kg			5
Unknown Benzene	24.3	J	mg/kg			5
Benzene, 1,2-diethyl-	29.1	NJ	mg/kg			5
Benzene, (2-methyl-1-butenyl)-	24.1	NJ	mg/kg			5
Heptane, 3-methyl-	63.3	NJ	mg/kg			5
Unknown Benzene	44.0	J	mg/kg			5
Unknown Cyclohexane	54.0	J	mg/kg			5
Unknown Alkane	53.4	J	mg/kg			5
Indan, 1-methyl-	39.9	NJ	mg/kg			5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	80		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	**155**	Q	70-130
Dibromofluoromethane	72		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19
Client ID: DUP-1
Sample Location: PHILA., PA
Date Collected: 03/17/22 00:00
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 15:35
Analyst: KJD
Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.89	0.082	1
Chloromethane	ND		mg/kg	0.36	0.083	1
Vinyl chloride	ND		mg/kg	0.089	0.030	1
Bromomethane	ND		mg/kg	0.18	0.052	1
Chloroethane	ND		mg/kg	0.18	0.040	1
Trichlorofluoromethane	ND		mg/kg	0.36	0.062	1
1,1-Dichloroethene	ND		mg/kg	0.089	0.021	1
Carbon disulfide	ND		mg/kg	0.89	0.41	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.36	0.062	1
Methylene chloride	ND		mg/kg	0.45	0.20	1
Acetone	ND		mg/kg	0.89	0.43	1
trans-1,2-Dichloroethene	ND		mg/kg	0.13	0.012	1
Methyl Acetate	ND		mg/kg	0.36	0.085	1
Methyl tert butyl ether	ND		mg/kg	0.18	0.018	1
1,1-Dichloroethane	ND		mg/kg	0.089	0.013	1
cis-1,2-Dichloroethene	ND		mg/kg	0.089	0.016	1
1,2-Dichloroethene, Total	ND		mg/kg	0.089	0.012	1
Cyclohexane	0.17	J	mg/kg	0.89	0.049	1
Bromochloromethane	ND		mg/kg	0.18	0.018	1
Chloroform	ND		mg/kg	0.13	0.012	1
Carbon tetrachloride	ND		mg/kg	0.089	0.020	1
1,1,1-Trichloroethane	ND		mg/kg	0.045	0.015	1
2-Butanone	ND		mg/kg	0.89	0.20	1
Benzene	0.21		mg/kg	0.045	0.015	1
1,2-Dichloroethane	ND		mg/kg	0.089	0.023	1
Methyl cyclohexane	0.21	J	mg/kg	0.36	0.054	1
Trichloroethene	ND		mg/kg	0.045	0.012	1
1,2-Dichloropropane	ND		mg/kg	0.089	0.011	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19 Date Collected: 03/17/22 00:00

Client ID: DUP-1 Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.045	0.0097	1
1,4-Dioxane	ND		mg/kg	7.2	3.1	1
cis-1,3-Dichloropropene	ND		mg/kg	0.045	0.014	1
Toluene	0.78		mg/kg	0.089	0.048	1
4-Methyl-2-pentanone	ND		mg/kg	0.89	0.11	1
Tetrachloroethene	ND		mg/kg	0.045	0.018	1
trans-1,3-Dichloropropene	ND		mg/kg	0.089	0.024	1
1,3-Dichloropropene, Total	ND		mg/kg	0.045	0.014	1
1,1,2-Trichloroethane	ND		mg/kg	0.089	0.024	1
Dibromochloromethane	ND		mg/kg	0.089	0.012	1
1,2-Dibromoethane	ND		mg/kg	0.045	0.026	1
2-Hexanone	ND		mg/kg	0.89	0.10	1
Chlorobenzene	ND		mg/kg	0.045	0.011	1
Ethylbenzene	0.17		mg/kg	0.089	0.013	1
p/m-Xylene	1.0		mg/kg	0.18	0.050	1
o-Xylene	0.84		mg/kg	0.089	0.026	1
Xylenes, Total	1.8		mg/kg	0.089	0.026	1
Styrene	0.059	J	mg/kg	0.089	0.018	1
Bromoform	ND		mg/kg	0.36	0.022	1
Isopropylbenzene	0.040	J	mg/kg	0.089	0.0097	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.045	0.015	1
1,3,5-Trimethylbenzene	0.71		mg/kg	0.18	0.017	1
1,2,4-Trimethylbenzene	0.92		mg/kg	0.18	0.030	1
1,3-Dichlorobenzene	ND		mg/kg	0.18	0.013	1
1,4-Dichlorobenzene	ND		mg/kg	0.18	0.015	1
1,2-Dichlorobenzene	ND		mg/kg	0.18	0.013	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.27	0.089	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.18	0.024	1
Naphthalene	35.	E	mg/kg	0.36	0.058	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.18	0.029	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19 Date Collected: 03/17/22 00:00

Client ID: DUP-1 Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	93.6	J	mg/kg			1
Unknown Biphenyl	3.99	J	mg/kg			1
Unknown Aromatic	14.2	J	mg/kg			1
Unknown Naphthalene	9.36	J	mg/kg			1
Unknown Naphthalene	5.36	J	mg/kg			1
Unknown Aromatic	4.70	J	mg/kg			1
Fluorene	5.65	NJ	mg/kg			1
Unknown Aromatic	24.5	J	mg/kg			1
Unknown Naphthalene	8.82	J	mg/kg			1
Dibenzofuran	7.53	NJ	mg/kg			1
Acenaphthene	9.51	NJ	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	113		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19
Client ID: DUP-1
Sample Location: PHILA., PA
Date Collected: 03/17/22 00:00
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/29/22 23:34
Analyst: KJD
Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0058	0.0014	1
Vinyl chloride	ND		mg/kg	0.0014	0.00048	1
Bromomethane	ND		mg/kg	0.0029	0.00084	1
Chloroethane	ND		mg/kg	0.0029	0.00066	1
Trichlorofluoromethane	ND		mg/kg	0.0058	0.0010	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00034	1
Carbon disulfide	ND		mg/kg	0.014	0.0066	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0058	0.0010	1
Methylene chloride	ND		mg/kg	0.0072	0.0033	1
Acetone	0.060		mg/kg	0.036	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0022	0.00020	1
Methyl Acetate	ND		mg/kg	0.0058	0.0014	1
Methyl tert butyl ether	0.00046	J	mg/kg	0.0029	0.00029	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00021	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00025	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00020	1
Cyclohexane	0.046		mg/kg	0.014	0.00079	1
Bromochloromethane	ND		mg/kg	0.0029	0.00030	1
Chloroform	ND		mg/kg	0.0022	0.00020	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00033	1
1,1,1-Trichloroethane	ND		mg/kg	0.00072	0.00024	1
2-Butanone	0.0066	J	mg/kg	0.014	0.0032	1
Benzene	0.019		mg/kg	0.00072	0.00024	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00037	1
Methyl cyclohexane	0.040		mg/kg	0.0058	0.00087	1
Trichloroethene	ND		mg/kg	0.00072	0.00020	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00018	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19 Date Collected: 03/17/22 00:00

Client ID: DUP-1 Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00072	0.00016	1
1,4-Dioxane	ND		mg/kg	0.12	0.051	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00072	0.00023	1
Toluene	0.077		mg/kg	0.0014	0.00079	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00072	0.00028	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00040	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00072	0.00023	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00039	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00020	1
1,2-Dibromoethane	ND		mg/kg	0.00072	0.00042	1
2-Hexanone	ND		mg/kg	0.014	0.0017	1
Chlorobenzene	ND		mg/kg	0.00072	0.00018	1
Ethylbenzene	0.027		mg/kg	0.0014	0.00020	1
p/m-Xylene	0.16		mg/kg	0.0029	0.00081	1
o-Xylene	0.18		mg/kg	0.0014	0.00042	1
Xylenes, Total	0.34		mg/kg	0.0014	0.00042	1
Styrene	0.0050		mg/kg	0.0014	0.00028	1
Bromoform	ND		mg/kg	0.0058	0.00036	1
Isopropylbenzene	0.011		mg/kg	0.0014	0.00016	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00072	0.00024	1
1,3,5-Trimethylbenzene	0.19		mg/kg	0.0029	0.00028	1
1,2,4-Trimethylbenzene	0.20		mg/kg	0.0029	0.00048	1
1,3-Dichlorobenzene	ND		mg/kg	0.0029	0.00021	1
1,4-Dichlorobenzene	ND		mg/kg	0.0029	0.00025	1
1,2-Dichlorobenzene	ND		mg/kg	0.0029	0.00021	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0043	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0029	0.00039	1
Naphthalene	3.4	E	mg/kg	0.0058	0.00094	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0029	0.00047	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19 Date Collected: 03/17/22 00:00

Client ID: DUP-1 Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.741	J	mg/kg			1
Unknown	0.166	J	mg/kg			1
Indane	0.0309	NJ	mg/kg			1
Unknown Naphthalene	0.0270	J	mg/kg			1
Unknown	0.0287	J	mg/kg			1
Unknown	0.276	J	mg/kg			1
Unknown Aromatic	0.0270	J	mg/kg			1
Unknown Aromatic	0.0349	J	mg/kg			1
Unknown Naphthalene	0.0472	J	mg/kg			1
Acenaphthene	0.0519	NJ	mg/kg			1
Unknown Naphthalene	0.0514	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	75		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-20
Client ID: FIELD BLANK
Sample Location: PHILA., PA
Date Collected: 03/17/22 11:35
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/24/22 08:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-20 Date Collected: 03/17/22 11:35

Client ID: FIELD BLANK Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/l	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-20 Date Collected: 03/17/22 11:35

Client ID: FIELD BLANK Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2213931
Project Number: 30108678.03C
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-20
Client ID: FIELD BLANK
Sample Location: PHILA., PA
Date Collected: 03/17/22 11:35
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 03/24/22 08:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	99		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-21
Client ID: TRIP BLANK
Sample Location: PHILA., PA

Date Collected: 03/17/22 00:00
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/24/22 07:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-21 Date Collected: 03/17/22 00:00

Client ID: TRIP BLANK Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	ug/l	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-21 Date Collected: 03/17/22 00:00

Client ID: TRIP BLANK Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-21
Client ID: TRIP BLANK
Sample Location: PHILA., PA
Date Collected: 03/17/22 00:00
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 03/24/22 07:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
4-Bromofluorobenzene	99		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 03/24/22 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 20-21 Batch: WG1619571-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
4-Bromofluorobenzene	99		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/24/22 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 20-21 Batch: WG1619572-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/24/22 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 20-21 Batch: WG1619572-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/24/22 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 20-21 Batch: WG1619572-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/25/22 08:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,09-13,15 Batch: WG1620536-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	0.0027	J	mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/25/22 08:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,09-13,15 Batch: WG1620536-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
Naphthalene	ND		mg/kg	0.0040	0.00065
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/25/22 08:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,09-13,15 Batch: WG1620536-5					
Tentatively Identified Compounds					
Total TIC Compounds	0.0236	J	mg/kg		
Unknown	0.00201	J	mg/kg		
Unknown	0.0185	J	mg/kg		
Unknown	0.00312	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/28/22 10:02
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-05 Batch: WG1620539-10					
Dichlorodifluoromethane	ND		mg/kg	0.50	0.046
Chloromethane	ND		mg/kg	0.20	0.047
Vinyl chloride	ND		mg/kg	0.050	0.017
Bromomethane	ND		mg/kg	0.10	0.029
Chloroethane	ND		mg/kg	0.10	0.023
Trichlorofluoromethane	ND		mg/kg	0.20	0.035
1,1-Dichloroethene	ND		mg/kg	0.050	0.012
Carbon disulfide	ND		mg/kg	0.50	0.23
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.20	0.035
Methylene chloride	ND		mg/kg	0.25	0.11
Acetone	ND		mg/kg	0.50	0.24
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.0068
Methyl Acetate	0.10	J	mg/kg	0.20	0.048
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
1,1-Dichloroethane	ND		mg/kg	0.050	0.0072
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.0088
1,2-Dichloroethene, Total	ND		mg/kg	0.050	0.0068
Cyclohexane	ND		mg/kg	0.50	0.027
Bromochloromethane	ND		mg/kg	0.10	0.010
Chloroform	ND		mg/kg	0.075	0.0070
Carbon tetrachloride	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.025	0.0084
2-Butanone	ND		mg/kg	0.50	0.11
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Methyl cyclohexane	ND		mg/kg	0.20	0.030
Trichloroethene	ND		mg/kg	0.025	0.0068
1,2-Dichloropropane	ND		mg/kg	0.050	0.0062
Bromodichloromethane	ND		mg/kg	0.025	0.0054

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/28/22 10:02
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-05 Batch: WG1620539-10					
1,4-Dioxane	ND		mg/kg	4.0	1.8
cis-1,3-Dichloropropene	ND		mg/kg	0.025	0.0079
Toluene	ND		mg/kg	0.050	0.027
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.064
Tetrachloroethene	ND		mg/kg	0.025	0.0098
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.014
1,3-Dichloropropene, Total	ND		mg/kg	0.025	0.0079
1,1,2-Trichloroethane	ND		mg/kg	0.050	0.013
Dibromochloromethane	ND		mg/kg	0.050	0.0070
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
2-Hexanone	ND		mg/kg	0.50	0.059
Chlorobenzene	ND		mg/kg	0.025	0.0064
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Styrene	ND		mg/kg	0.050	0.0098
Bromoform	ND		mg/kg	0.20	0.012
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.025	0.0083
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017
1,3-Dichlorobenzene	ND		mg/kg	0.10	0.0074
1,4-Dichlorobenzene	ND		mg/kg	0.10	0.0086
1,2-Dichlorobenzene	ND		mg/kg	0.10	0.0072
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.050
1,2,4-Trichlorobenzene	ND		mg/kg	0.10	0.014
Naphthalene	ND		mg/kg	0.20	0.032
1,2,3-Trichlorobenzene	ND		mg/kg	0.10	0.016

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/28/22 10:02
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-05 Batch: WG1620539-10					
Tentatively Identified Compounds					
Total TIC Compounds	0.602	J	mg/kg		
Unknown	0.124	J	mg/kg		
1-Hexanol, 2-ethyl-	0.204	NJ	mg/kg		
Cyclotrisiloxane, Hexamethyl-	0.156	NJ	mg/kg		
Unknown	0.118	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/25/22 08:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-04,06,16-17,19 Batch: WG1620539-5					
Dichlorodifluoromethane	ND		mg/kg	0.50	0.046
Chloromethane	ND		mg/kg	0.20	0.047
Vinyl chloride	ND		mg/kg	0.050	0.017
Bromomethane	ND		mg/kg	0.10	0.029
Chloroethane	ND		mg/kg	0.10	0.023
Trichlorofluoromethane	ND		mg/kg	0.20	0.035
1,1-Dichloroethene	ND		mg/kg	0.050	0.012
Carbon disulfide	ND		mg/kg	0.50	0.23
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.20	0.035
Methylene chloride	ND		mg/kg	0.25	0.11
Acetone	ND		mg/kg	0.50	0.24
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.0068
Methyl Acetate	0.14	J	mg/kg	0.20	0.048
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
1,1-Dichloroethane	ND		mg/kg	0.050	0.0072
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.0088
1,2-Dichloroethene, Total	ND		mg/kg	0.050	0.0068
Cyclohexane	ND		mg/kg	0.50	0.027
Bromochloromethane	ND		mg/kg	0.10	0.010
Chloroform	ND		mg/kg	0.075	0.0070
Carbon tetrachloride	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.025	0.0084
2-Butanone	ND		mg/kg	0.50	0.11
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Methyl cyclohexane	ND		mg/kg	0.20	0.030
Trichloroethene	ND		mg/kg	0.025	0.0068
1,2-Dichloropropane	ND		mg/kg	0.050	0.0062
Bromodichloromethane	ND		mg/kg	0.025	0.0054

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/25/22 08:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-04,06,16-17,19 Batch: WG1620539-5					
1,4-Dioxane	ND		mg/kg	4.0	1.8
cis-1,3-Dichloropropene	ND		mg/kg	0.025	0.0079
Toluene	ND		mg/kg	0.050	0.027
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.064
Tetrachloroethene	ND		mg/kg	0.025	0.0098
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.014
1,3-Dichloropropene, Total	ND		mg/kg	0.025	0.0079
1,1,2-Trichloroethane	ND		mg/kg	0.050	0.013
Dibromochloromethane	ND		mg/kg	0.050	0.0070
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
2-Hexanone	ND		mg/kg	0.50	0.059
Chlorobenzene	ND		mg/kg	0.025	0.0064
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Styrene	ND		mg/kg	0.050	0.0098
Bromoform	ND		mg/kg	0.20	0.012
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.025	0.0083
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017
1,3-Dichlorobenzene	ND		mg/kg	0.10	0.0074
1,4-Dichlorobenzene	ND		mg/kg	0.10	0.0086
1,2-Dichlorobenzene	ND		mg/kg	0.10	0.0072
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.050
1,2,4-Trichlorobenzene	ND		mg/kg	0.10	0.014
Naphthalene	ND		mg/kg	0.20	0.032
1,2,3-Trichlorobenzene	ND		mg/kg	0.10	0.016

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/25/22 08:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-04,06,16-17,19 Batch: WG1620539-5					
Tentatively Identified Compounds					
Total TIC Compounds	1.18	J	mg/kg		
Unknown	0.100	J	mg/kg		
1-Hexanol, 2-ethyl-	0.925	NJ	mg/kg		
Unknown	0.156	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/28/22 10:02
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07 Batch: WG1621094-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	0.0021	J	mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/28/22 10:02
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07 Batch: WG1621094-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
Naphthalene	ND		mg/kg	0.0040	0.00065
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/28/22 10:02
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07 Batch: WG1621094-5					
Tentatively Identified Compounds					
Total TIC Compounds	0.0120	J	mg/kg		
Unknown	0.00236	J	mg/kg		
1-Hexanol, 2-ethyl-	0.00409	NJ	mg/kg		
Cyclotrisiloxane, Hexamethyl-	0.00313	NJ	mg/kg		
Unknown	0.00247	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/29/22 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08,17,19 Batch: WG1621453-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/29/22 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08,17,19 Batch: WG1621453-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/29/22 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08,17,19 Batch: WG1621453-5					
Tentatively Identified Compounds					
Total TIC Compounds	0.00541	J	mg/kg		
Unknown	0.00244	J	mg/kg		
Cyclotrisiloxane, Hexamethyl-	0.00297	NJ	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/29/22 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 18 Batch: WG1621455-5					
Dichlorodifluoromethane	ND		mg/kg	0.50	0.046
Chloromethane	ND		mg/kg	0.20	0.047
Vinyl chloride	ND		mg/kg	0.050	0.017
Bromomethane	ND		mg/kg	0.10	0.029
Chloroethane	ND		mg/kg	0.10	0.023
Trichlorofluoromethane	ND		mg/kg	0.20	0.035
1,1-Dichloroethene	ND		mg/kg	0.050	0.012
Carbon disulfide	ND		mg/kg	0.50	0.23
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.20	0.035
Methylene chloride	ND		mg/kg	0.25	0.11
Acetone	ND		mg/kg	0.50	0.24
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.0068
Methyl Acetate	ND		mg/kg	0.20	0.048
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
1,1-Dichloroethane	ND		mg/kg	0.050	0.0072
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.0088
1,2-Dichloroethene, Total	ND		mg/kg	0.050	0.0068
Cyclohexane	ND		mg/kg	0.50	0.027
Bromochloromethane	ND		mg/kg	0.10	0.010
Chloroform	ND		mg/kg	0.075	0.0070
Carbon tetrachloride	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.025	0.0084
2-Butanone	ND		mg/kg	0.50	0.11
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Methyl cyclohexane	ND		mg/kg	0.20	0.030
Trichloroethene	ND		mg/kg	0.025	0.0068
1,2-Dichloropropane	ND		mg/kg	0.050	0.0062
Bromodichloromethane	ND		mg/kg	0.025	0.0054

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/29/22 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 18 Batch: WG1621455-5					
1,4-Dioxane	ND		mg/kg	4.0	1.8
cis-1,3-Dichloropropene	ND		mg/kg	0.025	0.0079
Toluene	ND		mg/kg	0.050	0.027
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.064
Tetrachloroethene	ND		mg/kg	0.025	0.0098
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.014
1,3-Dichloropropene, Total	ND		mg/kg	0.025	0.0079
1,1,2-Trichloroethane	ND		mg/kg	0.050	0.013
Dibromochloromethane	ND		mg/kg	0.050	0.0070
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
2-Hexanone	ND		mg/kg	0.50	0.059
Chlorobenzene	ND		mg/kg	0.025	0.0064
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Styrene	ND		mg/kg	0.050	0.0098
Bromoform	ND		mg/kg	0.20	0.012
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.025	0.0083
1,3-Dichlorobenzene	ND		mg/kg	0.10	0.0074
1,4-Dichlorobenzene	ND		mg/kg	0.10	0.0086
1,2-Dichlorobenzene	ND		mg/kg	0.10	0.0072
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.050
1,2,4-Trichlorobenzene	ND		mg/kg	0.10	0.014
1,2,3-Trichlorobenzene	ND		mg/kg	0.10	0.016

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/29/22 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s):				18	Batch: WG1621455-5
Tentatively Identified Compounds					
Total TIC Compounds	0.270	J	mg/kg		
Cyclotrisiloxane, Hexamethyl-	0.148	NJ	mg/kg		
Unknown	0.122	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/22 10:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05,08 Batch: WG1621500-10					
Dichlorodifluoromethane	ND		mg/kg	0.50	0.046
Chloromethane	ND		mg/kg	0.20	0.047
Vinyl chloride	ND		mg/kg	0.050	0.017
Bromomethane	0.061	J	mg/kg	0.10	0.029
Chloroethane	ND		mg/kg	0.10	0.023
Trichlorofluoromethane	ND		mg/kg	0.20	0.035
1,1-Dichloroethene	ND		mg/kg	0.050	0.012
Carbon disulfide	ND		mg/kg	0.50	0.23
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.20	0.035
Methylene chloride	ND		mg/kg	0.25	0.11
Acetone	ND		mg/kg	0.50	0.24
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.0068
Methyl Acetate	ND		mg/kg	0.20	0.048
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
1,1-Dichloroethane	ND		mg/kg	0.050	0.0072
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.0088
1,2-Dichloroethene, Total	ND		mg/kg	0.050	0.0068
Cyclohexane	ND		mg/kg	0.50	0.027
Bromochloromethane	ND		mg/kg	0.10	0.010
Chloroform	ND		mg/kg	0.075	0.0070
Carbon tetrachloride	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.025	0.0084
2-Butanone	ND		mg/kg	0.50	0.11
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Methyl cyclohexane	ND		mg/kg	0.20	0.030
Trichloroethene	ND		mg/kg	0.025	0.0068
1,2-Dichloropropane	ND		mg/kg	0.050	0.0062
Bromodichloromethane	ND		mg/kg	0.025	0.0054

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/22 10:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05,08 Batch: WG1621500-10					
1,4-Dioxane	ND		mg/kg	4.0	1.8
cis-1,3-Dichloropropene	ND		mg/kg	0.025	0.0079
Toluene	ND		mg/kg	0.050	0.027
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.064
Tetrachloroethene	ND		mg/kg	0.025	0.0098
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.014
1,3-Dichloropropene, Total	ND		mg/kg	0.025	0.0079
1,1,2-Trichloroethane	ND		mg/kg	0.050	0.013
Dibromochloromethane	ND		mg/kg	0.050	0.0070
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
2-Hexanone	ND		mg/kg	0.50	0.059
Chlorobenzene	ND		mg/kg	0.025	0.0064
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Styrene	ND		mg/kg	0.050	0.0098
Bromoform	ND		mg/kg	0.20	0.012
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.025	0.0083
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017
1,3-Dichlorobenzene	ND		mg/kg	0.10	0.0074
1,4-Dichlorobenzene	ND		mg/kg	0.10	0.0086
1,2-Dichlorobenzene	ND		mg/kg	0.10	0.0072
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.050
1,2,4-Trichlorobenzene	ND		mg/kg	0.10	0.014
Naphthalene	ND		mg/kg	0.20	0.032
1,2,3-Trichlorobenzene	ND		mg/kg	0.10	0.016

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/22 10:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05,08 Batch: WG1621500-10					
Tentatively Identified Compounds					
Total TIC Compounds	0.130	J	mg/kg		
Unknown	0.130	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	103		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/22 08:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 16 Batch: WG1622016-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/22 08:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 16 Batch: WG1622016-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
Naphthalene	ND		mg/kg	0.0040	0.00065
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/22 08:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 16 Batch: WG1622016-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/22 08:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 14 Batch: WG1622018-5					
Dichlorodifluoromethane	ND		mg/kg	0.50	0.046
Chloromethane	ND		mg/kg	0.20	0.047
Vinyl chloride	ND		mg/kg	0.050	0.017
Bromomethane	ND		mg/kg	0.10	0.029
Chloroethane	ND		mg/kg	0.10	0.023
Trichlorofluoromethane	ND		mg/kg	0.20	0.035
1,1-Dichloroethene	ND		mg/kg	0.050	0.012
Carbon disulfide	ND		mg/kg	0.50	0.23
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.20	0.035
Methylene chloride	ND		mg/kg	0.25	0.11
Acetone	ND		mg/kg	0.50	0.24
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.0068
Methyl Acetate	ND		mg/kg	0.20	0.048
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
1,1-Dichloroethane	ND		mg/kg	0.050	0.0072
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.0088
1,2-Dichloroethene, Total	ND		mg/kg	0.050	0.0068
Cyclohexane	ND		mg/kg	0.50	0.027
Bromochloromethane	ND		mg/kg	0.10	0.010
Chloroform	ND		mg/kg	0.075	0.0070
Carbon tetrachloride	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.025	0.0084
2-Butanone	ND		mg/kg	0.50	0.11
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Methyl cyclohexane	ND		mg/kg	0.20	0.030
Trichloroethene	ND		mg/kg	0.025	0.0068
1,2-Dichloropropane	ND		mg/kg	0.050	0.0062
Bromodichloromethane	ND		mg/kg	0.025	0.0054

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/22 08:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 14 Batch: WG1622018-5					
1,4-Dioxane	ND		mg/kg	4.0	1.8
cis-1,3-Dichloropropene	ND		mg/kg	0.025	0.0079
Toluene	ND		mg/kg	0.050	0.027
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.064
Tetrachloroethene	ND		mg/kg	0.025	0.0098
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.014
1,3-Dichloropropene, Total	ND		mg/kg	0.025	0.0079
1,1,2-Trichloroethane	ND		mg/kg	0.050	0.013
Dibromochloromethane	ND		mg/kg	0.050	0.0070
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
2-Hexanone	ND		mg/kg	0.50	0.059
Chlorobenzene	ND		mg/kg	0.025	0.0064
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Styrene	ND		mg/kg	0.050	0.0098
Bromoform	ND		mg/kg	0.20	0.012
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.025	0.0083
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017
1,3-Dichlorobenzene	ND		mg/kg	0.10	0.0074
1,4-Dichlorobenzene	ND		mg/kg	0.10	0.0086
1,2-Dichlorobenzene	ND		mg/kg	0.10	0.0072
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.050
1,2,4-Trichlorobenzene	ND		mg/kg	0.10	0.014
Naphthalene	ND		mg/kg	0.20	0.032
1,2,3-Trichlorobenzene	ND		mg/kg	0.10	0.016

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/22 08:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s):				14 Batch:	WG1622018-5
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/22 10:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 16 Batch: WG1622033-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	0.0012	J	mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/22 10:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 16 Batch: WG1622033-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
Naphthalene	ND		mg/kg	0.0040	0.00065
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/22 10:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 16 Batch: WG1622033-5					
Tentatively Identified Compounds					
Total TIC Compounds	0.00261	J	mg/kg		
Unknown	0.00261	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 20-21 Batch: WG1619571-3 WG1619571-4								
1,4-Dioxane	120		130		70-130	8		25
1,1,2,2-Tetrachloroethane	95		103		70-130	8		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		105		70-130
4-Bromofluorobenzene	99		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-21 Batch: WG1619572-3 WG1619572-4								
Dichlorodifluoromethane	82		81		36-147	1		20
Chloromethane	88		88		64-130	0		20
Vinyl chloride	86		89		55-140	3		20
Bromomethane	99		100		39-139	1		20
Chloroethane	96		93		55-138	3		20
Trichlorofluoromethane	99		91		62-150	8		20
1,1-Dichloroethene	95		96		61-145	1		20
Carbon disulfide	96		95		51-130	1		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	99		96		70-130	3		20
Methylene chloride	95		95		70-130	0		20
Acetone	110		110		58-148	0		20
trans-1,2-Dichloroethene	96		96		70-130	0		20
Methyl Acetate	100		96		70-130	4		20
Methyl tert butyl ether	88		88		63-130	0		20
1,1-Dichloroethane	96		94		70-130	2		20
cis-1,2-Dichloroethene	95		95		70-130	0		20
Cyclohexane	93		95		70-130	2		20
Bromochloromethane	100		98		70-130	2		20
Chloroform	100		96		70-130	4		20
Carbon tetrachloride	95		93		63-132	2		20
1,1,1-Trichloroethane	95		92		67-130	3		20
2-Butanone	99		100		63-138	1		20
Benzene	100		99		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-21 Batch: WG1619572-3 WG1619572-4								
1,2-Dichloroethane	94		89		70-130	5		20
Methyl cyclohexane	96		96		70-130	0		20
Trichloroethene	98		95		70-130	3		20
1,2-Dichloropropane	94		93		70-130	1		20
Bromodichloromethane	94		91		67-130	3		20
cis-1,3-Dichloropropene	90		91		70-130	1		20
Toluene	100		99		70-130	1		20
Tetrachloroethene	97		96		70-130	1		20
4-Methyl-2-pentanone	86		91		59-130	6		20
trans-1,3-Dichloropropene	94		92		70-130	2		20
1,1,2-Trichloroethane	100		97		70-130	3		20
Dibromochloromethane	98		96		63-130	2		20
1,2-Dibromoethane	100		97		70-130	3		20
2-Hexanone	94		95		57-130	1		20
Chlorobenzene	99		97		75-130	2		20
Ethylbenzene	97		96		70-130	1		20
p/m-Xylene	95		90		70-130	5		20
o-Xylene	90		90		70-130	0		20
Styrene	95		90		70-130	5		20
Bromoform	91		89		54-136	2		20
Isopropylbenzene	98		99		70-130	1		20
1,3,5-Trimethylbenzene	100		99		64-130	1		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-21 Batch: WG1619572-3 WG1619572-4								
1,3-Dichlorobenzene	97		97		70-130	0		20
1,4-Dichlorobenzene	97		95		70-130	2		20
1,2-Dichlorobenzene	94		97		70-130	3		20
1,2-Dibromo-3-chloropropane	96		94		41-144	2		20
1,2,4-Trichlorobenzene	86		89		70-130	3		20
Naphthalene	81		83		70-130	2		20
1,2,3-Trichlorobenzene	92		90		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		91		70-130
Toluene-d8	105		103		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,09-13,15 Batch: WG1620536-3 WG1620536-4								
Dichlorodifluoromethane	101		82		30-146	21		30
Chloromethane	88		70		52-130	23		30
Vinyl chloride	91		72		67-130	23		30
Bromomethane	84		70		57-147	18		30
Chloroethane	80		72		50-151	11		30
Trichlorofluoromethane	102		82		70-139	22		30
1,1-Dichloroethene	102		86		65-135	17		30
Carbon disulfide	102		85		59-130	18		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	116		105		50-139	10		30
Methylene chloride	89		73		70-130	20		30
Acetone	99		79		54-140	22		30
trans-1,2-Dichloroethene	98		86		70-130	13		30
Methyl Acetate	94		76		51-146	21		30
Methyl tert butyl ether	107		84		66-130	24		30
1,1-Dichloroethane	96		82		70-130	16		30
cis-1,2-Dichloroethene	96		82		70-130	16		30
Cyclohexane	108		94		59-142	14		30
Bromochloromethane	100		85		70-130	16		30
Chloroform	96		83		70-130	15		30
Carbon tetrachloride	109		96		70-130	13		30
1,1,1-Trichloroethane	105		92		70-130	13		30
2-Butanone	93		74		70-130	23		30
Benzene	109		90		70-130	19		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,09-13,15 Batch: WG1620536-3 WG1620536-4								
1,2-Dichloroethane	95		80		70-130	17		30
Methyl cyclohexane	112		95		70-130	16		30
Trichloroethene	113		95		70-130	17		30
1,2-Dichloropropane	101		84		70-130	18		30
Bromodichloromethane	98		82		70-130	18		30
1,4-Dioxane	102		87		65-136	16		30
cis-1,3-Dichloropropene	109		90		70-130	19		30
Toluene	111		93		70-130	18		30
4-Methyl-2-pentanone	109		86		70-130	24		30
Tetrachloroethene	128		108		70-130	17		30
trans-1,3-Dichloropropene	119		95		70-130	22		30
1,1,2-Trichloroethane	110		89		70-130	21		30
Dibromochloromethane	117		97		70-130	19		30
1,2-Dibromoethane	118		96		70-130	21		30
2-Hexanone	104		84		70-130	21		30
Chlorobenzene	110		93		70-130	17		30
Ethylbenzene	111		95		70-130	16		30
p/m-Xylene	114		96		70-130	17		30
o-Xylene	111		95		70-130	16		30
Styrene	113		96		70-130	16		30
Bromoform	114		91		70-130	22		30
Isopropylbenzene	117		98		70-130	18		30
1,1,2,2-Tetrachloroethane	111		90		70-130	21		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,09-13,15 Batch: WG1620536-3 WG1620536-4								
1,3,5-Trimethylbenzene	116		97		70-130	18		30
1,2,4-Trimethylbenzene	114		95		70-130	18		30
1,3-Dichlorobenzene	112		94		70-130	17		30
1,4-Dichlorobenzene	110		92		70-130	18		30
1,2-Dichlorobenzene	110		92		70-130	18		30
1,2-Dibromo-3-chloropropane	108		90		68-130	18		30
1,2,4-Trichlorobenzene	116		96		70-130	19		30
Naphthalene	110		92		70-130	18		30
1,2,3-Trichlorobenzene	114		95		70-130	18		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		90		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	91		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
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Lab Number: L2213931
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-04,06,16-17,19 Batch: WG1620539-3 WG1620539-4								
Dichlorodifluoromethane	101		82		30-146	21		30
Chloromethane	88		70		52-130	23		30
Vinyl chloride	91		72		67-130	23		30
Bromomethane	84		70		57-147	18		30
Chloroethane	80		72		50-151	11		30
Trichlorofluoromethane	102		82		70-139	22		30
1,1-Dichloroethene	102		86		65-135	17		30
Carbon disulfide	102		85		59-130	18		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	116		105		50-139	10		30
Methylene chloride	89		73		70-130	20		30
Acetone	99		79		54-140	22		30
trans-1,2-Dichloroethene	98		86		70-130	13		30
Methyl Acetate	94		76		51-146	21		30
Methyl tert butyl ether	107		84		66-130	24		30
1,1-Dichloroethane	96		82		70-130	16		30
cis-1,2-Dichloroethene	96		82		70-130	16		30
Cyclohexane	108		94		59-142	14		30
Bromochloromethane	100		85		70-130	16		30
Chloroform	96		83		70-130	15		30
Carbon tetrachloride	109		96		70-130	13		30
1,1,1-Trichloroethane	105		92		70-130	13		30
2-Butanone	93		74		70-130	23		30
Benzene	109		90		70-130	19		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
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Lab Number: L2213931
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-04,06,16-17,19 Batch: WG1620539-3 WG1620539-4								
1,2-Dichloroethane	95		80		70-130	17		30
Methyl cyclohexane	112		95		70-130	16		30
Trichloroethene	113		95		70-130	17		30
1,2-Dichloropropane	101		84		70-130	18		30
Bromodichloromethane	98		82		70-130	18		30
1,4-Dioxane	102		87		65-136	16		30
cis-1,3-Dichloropropene	109		90		70-130	19		30
Toluene	111		93		70-130	18		30
4-Methyl-2-pentanone	109		86		70-130	24		30
Tetrachloroethene	128		108		70-130	17		30
trans-1,3-Dichloropropene	119		95		70-130	22		30
1,1,2-Trichloroethane	110		89		70-130	21		30
Dibromochloromethane	117		97		70-130	19		30
1,2-Dibromoethane	118		96		70-130	21		30
2-Hexanone	104		84		70-130	21		30
Chlorobenzene	110		93		70-130	17		30
Ethylbenzene	111		95		70-130	16		30
p/m-Xylene	114		96		70-130	17		30
o-Xylene	111		95		70-130	16		30
Styrene	113		96		70-130	16		30
Bromoform	114		91		70-130	22		30
Isopropylbenzene	117		98		70-130	18		30
1,1,2,2-Tetrachloroethane	111		90		70-130	21		30

Lab Control Sample Analysis
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Project Name: ALLIANCE 51ST STREET
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Lab Number: L2213931
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-04,06,16-17,19 Batch: WG1620539-3 WG1620539-4								
1,3,5-Trimethylbenzene	116		97		70-130	18		30
1,2,4-Trimethylbenzene	114		95		70-130	18		30
1,3-Dichlorobenzene	112		94		70-130	17		30
1,4-Dichlorobenzene	110		92		70-130	18		30
1,2-Dichlorobenzene	110		92		70-130	18		30
1,2-Dibromo-3-chloropropane	108		90		68-130	18		30
1,2,4-Trichlorobenzene	116		96		70-130	19		30
Naphthalene	110		92		70-130	18		30
1,2,3-Trichlorobenzene	114		95		70-130	18		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		90		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	91		92		70-130

Lab Control Sample Analysis
Batch Quality Control

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Lab Number: L2213931
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-05 Batch: WG1620539-8 WG1620539-9								
Dichlorodifluoromethane	97		95		30-146	2		30
Chloromethane	81		78		52-130	4		30
Vinyl chloride	82		81		67-130	1		30
Bromomethane	75		74		57-147	1		30
Chloroethane	76		72		50-151	5		30
Trichlorofluoromethane	92		94		70-139	2		30
1,1-Dichloroethene	101		95		65-135	6		30
Carbon disulfide	99		93		59-130	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	119		116		50-139	3		30
Methylene chloride	84		81		70-130	4		30
Acetone	97		94		54-140	3		30
trans-1,2-Dichloroethene	97		90		70-130	7		30
Methyl Acetate	88		89		51-146	1		30
Methyl tert butyl ether	96		102		66-130	6		30
1,1-Dichloroethane	94		89		70-130	5		30
cis-1,2-Dichloroethene	93		87		70-130	7		30
Cyclohexane	109		103		59-142	6		30
Bromochloromethane	96		92		70-130	4		30
Chloroform	92		89		70-130	3		30
Carbon tetrachloride	109		103		70-130	6		30
1,1,1-Trichloroethane	106		99		70-130	7		30
2-Butanone	87		90		70-130	3		30
Benzene	102		98		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
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Lab Number: L2213931
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-05 Batch: WG1620539-8 WG1620539-9								
1,2-Dichloroethane	90		89		70-130	1		30
Methyl cyclohexane	112		107		70-130	5		30
Trichloroethene	109		102		70-130	7		30
1,2-Dichloropropane	94		93		70-130	1		30
Bromodichloromethane	95		92		70-130	3		30
1,4-Dioxane	104		101		65-136	3		30
cis-1,3-Dichloropropene	103		100		70-130	3		30
Toluene	105		98		70-130	7		30
4-Methyl-2-pentanone	100		107		70-130	7		30
Tetrachloroethene	122		115		70-130	6		30
trans-1,3-Dichloropropene	107		107		70-130	0		30
1,1,2-Trichloroethane	100		103		70-130	3		30
Dibromochloromethane	110		111		70-130	1		30
1,2-Dibromoethane	109		111		70-130	2		30
2-Hexanone	99		105		70-130	6		30
Chlorobenzene	104		97		70-130	7		30
Ethylbenzene	105		98		70-130	7		30
p/m-Xylene	108		100		70-130	8		30
o-Xylene	106		98		70-130	8		30
Styrene	108		100		70-130	8		30
Bromoform	108		112		70-130	4		30
Isopropylbenzene	111		104		70-130	7		30
1,1,2,2-Tetrachloroethane	100		106		70-130	6		30

Lab Control Sample Analysis

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Lab Number: L2213931

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-05 Batch: WG1620539-8 WG1620539-9								
1,3,5-Trimethylbenzene	108		102		70-130	6		30
1,2,4-Trimethylbenzene	106		100		70-130	6		30
1,3-Dichlorobenzene	104		98		70-130	6		30
1,4-Dichlorobenzene	102		96		70-130	6		30
1,2-Dichlorobenzene	103		98		70-130	5		30
1,2-Dibromo-3-chloropropane	104		108		68-130	4		30
1,2,4-Trichlorobenzene	106		100		70-130	6		30
Naphthalene	104		104		70-130	0		30
1,2,3-Trichlorobenzene	105		101		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		92		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	93		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
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Lab Number: L2213931
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07 Batch: WG1621094-3 WG1621094-4								
Dichlorodifluoromethane	97		95		30-146	2		30
Chloromethane	81		78		52-130	4		30
Vinyl chloride	82		81		67-130	1		30
Bromomethane	75		74		57-147	1		30
Chloroethane	76		72		50-151	5		30
Trichlorofluoromethane	92		94		70-139	2		30
1,1-Dichloroethene	101		95		65-135	6		30
Carbon disulfide	99		93		59-130	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	119		116		50-139	3		30
Methylene chloride	84		81		70-130	4		30
Acetone	97		94		54-140	3		30
trans-1,2-Dichloroethene	97		90		70-130	7		30
Methyl Acetate	88		89		51-146	1		30
Methyl tert butyl ether	96		102		66-130	6		30
1,1-Dichloroethane	94		89		70-130	5		30
cis-1,2-Dichloroethene	93		87		70-130	7		30
Cyclohexane	109		103		59-142	6		30
Bromochloromethane	96		92		70-130	4		30
Chloroform	92		89		70-130	3		30
Carbon tetrachloride	109		103		70-130	6		30
1,1,1-Trichloroethane	106		99		70-130	7		30
2-Butanone	87		90		70-130	3		30
Benzene	102		98		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07 Batch: WG1621094-3 WG1621094-4								
1,2-Dichloroethane	90		89		70-130	1		30
Methyl cyclohexane	112		107		70-130	5		30
Trichloroethene	109		102		70-130	7		30
1,2-Dichloropropane	94		93		70-130	1		30
Bromodichloromethane	95		92		70-130	3		30
1,4-Dioxane	104		101		65-136	3		30
cis-1,3-Dichloropropene	103		100		70-130	3		30
Toluene	105		98		70-130	7		30
4-Methyl-2-pentanone	100		107		70-130	7		30
Tetrachloroethene	122		115		70-130	6		30
trans-1,3-Dichloropropene	107		107		70-130	0		30
1,1,2-Trichloroethane	100		103		70-130	3		30
Dibromochloromethane	110		111		70-130	1		30
1,2-Dibromoethane	109		111		70-130	2		30
2-Hexanone	99		105		70-130	6		30
Chlorobenzene	104		97		70-130	7		30
Ethylbenzene	105		98		70-130	7		30
p/m-Xylene	108		100		70-130	8		30
o-Xylene	106		98		70-130	8		30
Styrene	108		100		70-130	8		30
Bromoform	108		112		70-130	4		30
Isopropylbenzene	111		104		70-130	7		30
1,1,2,2-Tetrachloroethane	100		106		70-130	6		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07 Batch: WG1621094-3 WG1621094-4								
1,3,5-Trimethylbenzene	108		102		70-130	6		30
1,2,4-Trimethylbenzene	106		100		70-130	6		30
1,3-Dichlorobenzene	104		98		70-130	6		30
1,4-Dichlorobenzene	102		96		70-130	6		30
1,2-Dichlorobenzene	103		98		70-130	5		30
1,2-Dibromo-3-chloropropane	104		108		68-130	4		30
1,2,4-Trichlorobenzene	106		100		70-130	6		30
Naphthalene	104		104		70-130	0		30
1,2,3-Trichlorobenzene	105		101		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		92		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	93		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,17,19 Batch: WG1621453-3 WG1621453-4								
Dichlorodifluoromethane	128		128		30-146	0		30
Chloromethane	99		97		52-130	2		30
Vinyl chloride	95		95		67-130	0		30
Bromomethane	84		86		57-147	2		30
Chloroethane	82		87		50-151	6		30
Trichlorofluoromethane	95		104		70-139	9		30
1,1-Dichloroethene	106		114		65-135	7		30
Carbon disulfide	108		113		59-130	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	125		**140**	Q	50-139	11		30
Methylene chloride	88		95		70-130	8		30
Acetone	84		114		54-140	30		30
trans-1,2-Dichloroethene	101		114		70-130	12		30
Methyl Acetate	82		100		51-146	20		30
Methyl tert butyl ether	96		113		66-130	16		30
1,1-Dichloroethane	95		106		70-130	11		30
cis-1,2-Dichloroethene	94		108		70-130	14		30
Cyclohexane	119		127		59-142	7		30
Bromochloromethane	97		110		70-130	13		30
Chloroform	93		108		70-130	15		30
Carbon tetrachloride	126		**142**	Q	70-130	12		30
1,1,1-Trichloroethane	107		122		70-130	13		30
2-Butanone	81		98		70-130	19		30
Benzene	107		117		70-130	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,17,19 Batch: WG1621453-3 WG1621453-4								
1,2-Dichloroethane	89		105		70-130	16		30
Methyl cyclohexane	122		129		70-130	6		30
Trichloroethene	113		126		70-130	11		30
1,2-Dichloropropane	97		110		70-130	13		30
Bromodichloromethane	94		110		70-130	16		30
1,4-Dioxane	86		117		65-136	**31**	Q	30
cis-1,3-Dichloropropene	104		119		70-130	13		30
Toluene	109		117		70-130	7		30
4-Methyl-2-pentanone	95		115		70-130	19		30
Tetrachloroethene	**132**	Q	**141**	Q	70-130	7		30
trans-1,3-Dichloropropene	112		127		70-130	13		30
1,1,2-Trichloroethane	101		117		70-130	15		30
Dibromochloromethane	110		129		70-130	16		30
1,2-Dibromoethane	110		126		70-130	14		30
2-Hexanone	90		112		70-130	22		30
Chlorobenzene	108		118		70-130	9		30
Ethylbenzene	111		120		70-130	8		30
p/m-Xylene	113		122		70-130	8		30
o-Xylene	111		120		70-130	8		30
Styrene	110		123		70-130	11		30
Bromoform	111		125		70-130	12		30
Isopropylbenzene	126		126		70-130	0		30
1,1,2,2-Tetrachloroethane	106		118		70-130	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,17,19 Batch: WG1621453-3 WG1621453-4								
1,3,5-Trimethylbenzene	124		123		70-130	1		30
1,2,4-Trimethylbenzene	122		121		70-130	1		30
1,3-Dichlorobenzene	117		120		70-130	3		30
1,4-Dichlorobenzene	116		117		70-130	1		30
1,2-Dichlorobenzene	114		119		70-130	4		30
1,2-Dibromo-3-chloropropane	104		123		68-130	17		30
1,2,4-Trichlorobenzene	124		125		70-130	1		30
Naphthalene	113		124		70-130	9		30
1,2,3-Trichlorobenzene	119		124		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	85		90		70-130
Toluene-d8	103		100		70-130
4-Bromofluorobenzene	107		102		70-130
Dibromofluoromethane	91		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 18 Batch: WG1621455-3 WG1621455-4								
Dichlorodifluoromethane	128		128		30-146	0		30
Chloromethane	99		97		52-130	2		30
Vinyl chloride	95		95		67-130	0		30
Bromomethane	84		86		57-147	2		30
Chloroethane	82		87		50-151	6		30
Trichlorofluoromethane	95		104		70-139	9		30
1,1-Dichloroethene	106		114		65-135	7		30
Carbon disulfide	108		113		59-130	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	125		**140**	Q	50-139	11		30
Methylene chloride	88		95		70-130	8		30
Acetone	84		114		54-140	30		30
trans-1,2-Dichloroethene	101		114		70-130	12		30
Methyl Acetate	82		100		51-146	20		30
Methyl tert butyl ether	96		113		66-130	16		30
1,1-Dichloroethane	95		106		70-130	11		30
cis-1,2-Dichloroethene	94		108		70-130	14		30
Cyclohexane	119		127		59-142	7		30
Bromochloromethane	97		110		70-130	13		30
Chloroform	93		108		70-130	15		30
Carbon tetrachloride	126		**142**	Q	70-130	12		30
1,1,1-Trichloroethane	107		122		70-130	13		30
2-Butanone	81		98		70-130	19		30
Benzene	107		117		70-130	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 18 Batch: WG1621455-3 WG1621455-4								
1,2-Dichloroethane	89		105		70-130	16		30
Methyl cyclohexane	122		129		70-130	6		30
Trichloroethene	113		126		70-130	11		30
1,2-Dichloropropane	97		110		70-130	13		30
Bromodichloromethane	94		110		70-130	16		30
1,4-Dioxane	86		117		65-136	**31**	Q	30
cis-1,3-Dichloropropene	104		119		70-130	13		30
Toluene	109		117		70-130	7		30
4-Methyl-2-pentanone	95		115		70-130	19		30
Tetrachloroethene	**132**	Q	**141**	Q	70-130	7		30
trans-1,3-Dichloropropene	112		127		70-130	13		30
1,1,2-Trichloroethane	101		117		70-130	15		30
Dibromochloromethane	110		129		70-130	16		30
1,2-Dibromoethane	110		126		70-130	14		30
2-Hexanone	90		112		70-130	22		30
Chlorobenzene	108		118		70-130	9		30
Ethylbenzene	111		120		70-130	8		30
p/m-Xylene	113		122		70-130	8		30
o-Xylene	111		120		70-130	8		30
Styrene	110		123		70-130	11		30
Bromoform	111		125		70-130	12		30
Isopropylbenzene	126		126		70-130	0		30
1,1,2,2-Tetrachloroethane	106		118		70-130	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 18 Batch: WG1621455-3 WG1621455-4								
1,3,5-Trimethylbenzene	124		123		70-130	1		30
1,2,4-Trimethylbenzene	122		121		70-130	1		30
1,3-Dichlorobenzene	117		120		70-130	3		30
1,4-Dichlorobenzene	116		117		70-130	1		30
1,2-Dichlorobenzene	114		119		70-130	4		30
1,2-Dibromo-3-chloropropane	104		123		68-130	17		30
1,2,4-Trichlorobenzene	124		125		70-130	1		30
Naphthalene	113		124		70-130	9		30
1,2,3-Trichlorobenzene	119		124		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	85		90		70-130
Toluene-d8	103		100		70-130
4-Bromofluorobenzene	107		102		70-130
Dibromofluoromethane	91		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05,08 Batch: WG1621500-8 WG1621500-9								
Dichlorodifluoromethane	58		59		30-146	2		30
Chloromethane	80		83		52-130	4		30
Vinyl chloride	83		86		67-130	4		30
Bromomethane	99		103		57-147	4		30
Chloroethane	88		91		50-151	3		30
Trichlorofluoromethane	91		94		70-139	3		30
1,1-Dichloroethene	79		84		65-135	6		30
Carbon disulfide	66		68		59-130	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		97		50-139	3		30
Methylene chloride	79		83		70-130	5		30
Acetone	88		95		54-140	8		30
trans-1,2-Dichloroethene	81		87		70-130	7		30
Methyl Acetate	94		101		51-146	7		30
Methyl tert butyl ether	84		88		66-130	5		30
1,1-Dichloroethane	93		97		70-130	4		30
cis-1,2-Dichloroethene	81		85		70-130	5		30
Cyclohexane	109		114		59-142	4		30
Bromochloromethane	86		90		70-130	5		30
Chloroform	81		85		70-130	5		30
Carbon tetrachloride	92		97		70-130	5		30
1,1,1-Trichloroethane	84		88		70-130	5		30
2-Butanone	94		103		70-130	9		30
Benzene	82		85		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05,08 Batch: WG1621500-8 WG1621500-9								
1,2-Dichloroethane	96		102		70-130	6		30
Methyl cyclohexane	86		90		70-130	5		30
Trichloroethene	83		88		70-130	6		30
1,2-Dichloropropane	98		104		70-130	6		30
Bromodichloromethane	81		86		70-130	6		30
1,4-Dioxane	94		102		65-136	8		30
cis-1,3-Dichloropropene	88		93		70-130	6		30
Toluene	81		85		70-130	5		30
4-Methyl-2-pentanone	107		115		70-130	7		30
Tetrachloroethene	88		90		70-130	2		30
trans-1,3-Dichloropropene	85		90		70-130	6		30
1,1,2-Trichloroethane	78		81		70-130	4		30
Dibromochloromethane	86		91		70-130	6		30
1,2-Dibromoethane	90		94		70-130	4		30
2-Hexanone	92		98		70-130	6		30
Chlorobenzene	86		89		70-130	3		30
Ethylbenzene	83		86		70-130	4		30
p/m-Xylene	88		92		70-130	4		30
o-Xylene	87		90		70-130	3		30
Styrene	84		88		70-130	5		30
Bromoform	80		83		70-130	4		30
Isopropylbenzene	93		97		70-130	4		30
1,1,2,2-Tetrachloroethane	81		86		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05,08 Batch: WG1621500-8 WG1621500-9								
1,3,5-Trimethylbenzene	91		94		70-130	3		30
1,2,4-Trimethylbenzene	92		95		70-130	3		30
1,3-Dichlorobenzene	91		94		70-130	3		30
1,4-Dichlorobenzene	89		94		70-130	5		30
1,2-Dichlorobenzene	89		93		70-130	4		30
1,2-Dibromo-3-chloropropane	81		88		68-130	8		30
1,2,4-Trichlorobenzene	87		93		70-130	7		30
Naphthalene	84		92		70-130	9		30
1,2,3-Trichlorobenzene	82		88		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	98		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 16 Batch: WG1622016-3 WG1622016-4								
Dichlorodifluoromethane	94		90		30-146	4		30
Chloromethane	125		120		52-130	4		30
Vinyl chloride	116		111		67-130	4		30
Bromomethane	117		112		57-147	4		30
Chloroethane	112		108		50-151	4		30
Trichlorofluoromethane	110		106		70-139	4		30
1,1-Dichloroethene	107		104		65-135	3		30
Carbon disulfide	106		102		59-130	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		107		50-139	3		30
Methylene chloride	98		95		70-130	3		30
Acetone	114		113		54-140	1		30
trans-1,2-Dichloroethene	108		104		70-130	4		30
Methyl Acetate	117		116		51-146	1		30
Methyl tert butyl ether	107		105		66-130	2		30
1,1-Dichloroethane	114		111		70-130	3		30
cis-1,2-Dichloroethene	104		101		70-130	3		30
Cyclohexane	124		122		59-142	2		30
Bromochloromethane	99		98		70-130	1		30
Chloroform	106		104		70-130	2		30
Carbon tetrachloride	109		106		70-130	3		30
1,1,1-Trichloroethane	114		109		70-130	4		30
2-Butanone	115		114		70-130	1		30
Benzene	111		108		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 16 Batch: WG1622016-3 WG1622016-4								
1,2-Dichloroethane	109		107		70-130	2		30
Methyl cyclohexane	112		110		70-130	2		30
Trichloroethene	110		107		70-130	3		30
1,2-Dichloropropane	113		110		70-130	3		30
Bromodichloromethane	110		106		70-130	4		30
1,4-Dioxane	94		97		65-136	3		30
cis-1,3-Dichloropropene	112		109		70-130	3		30
Toluene	112		108		70-130	4		30
4-Methyl-2-pentanone	112		111		70-130	1		30
Tetrachloroethene	111		108		70-130	3		30
trans-1,3-Dichloropropene	115		113		70-130	2		30
1,1,2-Trichloroethane	108		106		70-130	2		30
Dibromochloromethane	110		107		70-130	3		30
1,2-Dibromoethane	109		107		70-130	2		30
2-Hexanone	120		120		70-130	0		30
Chlorobenzene	112		109		70-130	3		30
Ethylbenzene	114		112		70-130	2		30
p/m-Xylene	115		112		70-130	3		30
o-Xylene	114		113		70-130	1		30
Styrene	115		112		70-130	3		30
Bromoform	102		100		70-130	2		30
Isopropylbenzene	118		115		70-130	3		30
1,1,2,2-Tetrachloroethane	112		110		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 16 Batch: WG1622016-3 WG1622016-4								
1,3,5-Trimethylbenzene	117		113		70-130	3		30
1,2,4-Trimethylbenzene	116		113		70-130	3		30
1,3-Dichlorobenzene	112		110		70-130	2		30
1,4-Dichlorobenzene	112		108		70-130	4		30
1,2-Dichlorobenzene	109		108		70-130	1		30
1,2-Dibromo-3-chloropropane	97		98		68-130	1		30
1,2,4-Trichlorobenzene	110		109		70-130	1		30
Naphthalene	106		106		70-130	0		30
1,2,3-Trichlorobenzene	106		106		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	93		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 14 Batch: WG1622018-3 WG1622018-4								
Dichlorodifluoromethane	94		90		30-146	4		30
Chloromethane	125		120		52-130	4		30
Vinyl chloride	116		111		67-130	4		30
Bromomethane	117		112		57-147	4		30
Chloroethane	112		108		50-151	4		30
Trichlorofluoromethane	110		106		70-139	4		30
1,1-Dichloroethene	107		104		65-135	3		30
Carbon disulfide	106		102		59-130	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		107		50-139	3		30
Methylene chloride	98		95		70-130	3		30
Acetone	114		113		54-140	1		30
trans-1,2-Dichloroethene	108		104		70-130	4		30
Methyl Acetate	117		116		51-146	1		30
Methyl tert butyl ether	107		105		66-130	2		30
1,1-Dichloroethane	114		111		70-130	3		30
cis-1,2-Dichloroethene	104		101		70-130	3		30
Cyclohexane	124		122		59-142	2		30
Bromochloromethane	99		98		70-130	1		30
Chloroform	106		104		70-130	2		30
Carbon tetrachloride	109		106		70-130	3		30
1,1,1-Trichloroethane	114		109		70-130	4		30
2-Butanone	115		114		70-130	1		30
Benzene	111		108		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 14 Batch: WG1622018-3 WG1622018-4								
1,2-Dichloroethane	109		107		70-130	2		30
Methyl cyclohexane	112		110		70-130	2		30
Trichloroethene	110		107		70-130	3		30
1,2-Dichloropropane	113		110		70-130	3		30
Bromodichloromethane	110		106		70-130	4		30
1,4-Dioxane	94		97		65-136	3		30
cis-1,3-Dichloropropene	112		109		70-130	3		30
Toluene	112		108		70-130	4		30
4-Methyl-2-pentanone	112		111		70-130	1		30
Tetrachloroethene	111		108		70-130	3		30
trans-1,3-Dichloropropene	115		113		70-130	2		30
1,1,2-Trichloroethane	108		106		70-130	2		30
Dibromochloromethane	110		107		70-130	3		30
1,2-Dibromoethane	109		107		70-130	2		30
2-Hexanone	120		120		70-130	0		30
Chlorobenzene	112		109		70-130	3		30
Ethylbenzene	114		112		70-130	2		30
p/m-Xylene	115		112		70-130	3		30
o-Xylene	114		113		70-130	1		30
Styrene	115		112		70-130	3		30
Bromoform	102		100		70-130	2		30
Isopropylbenzene	118		115		70-130	3		30
1,1,2,2-Tetrachloroethane	112		110		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 14 Batch: WG1622018-3 WG1622018-4								
1,3,5-Trimethylbenzene	117		113		70-130	3		30
1,2,4-Trimethylbenzene	116		113		70-130	3		30
1,3-Dichlorobenzene	112		110		70-130	2		30
1,4-Dichlorobenzene	112		108		70-130	4		30
1,2-Dichlorobenzene	109		108		70-130	1		30
1,2-Dibromo-3-chloropropane	97		98		68-130	1		30
1,2,4-Trichlorobenzene	110		109		70-130	1		30
Naphthalene	106		106		70-130	0		30
1,2,3-Trichlorobenzene	106		106		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	93		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 16 Batch: WG1622033-3 WG1622033-4								
Dichlorodifluoromethane	58		59		30-146	2		30
Chloromethane	80		83		52-130	4		30
Vinyl chloride	83		86		67-130	4		30
Bromomethane	99		103		57-147	4		30
Chloroethane	88		91		50-151	3		30
Trichlorofluoromethane	91		94		70-139	3		30
1,1-Dichloroethene	79		84		65-135	6		30
Carbon disulfide	66		68		59-130	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		97		50-139	3		30
Methylene chloride	79		83		70-130	5		30
Acetone	88		95		54-140	8		30
trans-1,2-Dichloroethene	81		87		70-130	7		30
Methyl Acetate	94		101		51-146	7		30
Methyl tert butyl ether	84		88		66-130	5		30
1,1-Dichloroethane	93		97		70-130	4		30
cis-1,2-Dichloroethene	81		85		70-130	5		30
Cyclohexane	109		114		59-142	4		30
Bromochloromethane	86		90		70-130	5		30
Chloroform	81		85		70-130	5		30
Carbon tetrachloride	92		97		70-130	5		30
1,1,1-Trichloroethane	84		88		70-130	5		30
2-Butanone	94		103		70-130	9		30
Benzene	82		85		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 16 Batch: WG1622033-3 WG1622033-4								
1,2-Dichloroethane	96		102		70-130	6		30
Methyl cyclohexane	86		90		70-130	5		30
Trichloroethene	83		88		70-130	6		30
1,2-Dichloropropane	98		104		70-130	6		30
Bromodichloromethane	81		86		70-130	6		30
1,4-Dioxane	94		102		65-136	8		30
cis-1,3-Dichloropropene	88		93		70-130	6		30
Toluene	81		85		70-130	5		30
4-Methyl-2-pentanone	107		115		70-130	7		30
Tetrachloroethene	88		90		70-130	2		30
trans-1,3-Dichloropropene	85		90		70-130	6		30
1,1,2-Trichloroethane	78		81		70-130	4		30
Dibromochloromethane	86		91		70-130	6		30
1,2-Dibromoethane	90		94		70-130	4		30
2-Hexanone	92		98		70-130	6		30
Chlorobenzene	86		89		70-130	3		30
Ethylbenzene	83		86		70-130	4		30
p/m-Xylene	88		92		70-130	4		30
o-Xylene	87		90		70-130	3		30
Styrene	84		88		70-130	5		30
Bromoform	80		83		70-130	4		30
Isopropylbenzene	93		97		70-130	4		30
1,1,2,2-Tetrachloroethane	81		86		70-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 16 Batch: WG1622033-3 WG1622033-4								
1,3,5-Trimethylbenzene	91		94		70-130	3		30
1,2,4-Trimethylbenzene	92		95		70-130	3		30
1,3-Dichlorobenzene	91		94		70-130	3		30
1,4-Dichlorobenzene	89		94		70-130	5		30
1,2-Dichlorobenzene	89		93		70-130	4		30
1,2-Dibromo-3-chloropropane	81		88		68-130	8		30
1,2,4-Trichlorobenzene	87		93		70-130	7		30
Naphthalene	84		92		70-130	9		30
1,2,3-Trichlorobenzene	82		88		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	97		99		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-01
Client ID: MW-8 (5.5-6)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/16/22 12:10
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-02
Client ID: SB-201 (8.5-9)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/16/22 14:05
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.4		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-03
Client ID: SB-202 (8.5-9)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/16/22 14:20
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.9		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-04
Client ID: SB-203 (8.5-9)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 03/16/22 14:30
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	59.5		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-05
Client ID: SB-204 (8.5-9)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/16/22 14:35
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.7		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-06
Client ID: SB-205 (3.5-4)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/16/22 14:45
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-07
Client ID: SB-206 (2.5-3)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 08:35
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	57.9		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08
Client ID: SB-207 (4-4.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/22 08:50
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.4		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-09
Client ID: SB-208 (4-4.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/22 09:00
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-10
Client ID: SB-209 (3.5-4)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 09:25
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	58.0		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-11
Client ID: SB-210 (4-4.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 09:35
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-12
Client ID: SB-211 (3.5-4)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 09:40
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.7		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-13
Client ID: SB-212 (4.5-5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 10:00
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.8		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-14
Client ID: SB-213 (4-4.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/22 10:10
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.5		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-15
Client ID: SB-214 (4-4.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/22 10:20
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16
Client ID: SB-215 (4.5-5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/22 10:30
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.1		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17
Client ID: SB-216 (3.5-4)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 10:40
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.3		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-18
Client ID: SB-217 (8.5-9)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 11:25
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.0		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19
Client ID: DUP-1
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/22 00:00
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.1		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-19 QC Batch ID: WG1617107-1 QC Sample: L2213931-01 Client ID: MW-8 (5.5-6)						
Solids, Total	92.0	92.9	%	1		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213931-01A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-01B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-01C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-01D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-01X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-01Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-01Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-02A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-02B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-02C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-02D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-02X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-02Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-02Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-03A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-03B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-03C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-03D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-03X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-03Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-03Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-04A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-04B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213931-04C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-04D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-04X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-04Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-04Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-05A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-05B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-05C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-05D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-05X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-05Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-05Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-06A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-06B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-06C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-06D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-06X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-06Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-06Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-07A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-07B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-07C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-07D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-07X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-07Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-07Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-08A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-08B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213931-08C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-08D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-08X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-08Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-08Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-09A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-09B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-09C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-09D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-09X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-09Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-09Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-10A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-10B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-10C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-10D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-10X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-10Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-10Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-11A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-11B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-11C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-11D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-11X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-11Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-11Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-12A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-12B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213931-12C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-12D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-12X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-12Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-12Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-13A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-13B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-13C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-13D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-13X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-13Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-13Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-14A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-14B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-14C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-14D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-14X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-14Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-14Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-15A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-15B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-15C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-15D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-15X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-15Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-15Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-16A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-16B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213931-16C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-16D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-16X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-16Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-16Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-17A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-17B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-17C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-17D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-17X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-17Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-17Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-18A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-18B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-18C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-18D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-18X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-18Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-18Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-19A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-19B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-19C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-19D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-19X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-19Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-19Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-20A	Vial HCl preserved	A	NA		3.8	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2213931-20B	Vial HCl preserved	A	NA		3.8	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213931-20C	Vial HCl preserved	A	NA		3.8	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2213931-21A	Vial HCl preserved	A	NA		3.8	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2213931-21B	Vial HCl preserved	A	NA		3.8	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Project Number:	30108678.03C	**Report Date:**	04/12/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 03/18/22

ALPHA Job #: L2213931

Client Information
Client: Arcadis
Address: 1 Harmon Cove Blvd Ste 1
Millstone Twp NJ 08510
Phone: 908-526-1600
Fax:
Email: Larry.Brunt@arcadis.com

Project Information
Project Name: Allaire 91st Street
Project Location: Philly, PA
Project #: 30108678.03C
(Use Project name as Project #)
Project Manager: Larry Brunt
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved):
Due Date:
# of Days:

Deliverables
- NJ Full / Reduced
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Billing Information
- Same as Client Info
PO #

Regulatory Requirement
- SRS Residential/Non Residential
- SRS Impact to Groundwater
- NJ Ground Water Quality Standards
- NJ IGW SPLP Leachate Criteria
- Other

Site Information
Is this site impacted by Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
- Category 1
- Category 2

For VOC, selection is REQUIRED:
- 1,4-Dioxane
- 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC +10	Total Bottle
13931-01	MW-8 (5.5-6)	3/16/22	1210	Soil	MH	X	4
-02	SB-201 (6.5-9)		1405			X	
-03	SB-202 (6.5-9)		1430			X	
-04	SB-203 (6.5-9)		1430			X	
-05	SB-204 (6.5-9)		1435			X	
-06	SB-205 (3.5-4)		1445			X	
-07	SB-206 (2.5-3)	3/17/22	835			X	
-08	SB-207 (4-4.5)		850			X	
-09	SB-208 (4-4.5)		900			X	
-10	SB-209 (3.5-4)		925			X	

Container Type: TT
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hillis	3/17/22 1230		3/17/22 1238
	3/17/22 1710		3/17/22 1720
	3/17/22 2030		3/17/22 2030
	3/18/22		3/18/22 0035
	3/18/22 0800		3/18/22 0350

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 2 of 3

Date Rec'd in Lab: 03/18/20

ALPHA Job #: L2213931

Client Information
Client: ARCADIS
Address: 1 Harvard Way Fl 1
Hillsborough NJ
Phone: 908-926-1000
Fax:
Email: Larry.brightarcadis.com

Project Information
Project Name: Alliance Pipeline
Project Location: Philip, PA
Project # 30108678.C3C
(Use Project name as Project #) ☐
Project Manager: Larry Bright
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS
VOC +10
VOC +10

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC +10	VOC +10	Total Bottle
13931 -11	SB-21C (4-4.5)	3/17/22	935	Soil	MH	X		4
-12	SB-211 (3.5-4)		940			X		
-13	SB-212 (4.5-5)		1000			X		
-14	SB-213 (4-4.5)		1010			X		
-15	SB-214 (4-4.5)		1020			X		
-16	SB-215 (4.5-5)		1025			X		
-17	SB-216 (3.5-4)		1040			X		
-18	SB-217 (8.5-9)		1125			X		
-19	DUP-1		X			X		
-20	Field Blank		1135	AQ			X	3

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	E	AV
Preservative	A	B

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilliard	3/17/22 1234		3/17/22 1234
	3/17/22 1710		3-17 1720
	3/17/22 2030		3/17/22 2030
	3/18/22		3/18/22 0085
	3/18/22 0300		3/18/22 0300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTITUTIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3 of 3

Date Rec'd in Lab: 03/18/22

ALPHA Job #: L2213931

Client Information
Client: Arcadis
Address: 1 Hartford Way ste 11
Hillsborough, NJ
Phone: 908-526-1200
Fax:
Email: Larry.Brink@arcadis.com

Project Information
Project Name: Allright 51st street
Project Location: Phila, PA
Project #: 30108678.03C
(Use Project name as Project #) ☐
Project Manager: Larry Brink
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS
VOC

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	Sample Specific Comments	Total Bottle
13931 -21	Trip Blank			AQ	LAB	V		2

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type: HV
Preservative: R

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Whitesell	3/17/22 1237	ALPHAL	3/17/22 1236
ALPHAL	3/17/22 1720	CAM	3-17 2020
CAM	3-17-2034	ALPHAL	3/17/22 2035
ALPHAL	3/18/22	CAM	3/18/22 0030
CAM	3/18/22 0300	ALPHAL	3/18/22 0300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

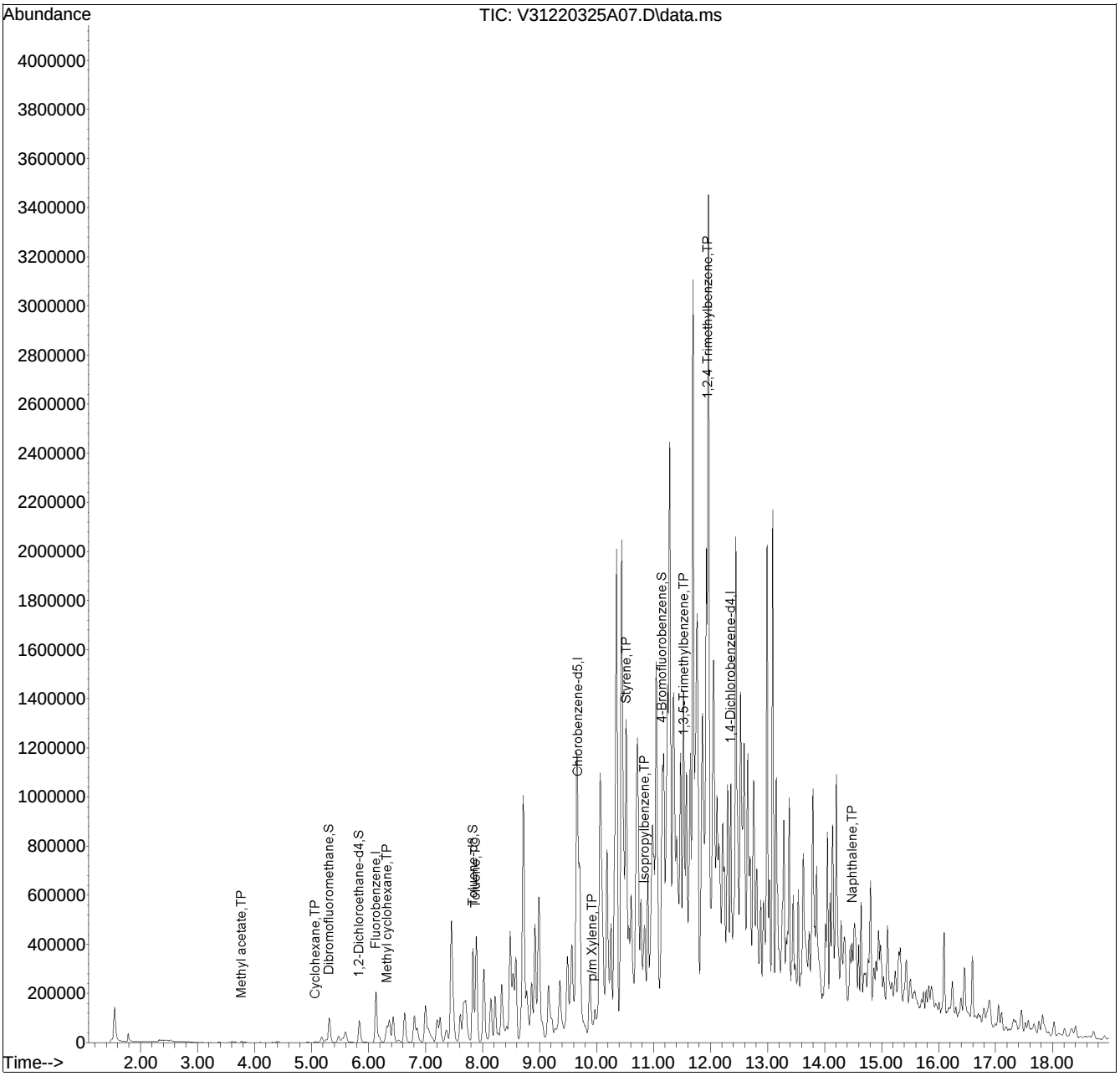
Form No: 01-14 HC (rev. 30-Sept-2013)

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220325A\
Data File : V31220325A07.D
Acq On : 25 Mar 2022 09:42 am
Operator : VOA131:KJD
Sample : L2213931-02D,31H,4.23,5,0.020,,X
Misc : WG1620539,ICAL18820
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 07 15:43:20 2022
Quant Method : I:\VOLATILES\VOA131\2022\220325A\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB

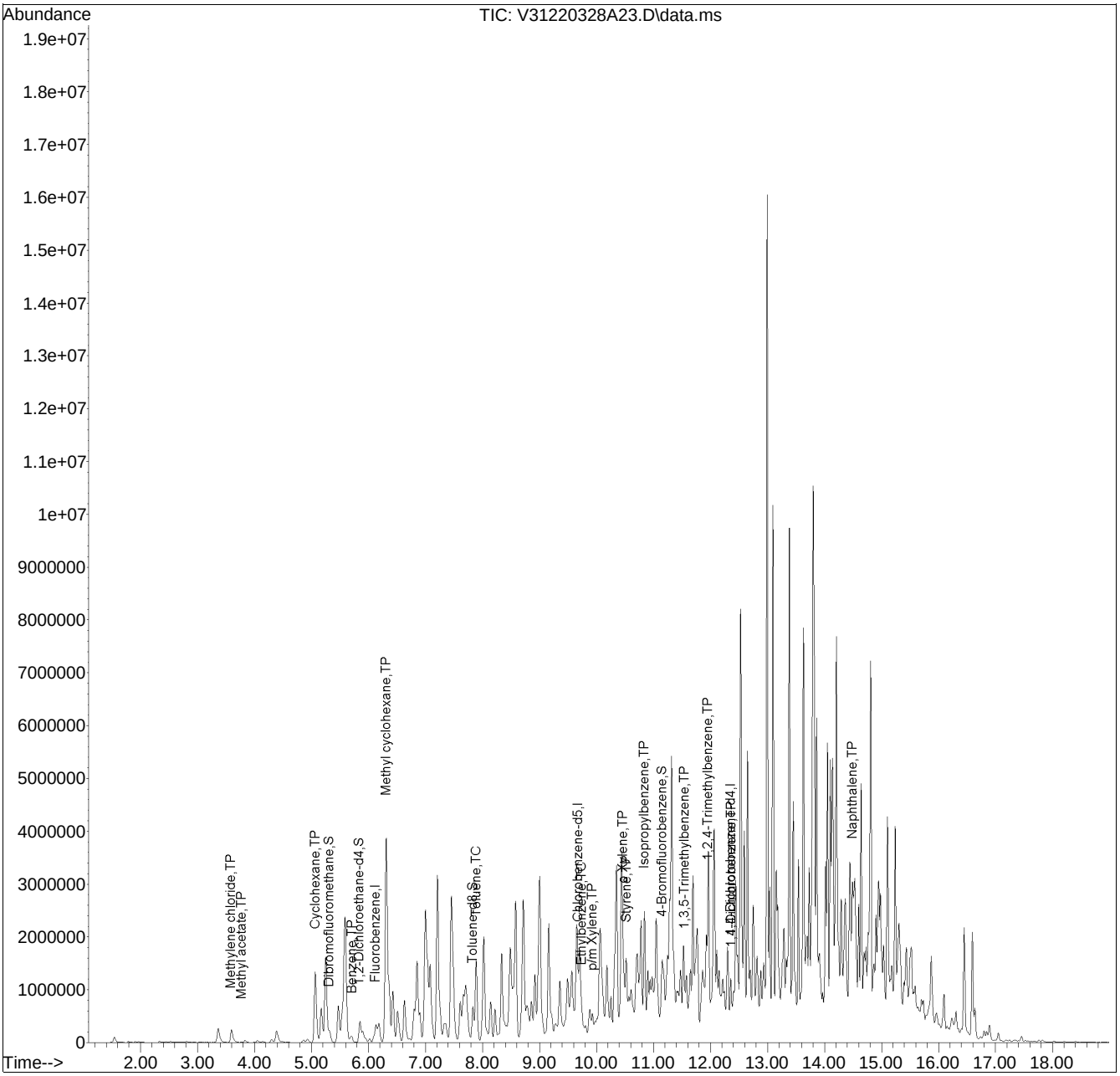


Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220328A\
Data File : V31220328A23.D
Acq On : 28 Mar 2022 05:16 pm
Operator : VOA131:KJD
Sample : l2213931-04,31H,3.40,5,0.100,,x
Misc : WG1620539,ICAL18820
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 29 11:15:30 2022
Quant Method : I:\VOLATILES\VOA131\2022\220328A\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB

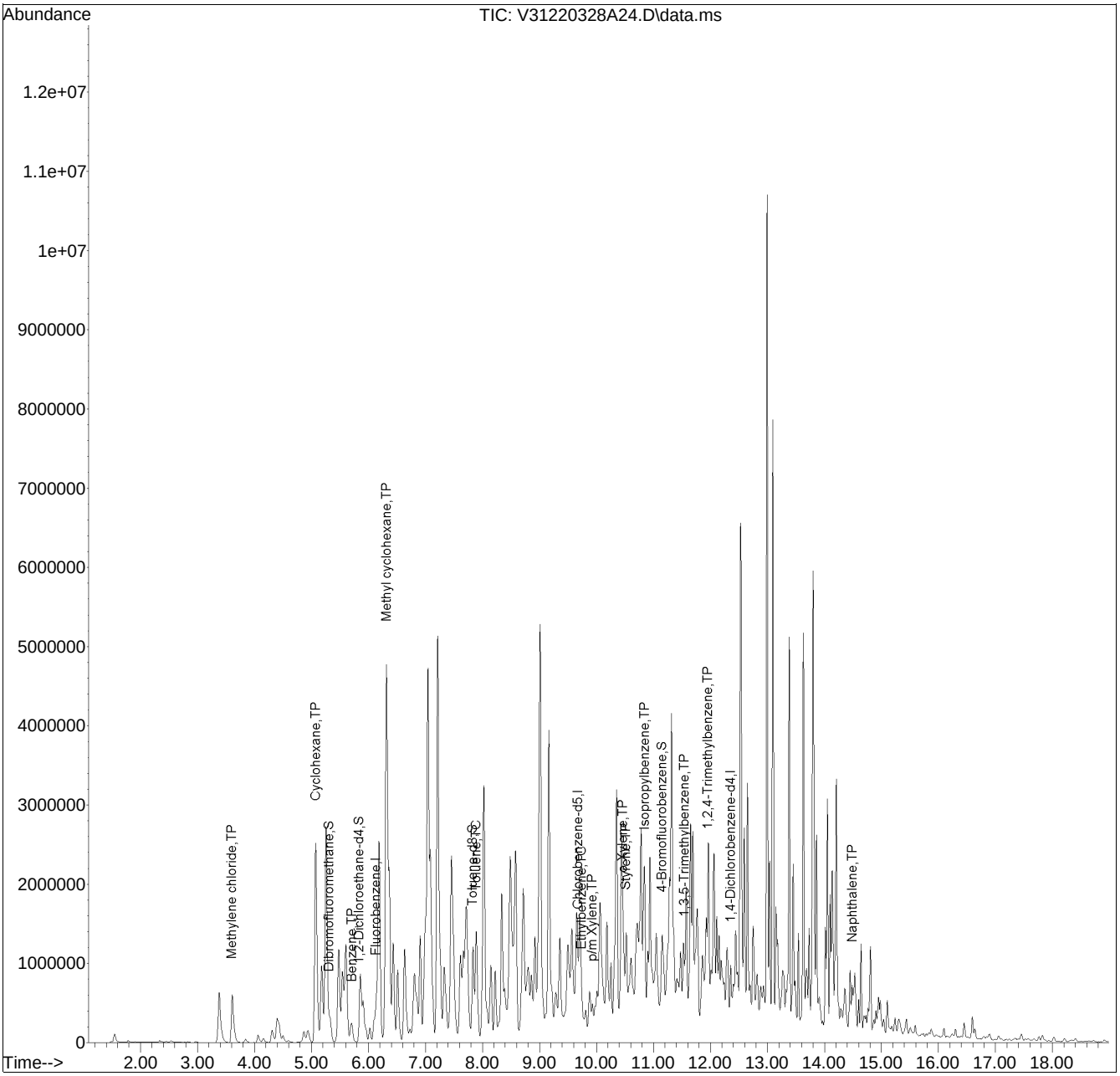


Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220328A\
Data File : V31220328A24.D
Acq On : 28 Mar 2022 05:39 pm
Operator : VOA131:KJD
Sample : l2213931-05D,31H,4.70,5,0.020,,x
Misc : WG1620539,ICAL18820
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 29 11:16:28 2022
Quant Method : I:\VOLATILES\VOA131\2022\220328A\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB

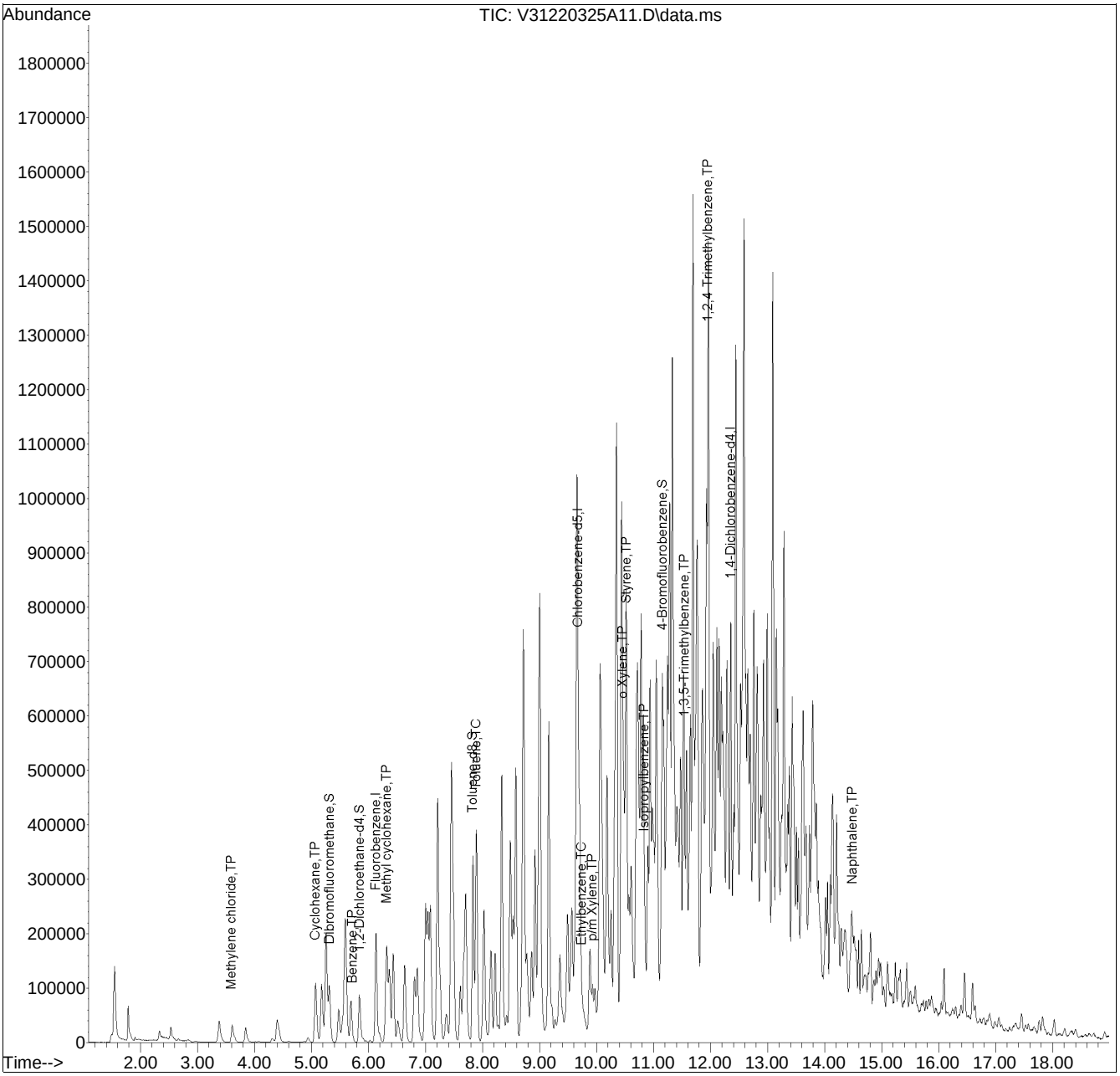


Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220325A\
Data File : V31220325A11.D
Acq On : 25 Mar 2022 11:16 am
Operator : VOA131:KJD
Sample : L2213931-06D,31H,5.07,5,0.020,,X
Misc : WG1620539,ICAL18820
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 28 09:07:58 2022
Quant Method : I:\VOLATILES\VOA131\2022\220325A\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB

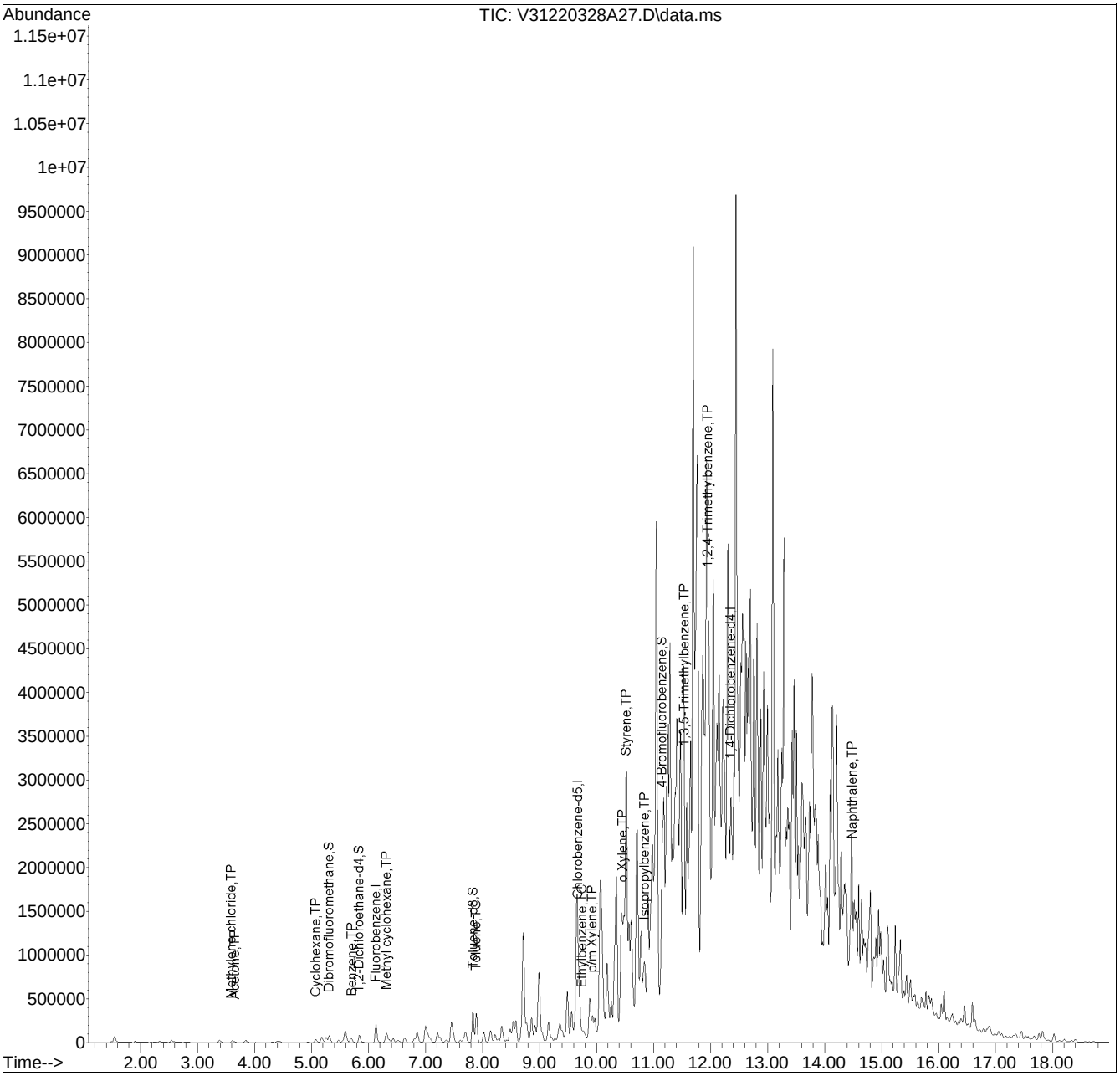


Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220328A\
Data File : V31220328A27.D
Acq On : 28 Mar 2022 06:48 pm
Operator : VOA131:KJD
Sample : l2213931-07,31,4.23,5,,z
Misc : WG1621094,ICAL18820
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 29 11:18:27 2022
Quant Method : I:\VOLATILES\VOA131\2022\220328A\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB

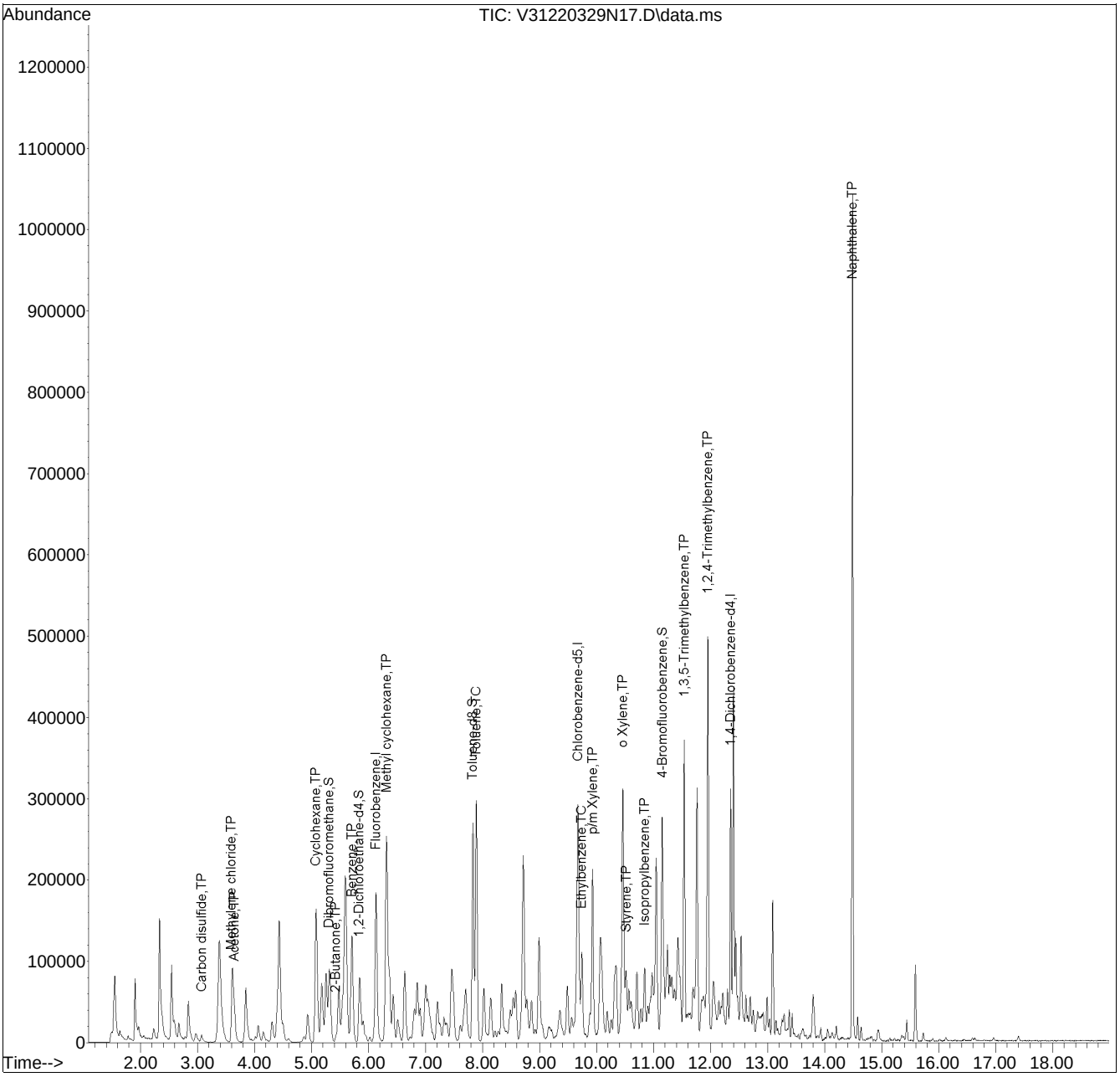


Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220329N\
Data File : V31220329N17.D
Acq On : 29 Mar 2022 09:16 pm
Operator : VOA131:KJD
Sample : l2213931-08,31,4.72,5,,y
Misc : WG1621453,ICAL18820
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 30 07:46:50 2022
Quant Method : I:\VOLATILES\VOA131\2022\220329N\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB

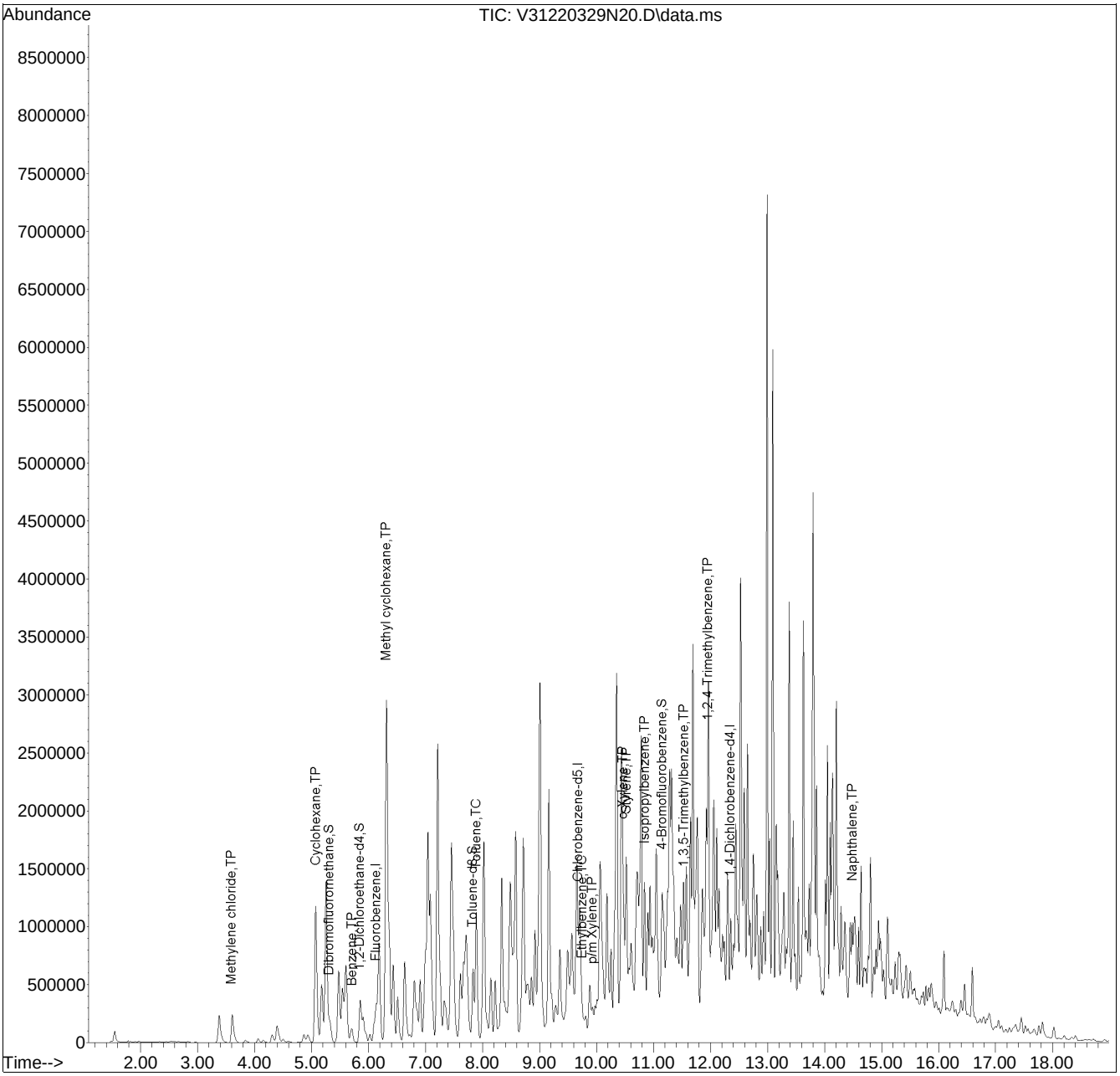


Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220329N\
Data File : V31220329N20.D
Acq On : 29 Mar 2022 10:25 pm
Operator : VOA131:KJD
Sample : l2213931-18D,31H,4.62,5,0.020,,x
Misc : WG1621455,ICAL18820
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 30 07:49:34 2022
Quant Method : I:\VOLATILES\VOA131\2022\220329N\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB



ANALYTICAL REPORT

Lab Number:	L2216990
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST ST
Project Number:	30108678.03B
Report Date:	04/22/22

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2216990
Report Date: 04/22/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2216990-01	MW-1	WATER	PHILA, PA	04/01/22 12:55	04/01/22
L2216990-02	MW-2	WATER	PHILA, PA	04/01/22 14:35	04/01/22
L2216990-03	MW-3	WATER	PHILA, PA	04/01/22 13:00	04/01/22
L2216990-04	MW-4	WATER	PHILA, PA	04/01/22 11:35	04/01/22
L2216990-05	MW-5	WATER	PHILA, PA	04/01/22 10:30	04/01/22
L2216990-06	MW-7	WATER	PHILA, PA	04/01/22 14:00	04/01/22
L2216990-07	MW-8	WATER	PHILA, PA	04/01/22 11:40	04/01/22
L2216990-08	MW-9	WATER	PHILA, PA	04/01/22 10:30	04/01/22
L2216990-09	DUP-1	WATER	PHILA, PA	04/01/22 00:00	04/01/22
L2216990-10	FIELD BLANK	WATER	PHILA, PA	04/01/22 14:30	04/01/22
L2216990-11	TRIP BLANK	WATER	PHILA, PA	04/01/22 00:00	04/01/22

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2216990
Project Number:	30108678.03B	**Report Date:**	04/22/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2216990
Project Number:	30108678.03B	**Report Date:**	04/22/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2216990-04 and -08: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

L2216990-08: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (37%), possibly due to the matrix effect caused by the high pH of the sample (>10).

Volatile Organics by SIM

L2216990-04 and -08: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 04/22/22

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-01
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 04/01/22 12:55
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/13/22 15:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	9.5	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.98		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-01
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 04/01/22 12:55
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.78		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	1.9		ug/l	1.0	0.33	1
o-Xylene	0.65	J	ug/l	1.0	0.39	1
Xylenes, Total	2.6	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	2.2		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	82		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-01
Client ID: MW-1
Sample Location: PHILA, PA

Date Collected: 04/01/22 12:55
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/13/22 15:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
4-Bromofluorobenzene	107		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-02
Client ID: MW-2
Sample Location: PHILA, PA

Date Collected: 04/01/22 14:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 12:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	0.36	J	ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	4.6	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	2.4		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	3.6	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	3.3		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	2.7	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-02
Client ID: MW-2
Sample Location: PHILA, PA
Date Collected: 04/01/22 14:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.6		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.37	J	ug/l	0.50	0.17	1
p/m-Xylene	1.9		ug/l	1.0	0.33	1
o-Xylene	4.1		ug/l	1.0	0.39	1
Xylenes, Total	6.0		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.38	J	ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	4.0		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	3.3		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	6.6		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-02
Client ID: MW-2
Sample Location: PHILA, PA

Date Collected: 04/01/22 14:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 12:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
4-Bromofluorobenzene	100		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-03
Client ID: MW-3
Sample Location: PHILA, PA

Date Collected: 04/01/22 13:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 12:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	5.7		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 04/01/22 13:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-03
Client ID: MW-3
Sample Location: PHILA, PA

Date Collected: 04/01/22 13:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 12:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
4-Bromofluorobenzene	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-04
Client ID: MW-4
Sample Location: PHILA, PA

Date Collected: 04/01/22 11:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 13:04
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	12		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 04/01/22 11:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	110		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-04
Client ID: MW-4
Sample Location: PHILA, PA

Date Collected: 04/01/22 11:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 13:04
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
4-Bromofluorobenzene	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-05
Client ID: MW-5
Sample Location: PHILA, PA

Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 13:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-05
Client ID: MW-5
Sample Location: PHILA, PA

Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 13:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
4-Bromofluorobenzene	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-06
Client ID: MW-7
Sample Location: PHILA, PA

Date Collected: 04/01/22 14:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 13:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	0.64	J	ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.83	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	7.7	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	53		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.66		ug/l	0.50	0.13	1
Methyl cyclohexane	8.2	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-06
Client ID: MW-7
Sample Location: PHILA, PA
Date Collected: 04/01/22 14:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	7.0		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	7.0		ug/l	0.50	0.17	1
p/m-Xylene	8.5		ug/l	1.0	0.33	1
o-Xylene	3.8		ug/l	1.0	0.39	1
Xylenes, Total	12		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	2.3		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	13		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	33		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	7.5		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-06
Client ID: MW-7
Sample Location: PHILA, PA
Date Collected: 04/01/22 14:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 13:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
4-Bromofluorobenzene	111		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-07
Client ID: MW-8
Sample Location: PHILA, PA

Date Collected: 04/01/22 11:40
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 14:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	5.8	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	5.2	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-07
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 04/01/22 11:40
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	0.22	J	ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	3.0		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.25	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	0.36	J	ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	93		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-07
Client ID: MW-8
Sample Location: PHILA, PA

Date Collected: 04/01/22 11:40
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 14:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
4-Bromofluorobenzene	114		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-08
Client ID: MW-9
Sample Location: PHILA, PA

Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 14:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	110		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	0.34	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	22		ug/l	5.0	1.9	1
Benzene	1.3		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	3.6	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-08
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	14		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	3.7	J	ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	17		ug/l	0.50	0.17	1
p/m-Xylene	110		ug/l	1.0	0.33	1
o-Xylene	81		ug/l	1.0	0.39	1
Xylenes, Total	190		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	8.8		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	60		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	180		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	150		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	**37**	Q	70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-08
Client ID: MW-9
Sample Location: PHILA, PA

Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 14:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	108		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 15:05
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	0.59	J	ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.87	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	8.2	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	50		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.58		ug/l	0.50	0.13	1
Methyl cyclohexane	8.4	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	7.2		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	7.2		ug/l	0.50	0.17	1
p/m-Xylene	8.9		ug/l	1.0	0.33	1
o-Xylene	4.0		ug/l	1.0	0.39	1
Xylenes, Total	13		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	2.7		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	14		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	34		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	8.8		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	91		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 15:05
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
4-Bromofluorobenzene	121		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 04/01/22 14:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 15:29
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 04/01/22 14:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	123		70-130
Dibromofluoromethane	96		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 04/01/22 14:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 15:29
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
4-Bromofluorobenzene	117		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-11
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 09:25
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-11
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	108		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-11
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 09:25
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
4-Bromofluorobenzene	110		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 08:37
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02-11 Batch: WG1626541-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
4-Bromofluorobenzene	111		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/22 08:37
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-11 Batch: WG1626543-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/22 08:37
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-11 Batch: WG1626543-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/22 08:37
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-11 Batch: WG1626543-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	107		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/13/22 12:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1627006-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
4-Bromofluorobenzene	99		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/13/22 05:24
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1627030-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/13/22 05:24
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1627030-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/13/22 05:24
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1627030-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02-11 Batch: WG1626541-3 WG1626541-4								
1,4-Dioxane	130		130		70-130	0		25
1,1,2,2-Tetrachloroethane	104		108		70-130	4		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		108		70-130
4-Bromofluorobenzene	108		109		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2216990
Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-11 Batch: WG1626543-3 WG1626543-4								
Dichlorodifluoromethane	120		120		36-147	0		20
Chloromethane	**150**	Q	**150**	Q	64-130	0		20
Vinyl chloride	110		120		55-140	9		20
Bromomethane	67		77		39-139	14		20
Chloroethane	100		100		55-138	0		20
Trichlorofluoromethane	93		92		62-150	1		20
1,1-Dichloroethene	99		100		61-145	1		20
Carbon disulfide	110		110		51-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		100		70-130	0		20
Methylene chloride	100		100		70-130	0		20
Acetone	120		120		58-148	0		20
trans-1,2-Dichloroethene	99		99		70-130	0		20
Methyl Acetate	**140**	Q	**140**	Q	70-130	0		20
Methyl tert butyl ether	87		90		63-130	3		20
1,1-Dichloroethane	110		110		70-130	0		20
cis-1,2-Dichloroethene	98		100		70-130	2		20
Cyclohexane	130		130		70-130	0		20
Bromochloromethane	100		100		70-130	0		20
Chloroform	99		98		70-130	1		20
Carbon tetrachloride	94		93		63-132	1		20
1,1,1-Trichloroethane	93		92		67-130	1		20
2-Butanone	130		130		63-138	0		20
Benzene	110		110		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2216990
Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-11 Batch: WG1626543-3 WG1626543-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Bromodichloromethane	93		91		67-130	2		20
cis-1,3-Dichloropropene	94		95		70-130	1		20
Toluene	100		100		70-130	0		20
Tetrachloroethene	95		92		70-130	3		20
4-Methyl-2-pentanone	120		130		59-130	8		20
trans-1,3-Dichloropropene	99		99		70-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Dibromochloromethane	100		98		63-130	2		20
1,2-Dibromoethane	100		100		70-130	0		20
2-Hexanone	130		130		57-130	0		20
Chlorobenzene	100		100		75-130	0		20
Ethylbenzene	100		100		70-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
Styrene	105		105		70-130	0		20
Bromoform	90		89		54-136	1		20
Isopropylbenzene	100		110		70-130	10		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-11 Batch: WG1626543-3 WG1626543-4								
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	100		98		41-144	2		20
1,2,4-Trichlorobenzene	83		86		70-130	4		20
Naphthalene	89		92		70-130	3		20
1,2,3-Trichlorobenzene	88		89		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		94		70-130
Toluene-d8	107		110		70-130
4-Bromofluorobenzene	102		107		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1627006-3 WG1627006-4								
1,4-Dioxane	80		78		70-130	3		25
1,1,2,2-Tetrachloroethane	103		111		70-130	7		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		113		70-130
4-Bromofluorobenzene	96		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1627030-3 WG1627030-4								
Dichlorodifluoromethane	100		100		36-147	0		20
Chloromethane	100		110		64-130	10		20
Vinyl chloride	99		100		55-140	1		20
Bromomethane	96		96		39-139	0		20
Chloroethane	96		110		55-138	14		20
Trichlorofluoromethane	110		110		62-150	0		20
1,1-Dichloroethene	100		110		61-145	10		20
Carbon disulfide	98		100		51-130	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		70-130	0		20
Methylene chloride	98		100		70-130	2		20
Acetone	110		110		58-148	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Methyl Acetate	92		95		70-130	3		20
Methyl tert butyl ether	96		99		63-130	3		20
1,1-Dichloroethane	99		100		70-130	1		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Cyclohexane	99		100		70-130	1		20
Bromochloromethane	110		100		70-130	10		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,1,1-Trichloroethane	100		110		67-130	10		20
2-Butanone	89		86		63-138	3		20
Benzene	100		98		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2216990
Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1627030-3 WG1627030-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichloropropane	97		100		70-130	3		20
Bromodichloromethane	98		100		67-130	2		20
cis-1,3-Dichloropropene	99		98		70-130	1		20
Toluene	98		94		70-130	4		20
Tetrachloroethene	110		100		70-130	10		20
4-Methyl-2-pentanone	87		92		59-130	6		20
trans-1,3-Dichloropropene	98		95		70-130	3		20
1,1,2-Trichloroethane	96		96		70-130	0		20
Dibromochloromethane	98		95		63-130	3		20
1,2-Dibromoethane	96		94		70-130	2		20
2-Hexanone	87		91		57-130	4		20
Chlorobenzene	100		96		75-130	4		20
Ethylbenzene	98		97		70-130	1		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	100		95		70-130	5		20
Styrene	100		100		70-130	0		20
Bromoform	95		96		54-136	1		20
Isopropylbenzene	93		94		70-130	1		20
1,3,5-Trimethylbenzene	95		95		64-130	0		20
1,2,4-Trimethylbenzene	96		96		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1627030-3 WG1627030-4								
1,3-Dichlorobenzene	98		96		70-130	2		20
1,4-Dichlorobenzene	99		96		70-130	3		20
1,2-Dichlorobenzene	97		96		70-130	1		20
1,2-Dibromo-3-chloropropane	91		94		41-144	3		20
1,2,4-Trichlorobenzene	100		98		70-130	2		20
Naphthalene	98		93		70-130	5		20
1,2,3-Trichlorobenzene	100		97		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		105		70-130
Toluene-d8	97		99		70-130
4-Bromofluorobenzene	90		95		70-130
Dibromofluoromethane	102		106		70-130

METALS

Project Name: ALLIANCE 51ST ST
Lab Number: L2216990
Project Number: 30108678.03B
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-01
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 04/01/22 12:55
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:00	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-02
Client ID: MW-2
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 14:35
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:04	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-03
Client ID: MW-3
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 13:00
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:09	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-04
Client ID: MW-4
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 11:35
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.5101	J	ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:14	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Lab Number: L2216990
Project Number: 30108678.03B
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:19	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-06
Client ID: MW-7
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 14:00
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	1.786		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:24	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-07
Client ID: MW-8
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 11:40
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:29	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-08
Client ID: MW-9
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	65.15		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:33	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-09
Client ID: DUP-1
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	2.161		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:38	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 14:30
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/17/22 23:55	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1625216-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/17/22 22:57	1,6020B	WP

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1625216-2								
Lead, Dissolved	104		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2216990
Report Date: 04/22/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1625216-3 WG1625216-4 QC Sample: L2216191-08 Client ID: MS Sample												
Lead, Dissolved	ND	530	529.2	100		532.1	100		75-125	1		20

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2216990
Report Date: 04/22/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2216990-01A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-01B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-01C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-01D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-02A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-02B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-02C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-02D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-03A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-03B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-03C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-03D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-04A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-04B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-04C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-04D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-05A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-05B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-05C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-05D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-06A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-06B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-06C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2216990
Report Date: 04/22/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2216990-06D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-07A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-07B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-07C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-07D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-08A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-08B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-08C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-08D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-09A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-09B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-09C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-09D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-10A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-10B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-10C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-10D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-11A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-11B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2216990
Project Number:	30108678.03B	**Report Date:**	04/22/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2216990
Project Number:	30108678.03B	**Report Date:**	04/22/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2216990
Project Number:	30108678.03B	**Report Date:**	04/22/22

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2216990
Project Number:	30108678.03B	**Report Date:**	04/22/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 04/02/22

ALPHA Job #: L2216990

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Arcadis

Address: 1 Lawrence Way Ste 5
Hillsborough NJ

Phone: 908-526-1000

Fax: Matthew.hilinski@arcadis.com

Email: Larry.Grant@arcadis.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Allisure 91st St

Project Location: Phila, PA

Project #: 30086078.03B

Project Manager: Larry Grant

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Dissolved Lead is Field Filtered
Include 1,2,4 TMB with VOC results

ANALYSIS: VOC-15 w/ 1,2,4 TMB; Dissolved Lead

SAMPLE HANDLING

Filtration
☒ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC-15 w/ 1,2,4 TMB	Dissolved Lead	Sample Specific Comments	TOTAL # BOTTLES
16990-01	MW-1	4/1/22	1291	AQ	MH	X	X	Lead field filtered	4
-02	MW-2		1435			X	X		
-03	MW-3		1300			X	X		
-04	MW-4		1125			X	X		
-05	MW-5		1030			X	X		
-06	MW-7		1400			X	X		
-07	MW-8		1140			X	X		
-08	MW-9		1030			X	X		
-09	DUP-1		X			X	X		
-10	Field Blank		1470			X	X		
-11	Trip Blank					VOC-1			

Container Type	A	P
Preservative	B	C

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time
MHM Hilinski	4/1/21 1545	Omar Gosh	4/1/22 15:25
Omar Gosh	4/1/22 1830		4/1-1800
Authorized Person	4/1/22 2100	Authorized Person	4/2/22 0225

4/2/22 0225

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L2227668
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678
Report Date:	06/17/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2227668-01	SG-1	SOIL_VAPOR	PHILA, PA	05/25/22 07:38	05/25/22
L2227668-02	SG-2	SOIL_VAPOR	PHILA, PA	05/25/22 08:03	05/25/22
L2227668-03	SG-3	SOIL_VAPOR	PHILA, PA	05/25/22 08:54	05/25/22
L2227668-04	SG-4	SOIL_VAPOR	PHILA, PA	05/25/22 09:21	05/25/22
L2227668-05	SG-5	SOIL_VAPOR	PHILA, PA	05/25/22 10:06	05/25/22
L2227668-06	SG-6	SOIL_VAPOR	PHILA, PA	05/25/22 10:38	05/25/22
L2227668-07	SG-7	SOIL_VAPOR	PHILA, PA	05/25/22 11:10	05/25/22

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2227668
Project Number:	30108678	**Report Date:**	06/17/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2227668
Project Number:	30108678	**Report Date:**	06/17/22

Case Narrative (continued)

Report Revision

June 17, 2022 the report has been amended to report TICs at the request of the client.

Volatile Organics in Air

Canisters were released from the laboratory on May 23, 2022. The canister certification results are provided as an addendum.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The canister ID numbers on the sample tags were misassigned in the laboratory, subsequently the cansiter ID numbers on the COC do not line up with the actual canister ID numbers. The samples were logged in based on the sample IDs on the canister tags.

L2227668-05D,-06D,-07D: The samples have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

The WG1648255-3 LCS recoveries for cis-1,3-dichloropropene (135%) and bromoform (131%) are above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of these analytes.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 06/17/22

AIR

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-01
Client ID: SG-1
Sample Location: PHILA, PA

Date Collected: 05/25/22 07:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 04:25
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.522	0.200	0.058	2.58	0.989	0.288		1
Chloromethane	0.512	0.200	0.069	1.06	0.413	0.142		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	0.559	0.200	0.067	1.24	0.442	0.148		1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	0.370	0.500	0.060	0.848	1.15	0.137	J	1
Acetone	4.58	1.00	0.689	10.9	2.38	1.64		1
Trichlorofluoromethane	0.216	0.200	0.069	1.21	1.12	0.386		1
Isopropanol	1.05	0.500	0.478	2.58	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
Methylene chloride	0.199	0.500	0.134	0.691	1.74	0.466	J	1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	0.362	0.200	0.056	1.13	0.623	0.174		1
Freon-113	ND	0.200	0.066	ND	1.53	0.503		1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Chloroform	1.02	0.200	0.063	4.98	0.977	0.309		1
Tetrahydrofuran	0.231	0.500	0.057	0.681	1.47	0.168	J	1
1,2-Dichloroethane	0.393	0.200	0.060	1.59	0.809	0.244		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-01
Client ID: SG-1
Sample Location: PHILA, PA

Date Collected: 05/25/22 07:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	9.49	0.200	0.036	33.4	0.705	0.128		1
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
Benzene	7.90	0.200	0.049	25.2	0.639	0.156		1
Carbon tetrachloride	0.051	0.200	0.050	0.321	1.26	0.314	J	1
Cyclohexane	1.28	0.200	0.037	4.41	0.688	0.127		1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
4-Methyl-2-pentanone	1.68	0.500	0.042	6.88	2.05	0.173		1
Xylenes, Total	24.6	0.200	0.045	107	0.869	0.197		1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	30.4	0.200	0.052	115	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Tetrachloroethene	0.887	0.200	0.066	6.01	1.36	0.444		1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	4.20	0.200	0.043	18.2	0.869	0.188		1
p/m-Xylene	19.4	0.400	0.091	84.3	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	0.072	0.200	0.043	0.307	0.852	0.185	J	1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1
o-Xylene	5.13	0.200	0.045	22.3	0.869	0.197		1
Isopropylbenzene	0.353	0.200	0.049	1.74	0.983	0.241		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-01
Client ID: SG-1
Sample Location: PHILA, PA

Date Collected: 05/25/22 07:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	1.50	0.200	0.068	7.37	0.983	0.332		1
1,2,4-Trimethylbenzene	3.60	0.200	0.037	17.7	0.983	0.181		1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	0.388	0.200	0.089	2.03	1.05	0.464		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Butane	35	NJ	ppbV		1
unknown alkane	6.5	J	ppbV		1
Unknown	8.0	J	ppbV		1
Cyclohexane, 1,1,2,3-tetram...	6.6	NJ	ppbV		1
unknown alkane	8.0	J	ppbV		1
unknown alkane	4.2	J	ppbV		1
Unknown	8.3	J	ppbV		1
Cyclopentane	5.5	NJ	ppbV		1
Pentane	23	NJ	ppbV		1
unknown alkane	4.3	J	ppbV		1
Pentane, 2-methyl-	3.8	NJ	ppbV		1
Undecane	4.2	NJ	ppbV		1
Isobutane	4.9	NJ	ppbV		1
Unknown	3.7	J	ppbV		1
Heptane	4.8	NJ	ppbV		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-01
Client ID: SG-1
Sample Location: PHILA, PA

Date Collected: 05/25/22 07:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	101		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-02
Client ID: SG-2
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:03
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 05:04
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.510	0.200	0.058	2.52	0.989	0.288		1
Chloromethane	0.512	0.200	0.069	1.06	0.413	0.142		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	0.422	0.200	0.067	0.934	0.442	0.148		1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	ND	0.500	0.060	ND	1.15	0.137		1
Acetone	12.9	1.00	0.689	30.6	2.38	1.64		1
Trichlorofluoromethane	0.203	0.200	0.069	1.14	1.12	0.386		1
Isopropanol	ND	0.500	0.478	ND	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
Methylene chloride	0.255	0.500	0.134	0.886	1.74	0.466	J	1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	2.66	0.200	0.056	8.28	0.623	0.174		1
Freon-113	ND	0.200	0.066	ND	1.53	0.503		1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Chloroform	0.078	0.200	0.063	0.381	0.977	0.309	J	1
Tetrahydrofuran	0.244	0.500	0.057	0.720	1.47	0.168	J	1
1,2-Dichloroethane	ND	0.200	0.060	ND	0.809	0.244		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-02
Client ID: SG-2
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:03
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.599	0.200	0.036	2.11	0.705	0.128		1
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
Benzene	0.931	0.200	0.049	2.97	0.639	0.156		1
Carbon tetrachloride	ND	0.200	0.050	ND	1.26	0.314		1
Cyclohexane	0.190	0.200	0.037	0.654	0.688	0.127	J	1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
4-Methyl-2-pentanone	0.549	0.500	0.042	2.25	2.05	0.173		1
Xylenes, Total	3.25	0.200	0.045	14.1	0.869	0.197		1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	1.29	0.200	0.052	4.86	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Tetrachloroethene	0.096	0.200	0.066	0.651	1.36	0.444	J	1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	0.524	0.200	0.043	2.28	0.869	0.188		1
p/m-Xylene	2.09	0.400	0.091	9.08	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	0.105	0.200	0.043	0.447	0.852	0.185	J	1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1
o-Xylene	1.16	0.200	0.045	5.04	0.869	0.197		1
Isopropylbenzene	0.200	0.200	0.049	0.983	0.983	0.241		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-02
Client ID: SG-2
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:03
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	0.399	0.200	0.068	1.96	0.983	0.332		1
1,2,4-Trimethylbenzene	1.13	0.200	0.037	5.56	0.983	0.181		1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	0.186	0.200	0.089	0.975	1.05	0.464	J	1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
unknown alkane	3.6	J	ppbV		1
Butane	1.3	NJ	ppbV		1
Propene	1.4	NJ	ppbV		1
unknown alkane	7.5	J	ppbV		1
unknown alkane	4.8	J	ppbV		1
Unknown	1.2	J	ppbV		1
unknown alkane	1.7	J	ppbV		1
Unknown	1.4	J	ppbV		1
Pentane, 2,4-dimethyl-	1.6	NJ	ppbV		1
Pentane	1.3	NJ	ppbV		1
Unknown	1.1	J	ppbV		1
Isobutane	1.8	NJ	ppbV		1
Methyl Alcohol	1.4	NJ	ppbV		1
Unknown	1.5	J	ppbV		1
2-Butanone	1.3	NJ	ppbV		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-02
Client ID: SG-2
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:03
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-03
Client ID: SG-3
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:54
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 05:42
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.545	0.200	0.058	2.69	0.989	0.288		1
Chloromethane	0.556	0.200	0.069	1.15	0.413	0.142		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	ND	0.200	0.067	ND	0.442	0.148		1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	0.401	0.500	0.060	0.919	1.15	0.137	J	1
Acetone	2.80	1.00	0.689	6.65	2.38	1.64		1
Trichlorofluoromethane	0.213	0.200	0.069	1.20	1.12	0.386		1
Isopropanol	ND	0.500	0.478	ND	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
Methylene chloride	2.04	0.500	0.134	7.09	1.74	0.466		1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	0.397	0.200	0.056	1.24	0.623	0.174		1
Freon-113	ND	0.200	0.066	ND	1.53	0.503		1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Chloroform	ND	0.200	0.063	ND	0.977	0.309		1
Tetrahydrofuran	0.076	0.500	0.057	0.224	1.47	0.168	J	1
1,2-Dichloroethane	0.169	0.200	0.060	0.684	0.809	0.244	J	1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-03
Client ID: SG-3
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:54
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	2.64	0.200	0.036	9.30	0.705	0.128		1
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
Benzene	3.05	0.200	0.049	9.74	0.639	0.156		1
Carbon tetrachloride	0.070	0.200	0.050	0.440	1.26	0.314	J	1
Cyclohexane	0.238	0.200	0.037	0.819	0.688	0.127		1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
4-Methyl-2-pentanone	0.071	0.500	0.042	0.291	2.05	0.173	J	1
Xylenes, Total	6.42	0.200	0.045	27.9	0.869	0.197		1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	6.84	0.200	0.052	25.8	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Tetrachloroethene	0.067	0.200	0.066	0.454	1.36	0.444	J	1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	1.28	0.200	0.043	5.56	0.869	0.188		1
p/m-Xylene	5.17	0.400	0.091	22.5	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	ND	0.200	0.043	ND	0.852	0.185		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1
o-Xylene	1.24	0.200	0.045	5.39	0.869	0.197		1
Isopropylbenzene	0.082	0.200	0.049	0.403	0.983	0.241	J	1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-03
Client ID: SG-3
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:54
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	0.424	0.200	0.068	2.08	0.983	0.332		1
1,2,4-Trimethylbenzene	1.54	0.200	0.037	7.57	0.983	0.181		1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	1.59	0.200	0.089	8.34	1.05	0.464		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Methyl Alcohol	8.2	NJ	ppbV		1
Pentane	3.4	NJ	ppbV		1
Ethyl Alcohol	1.5	NJ	ppbV		1
Butane	1.6	NJ	ppbV		1
unknown alkane	2.0	J	ppbV		1
Acetaldehyde	2.0	NJ	ppbV		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	95		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-04
Client ID: SG-4
Sample Location: PHILA, PA

Date Collected: 05/25/22 09:21
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 06:21
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.533	0.200	0.058	2.64	0.989	0.288		1
Chloromethane	0.597	0.200	0.069	1.23	0.413	0.142		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	0.096	0.200	0.067	0.212	0.442	0.148	J	1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	0.231	0.500	0.060	0.530	1.15	0.137	J	1
Acetone	2.71	1.00	0.689	6.44	2.38	1.64		1
Trichlorofluoromethane	0.213	0.200	0.069	1.20	1.12	0.386		1
Isopropanol	ND	0.500	0.478	ND	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
Methylene chloride	0.236	0.500	0.134	0.820	1.74	0.466	J	1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	0.348	0.200	0.056	1.08	0.623	0.174		1
Freon-113	0.071	0.200	0.066	0.544	1.53	0.503	J	1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Chloroform	ND	0.200	0.063	ND	0.977	0.309		1
Tetrahydrofuran	ND	0.500	0.057	ND	1.47	0.168		1
1,2-Dichloroethane	ND	0.200	0.060	ND	0.809	0.244		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-04
Client ID: SG-4
Sample Location: PHILA, PA

Date Collected: 05/25/22 09:21
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	1.06	0.200	0.036	3.74	0.705	0.128		1
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
Benzene	1.06	0.200	0.049	3.39	0.639	0.156		1
Carbon tetrachloride	0.068	0.200	0.050	0.428	1.26	0.314	J	1
Cyclohexane	0.401	0.200	0.037	1.38	0.688	0.127		1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
4-Methyl-2-pentanone	ND	0.500	0.042	ND	2.05	0.173		1
Xylenes, Total	0.586	0.200	0.045	2.55	0.869	0.197	J	1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	0.697	0.200	0.052	2.63	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Tetrachloroethene	ND	0.200	0.066	ND	1.36	0.444		1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	0.111	0.200	0.043	0.482	0.869	0.188	J	1
p/m-Xylene	0.410	0.400	0.091	1.78	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	ND	0.200	0.043	ND	0.852	0.185		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1
o-Xylene	0.176	0.200	0.045	0.764	0.869	0.197	J	1
Isopropylbenzene	ND	0.200	0.049	ND	0.983	0.241		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-04
Client ID: SG-4
Sample Location: PHILA, PA

Date Collected: 05/25/22 09:21
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	0.068	ND	0.983	0.332		1
1,2,4-Trimethylbenzene	0.139	0.200	0.037	0.683	0.983	0.181	J	1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	ND	0.200	0.089	ND	1.05	0.464		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Methyl Alcohol	2.8	NJ	ppbV		1
Butane	1.2	NJ	ppbV		1
Acetaldehyde	1.5	NJ	ppbV		1
Pentane	1.8	NJ	ppbV		1
Nonanal	1.7	NJ	ppbV		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	96		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-05 D
Client ID: SG-5
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:06
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 08:09
Analyst: RY

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2500	729.	ND	12400	3600		12500
Chloromethane	ND	2500	861.	ND	5160	1780		12500
Vinyl chloride	ND	2500	784.	ND	6390	2000		12500
1,3-Butadiene	ND	2500	838.	ND	5530	1850		12500
Bromomethane	ND	2500	966.	ND	9710	3750		12500
Chloroethane	ND	2500	1010	ND	6600	2670		12500
Vinyl bromide	ND	2500	896.	ND	10900	3920		12500
Acrolein	ND	6250	745.	ND	14300	1710		12500
Acetone	ND	12500	8610	ND	29700	20500		12500
Trichlorofluoromethane	ND	2500	858.	ND	14000	4820		12500
Isopropanol	ND	6250	5980	ND	15400	14700		12500
Acrylonitrile	ND	6250	694.	ND	13600	1510		12500
1,1-Dichloroethene	ND	2500	804.	ND	9910	3190		12500
Methylene chloride	ND	6250	1680	ND	21700	5840		12500
3-Chloropropene	ND	2500	731.	ND	7830	2290		12500
Carbon disulfide	ND	2500	699.	ND	7790	2180		12500
Freon-113	ND	2500	820.	ND	19200	6280		12500
trans-1,2-Dichloroethene	ND	2500	804.	ND	9910	3190		12500
1,1-Dichloroethane	ND	2500	785.	ND	10100	3180		12500
Methyl tert butyl ether	ND	2500	656.	ND	9010	2370		12500
Chloroform	ND	2500	791.	ND	12200	3860		12500
Tetrahydrofuran	ND	6250	710.	ND	18400	2090		12500
1,2-Dichloroethane	ND	2500	752.	ND	10100	3040		12500

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-05 D
Client ID: SG-5
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:06
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	29100	2500	455.	103000	8810	1600		12500
1,1,1-Trichloroethane	ND	2500	626.	ND	13600	3420		12500
Benzene	1360	2500	609.	4340	7990	1950	J	12500
Carbon tetrachloride	ND	2500	624.	ND	15700	3930		12500
Cyclohexane	354000	2500	460.	1220000	8610	1580		12500
1,2-Dichloropropane	ND	2500	762.	ND	11600	3520		12500
Bromodichloromethane	ND	2500	630.	ND	16700	4220		12500
1,4-Dioxane	ND	2500	1010	ND	9010	3640		12500
Trichloroethene	ND	2500	631.	ND	13400	3390		12500
Methyl Methacrylate	ND	6250	871.	ND	25600	3570		12500
4-Methyl-2-pentanone	ND	6250	526.	ND	25600	2160		12500
Xylenes, Total	ND	2500	566.	ND	10900	2460		12500
1,1,2-Trichloroethane	ND	2500	838.	ND	13600	4570		12500
Toluene	688	2500	650.	2590	9420	2450	J	12500
1,3-Dichloropropane	ND	2500	1320	ND	11600	6100		12500
Dibromochloromethane	ND	2500	768.	ND	21300	6540		12500
1,2-Dibromoethane	ND	2500	701.	ND	19200	5390		12500
Tetrachloroethene	ND	2500	819.	ND	17000	5550		12500
Chlorobenzene	ND	2500	780.	ND	11500	3590		12500
Ethylbenzene	ND	2500	540.	ND	10900	2350		12500
p/m-Xylene	ND	5000	1140	ND	21700	4950		12500
Bromoform	ND	2500	801.	ND	25800	8280		12500
Styrene	ND	2500	542.	ND	10600	2310		12500
1,1,2,2-Tetrachloroethane	ND	2500	768.	ND	17200	5270		12500
o-Xylene	ND	2500	566.	ND	10900	2460		12500
Isopropylbenzene	ND	2500	614.	ND	12300	3020		12500

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-05 D
Client ID: SG-5
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:06
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	2500	844.	ND	12300	4150		12500
1,2,4-Trimethylbenzene	ND	2500	460.	ND	12300	2260		12500
Benzyl chloride	ND	2500	602.	ND	12900	3120		12500
1,4-Dichlorobenzene	ND	2500	795.	ND	15000	4780		12500
1,2-Dichlorobenzene	ND	2500	785.	ND	15000	4720		12500
1,2,4-Trichlorobenzene	ND	2500	842.	ND	18600	6250		12500
Naphthalene	ND	2500	1110	ND	13100	5820		12500

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Hexane, 3-methyl-	460000	NJ	ppbV		12500
1-Pentene, 2,4,4-trimethyl-	340000	NJ	ppbV		12500
Cyclopentane, Methyl-	160000	NJ	ppbV		12500
Unknown	290000	J	ppbV		12500
unknown alkane	370000	J	ppbV		12500
Cyclohexane, methyl-	500000	NJ	ppbV		12500
Unknown	210000	J	ppbV		12500
Hexane, 2-methyl-	340000	NJ	ppbV		12500
Pentane, 2,3-dimethyl-	240000	NJ	ppbV		12500
Unknown	170000	J	ppbV		12500
Pentane, 3-methyl-	920000	NJ	ppbV		12500
Butane, 2-Methyl-	150000	NJ	ppbV		12500
Unknown	140000	J	ppbV		12500
Pentane, 2-methyl-	910000	NJ	ppbV		12500
Pentane, 2,4-dimethyl-	270000	NJ	ppbV		12500

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-05 D
Client ID: SG-5
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:06
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	104		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-06 D
Client ID: SG-6
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 10:11
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	18.2	5.32	ND	90.0	26.3		91.24
Chloromethane	ND	18.2	6.29	ND	37.6	13.0		91.24
Vinyl chloride	ND	18.2	5.72	ND	46.5	14.6		91.24
1,3-Butadiene	ND	18.2	6.11	ND	40.3	13.5		91.24
Bromomethane	ND	18.2	7.05	ND	70.7	27.4		91.24
Chloroethane	ND	18.2	7.34	ND	48.0	19.4		91.24
Vinyl bromide	ND	18.2	6.54	ND	79.6	28.6		91.24
Acrolein	ND	45.6	5.44	ND	105	12.5		91.24
Acetone	ND	91.2	62.9	ND	217	149.		91.24
Trichlorofluoromethane	ND	18.2	6.26	ND	102	35.2		91.24
Isopropanol	ND	45.6	43.6	ND	112	107.		91.24
Acrylonitrile	ND	45.6	5.06	ND	99.0	11.0		91.24
1,1-Dichloroethene	ND	18.2	5.87	ND	72.2	23.3		91.24
Methylene chloride	ND	45.6	12.2	ND	158	42.4		91.24
3-Chloropropene	ND	18.2	5.34	ND	57.0	16.7		91.24
Carbon disulfide	ND	18.2	5.10	ND	56.7	15.9		91.24
Freon-113	ND	18.2	5.98	ND	139	45.8		91.24
trans-1,2-Dichloroethene	ND	18.2	5.87	ND	72.2	23.3		91.24
1,1-Dichloroethane	ND	18.2	5.73	ND	73.7	23.2		91.24
Methyl tert butyl ether	ND	18.2	4.79	ND	65.6	17.3		91.24
Chloroform	ND	18.2	5.78	ND	88.9	28.2		91.24
Tetrahydrofuran	ND	45.6	5.18	ND	134	15.3		91.24
1,2-Dichloroethane	ND	18.2	5.49	ND	73.7	22.2		91.24

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-06 D
Client ID: SG-6
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	10.5	18.2	3.32	37.0	64.1	11.7	J	91.24
1,1,1-Trichloroethane	ND	18.2	4.57	ND	99.3	24.9		91.24
Benzene	ND	18.2	4.44	ND	58.1	14.2		91.24
Carbon tetrachloride	ND	18.2	4.55	ND	114	28.6		91.24
Cyclohexane	68.6	18.2	3.36	236	62.6	11.6		91.24
1,2-Dichloropropane	ND	18.2	5.56	ND	84.1	25.7		91.24
Bromodichloromethane	ND	18.2	4.60	ND	122	30.8		91.24
1,4-Dioxane	ND	18.2	7.34	ND	65.6	26.5		91.24
Trichloroethene	ND	18.2	4.61	ND	97.8	24.8		91.24
Methyl Methacrylate	ND	45.6	6.36	ND	187	26.0		91.24
4-Methyl-2-pentanone	83.1	45.6	3.84	341	187	15.7		91.24
Xylenes, Total	12.7	18.2	4.13	55.2	79.1	17.9	J	91.24
1,1,2-Trichloroethane	ND	18.2	6.11	ND	99.3	33.3		91.24
Toluene	31.8	18.2	4.74	120	68.6	17.9		91.24
1,3-Dichloropropane	ND	18.2	9.67	ND	84.1	44.7		91.24
Dibromochloromethane	ND	18.2	5.60	ND	155	47.7		91.24
1,2-Dibromoethane	ND	18.2	5.12	ND	140	39.3		91.24
Tetrachloroethene	ND	18.2	5.98	ND	123	40.6		91.24
Chlorobenzene	ND	18.2	5.69	ND	83.8	26.2		91.24
Ethylbenzene	ND	18.2	3.94	ND	79.1	17.1		91.24
p/m-Xylene	12.7	36.5	8.30	55.2	159	36.1	J	91.24
Bromoform	ND	18.2	5.85	ND	188	60.5		91.24
Styrene	ND	18.2	3.96	ND	77.5	16.9		91.24
1,1,2,2-Tetrachloroethane	ND	18.2	5.60	ND	125	38.5		91.24
o-Xylene	ND	18.2	4.13	ND	79.1	17.9		91.24
Isopropylbenzene	ND	18.2	4.48	ND	89.5	22.0		91.24

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-06 D
Client ID: SG-6
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	18.2	6.16	ND	89.5	30.3		91.24
1,2,4-Trimethylbenzene	ND	18.2	3.36	ND	89.5	16.5		91.24
Benzyl chloride	ND	18.2	4.40	ND	94.2	22.8		91.24
1,4-Dichlorobenzene	ND	18.2	5.80	ND	109	34.9		91.24
1,2-Dichlorobenzene	ND	18.2	5.73	ND	109	34.5		91.24
1,2,4-Trichlorobenzene	ND	18.2	6.15	ND	135	45.7		91.24
Naphthalene	ND	18.2	8.07	ND	95.4	42.3		91.24

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Pentane, 2,3-dimethyl-	1800	NJ	ppbV		91.24
Unknown	990	J	ppbV		91.24
unknown cycloalkane	920	J	ppbV		91.24
Pentane, 2,4-dimethyl-	1600	NJ	ppbV		91.24
Cyclohexane, 1,1,3-trimethyl-	1700	NJ	ppbV		91.24
Cyclopentane, 1,2,4-trimethyl-	890	NJ	ppbV		91.24
Cyclopentane, 1,1,3-trimethyl-	1200	NJ	ppbV		91.24
Hexane, 2,4-dimethyl-	1700	NJ	ppbV		91.24
unknown alkane	950	J	ppbV		91.24
1-Pentene, 2,4,4-trimethyl-	810	NJ	ppbV		91.24
unknown alkane	3800	J	ppbV		91.24
unknown cycloalkane	930	J	ppbV		91.24
Hexane, 2,5-dimethyl-	770	NJ	ppbV		91.24
Pentane, 3-methyl-	1300	NJ	ppbV		91.24
unknown alkane	1500	J	ppbV		91.24

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-06 D
Client ID: SG-6
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	103		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	107		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-07 D
Client ID: SG-7
Sample Location: PHILA, PA

Date Collected: 05/25/22 11:10
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 09:21
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	125.	36.4	ND	618	180.		625
Chloromethane	ND	125.	43.1	ND	258	89.0		625
Vinyl chloride	ND	125.	39.2	ND	320	100.		625
1,3-Butadiene	ND	125.	41.9	ND	277	92.7		625
Bromomethane	ND	125.	48.3	ND	485	188.		625
Chloroethane	ND	125.	50.3	ND	330	133.		625
Vinyl bromide	ND	125.	44.8	ND	547	196.		625
Acrolein	ND	312.	37.2	ND	715	85.3		625
Acetone	ND	625.	431.	ND	1480	1020		625
Trichlorofluoromethane	ND	125.	42.9	ND	702	241.		625
Isopropanol	ND	312.	299.	ND	767	735.		625
Acrylonitrile	ND	312.	34.7	ND	677	75.3		625
1,1-Dichloroethene	ND	125.	40.2	ND	496	159.		625
Methylene chloride	ND	312	83.8	ND	1080	291.		625
3-Chloropropene	ND	125.	36.6	ND	391	115.		625
Carbon disulfide	ND	125.	34.9	ND	389	109.		625
Freon-113	ND	125.	41.0	ND	958	314.		625
trans-1,2-Dichloroethene	ND	125.	40.2	ND	496	159.		625
1,1-Dichloroethane	ND	125.	39.2	ND	506	159.		625
Methyl tert butyl ether	ND	125.	32.8	ND	451	118.		625
Chloroform	ND	125.	39.6	ND	610	193.		625
Tetrahydrofuran	ND	312.	35.5	ND	920	105.		625
1,2-Dichloroethane	ND	125.	37.6	ND	506	152.		625

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-07 D
Client ID: SG-7
Sample Location: PHILA, PA

Date Collected: 05/25/22 11:10
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	279	125	22.8	983	441	80.4		625
1,1,1-Trichloroethane	ND	125.	31.3	ND	682	171.		625
Benzene	ND	125.	30.4	ND	399	97.1		625
Carbon tetrachloride	ND	125.	31.2	ND	786	196.		625
Cyclohexane	7570	125	23.0	26100	430	79.2		625
1,2-Dichloropropane	ND	125.	38.1	ND	578	176.		625
Bromodichloromethane	ND	125.	31.5	ND	837	211.		625
1,4-Dioxane	ND	125.	50.3	ND	450	181.		625
Trichloroethene	ND	125.	31.6	ND	672	170.		625
Methyl Methacrylate	ND	312.	43.6	ND	1280	179.		625
4-Methyl-2-pentanone	ND	312.	26.3	ND	1280	108.		625
Xylenes, Total	ND	125.	28.3	ND	543	123.		625
1,1,2-Trichloroethane	ND	125.	41.9	ND	682	229.		625
Toluene	45.0	125	32.5	170	471	122.	J	625
1,3-Dichloropropane	ND	125.	66.2	ND	578	306.		625
Dibromochloromethane	ND	125.	38.4	ND	1060	327.		625
1,2-Dibromoethane	ND	125.	35.1	ND	961	270.		625
Tetrachloroethene	ND	125.	40.9	ND	848	277.		625
Chlorobenzene	ND	125.	39.0	ND	576	180.		625
Ethylbenzene	ND	125.	27.0	ND	543	117.		625
p/m-Xylene	ND	250.	56.9	ND	1090	247.		625
Bromoform	ND	125.	40.1	ND	1290	415.		625
Styrene	ND	125.	27.1	ND	532	115.		625
1,1,2,2-Tetrachloroethane	ND	125.	38.4	ND	858	264.		625
o-Xylene	ND	125.	28.3	ND	543	123.		625
Isopropylbenzene	ND	125.	30.7	ND	615	151.		625

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-07 D
Client ID: SG-7
Sample Location: PHILA, PA

Date Collected: 05/25/22 11:10
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	125.	42.2	ND	615	207.		625
1,2,4-Trimethylbenzene	ND	125.	23.0	ND	615	113.		625
Benzyl chloride	ND	125.	30.1	ND	647	156.		625
1,4-Dichlorobenzene	ND	125.	39.8	ND	752	239.		625
1,2-Dichlorobenzene	ND	125.	39.2	ND	752	236.		625
1,2,4-Trichlorobenzene	ND	125.	42.1	ND	928	313.		625
Naphthalene	ND	125.	55.3	ND	655	290.		625

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Cyclohexane, methyl-	23000	NJ	ppbV		625
unknown alkane	7200	J	ppbV		625
Pentane, 3-methyl-	29000	NJ	ppbV		625
unknown cycloalkane	5300	J	ppbV		625
Pentane, 2,3-dimethyl-	10000	NJ	ppbV		625
Hexane, 2-methyl-	8400	NJ	ppbV		625
Butane, 2,3-Dimethyl-	14000	NJ	ppbV		625
1-Pentene, 2,4,4-trimethyl-	4000	NJ	ppbV		625
Hexane, 3-methyl-	13000	NJ	ppbV		625
Pentane, 2-methyl-	25000	NJ	ppbV		625
unknown alkane	7200	J	ppbV		625
unknown alkane	8000	J	ppbV		625
unknown alkane	39000	J	ppbV		625
Butane, 2-Methyl-	7800	NJ	ppbV		625
Pentane, 2,4-dimethyl-	12000	NJ	ppbV		625

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-07 D
Client ID: SG-7
Sample Location: PHILA, PA

Date Collected: 05/25/22 11:10
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	103		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	106		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/08/22 16:35

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1648255-4								
Dichlorodifluoromethane	ND	0.200	0.058	ND	0.989	0.288		1
Chloromethane	ND	0.200	0.069	ND	0.413	0.142		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	ND	0.200	0.067	ND	0.442	0.148		1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	ND	0.500	0.060	ND	1.15	0.137		1
Acetone	ND	1.00	0.689	ND	2.38	1.64		1
Trichlorofluoromethane	ND	0.200	0.069	ND	1.12	0.386		1
Isopropanol	ND	0.500	0.478	ND	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
Methylene chloride	ND	0.500	0.134	ND	1.74	0.466		1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	ND	0.200	0.056	ND	0.623	0.174		1
Freon-113	ND	0.200	0.066	ND	1.53	0.503		1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Xylenes, Total	ND	0.200	0.045	ND	0.869	0.197		1
Chloroform	ND	0.200	0.063	ND	0.977	0.309		1
Tetrahydrofuran	ND	0.500	0.057	ND	1.47	0.168		1
1,2-Dichloroethane	ND	0.200	0.060	ND	0.809	0.244		1
n-Hexane	ND	0.200	0.036	ND	0.705	0.128		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/08/22 16:35

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1648255-4								
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
Benzene	ND	0.200	0.049	ND	0.639	0.156		1
Carbon tetrachloride	ND	0.200	0.050	ND	1.26	0.314		1
Cyclohexane	ND	0.200	0.037	ND	0.688	0.127		1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
4-Methyl-2-pentanone	ND	0.500	0.042	ND	2.05	0.173		1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	ND	0.200	0.052	ND	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Tetrachloroethene	ND	0.200	0.066	ND	1.36	0.444		1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	ND	0.200	0.043	ND	0.869	0.188		1
p/m-Xylene	ND	0.400	0.091	ND	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	ND	0.200	0.043	ND	0.852	0.185		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1
o-Xylene	ND	0.200	0.045	ND	0.869	0.197		1
Isopropylbenzene	ND	0.200	0.049	ND	0.983	0.241		1
1,3,5-Trimethylbenzene	ND	0.200	0.068	ND	0.983	0.332		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/08/22 16:35

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1648255-4								
1,2,4-Trimethylbenzene	ND	0.200	0.037	ND	0.983	0.181		1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	ND	0.200	0.089	ND	1.05	0.464		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2227668

Report Date: 06/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1648255-3								
Dichlorodifluoromethane	108		-		70-130	-		
Chloromethane	93		-		70-130	-		
Vinyl chloride	106		-		70-130	-		
1,3-Butadiene	111		-		70-130	-		
Bromomethane	99		-		70-130	-		
Chloroethane	96		-		70-130	-		
Vinyl bromide	85		-		70-130	-		
Acrolein	97		-		60-113	-		
Acetone	87		-		40-160	-		
Trichlorofluoromethane	96		-		70-130	-		
Isopropanol	76		-		40-160	-		
Acrylonitrile	96		-		70-130	-		
1,1-Dichloroethene	95		-		70-130	-		
Methylene chloride	95		-		70-130	-		
3-Chloropropene	82		-		70-130	-		
Carbon disulfide	96		-		70-130	-		
Freon-113	103		-		70-130	-		
trans-1,2-Dichloroethene	84		-		70-130	-		
1,1-Dichloroethane	88		-		70-130	-		
Methyl tert butyl ether	91		-		70-130	-		
Chloroform	99		-		70-130	-		
Tetrahydrofuran	82		-		70-130	-		
1,2-Dichloroethane	85		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1648255-3								
n-Hexane	109		-		70-130	-		
1,1,1-Trichloroethane	113		-		70-130	-		
Benzene	123		-		70-130	-		
Carbon tetrachloride	120		-		70-130	-		
Cyclohexane	117		-		70-130	-		
1,2-Dichloropropane	111		-		70-130	-		
Bromodichloromethane	120		-		70-130	-		
1,4-Dioxane	116		-		70-130	-		
Trichloroethene	126		-		70-130	-		
Methyl Methacrylate	100		-		40-160	-		
4-Methyl-2-pentanone	108		-		70-130	-		
1,1,2-Trichloroethane	127		-		70-130	-		
Toluene	109		-		70-130	-		
1,3-Dichloropropane	111		-		70-130	-		
Dibromochloromethane	124		-		70-130	-		
1,2-Dibromoethane	126		-		70-130	-		
Tetrachloroethene	118		-		70-130	-		
Chlorobenzene	118		-		70-130	-		
Ethylbenzene	117		-		70-130	-		
p/m-Xylene	116		-		70-130	-		
Bromoform	**131**	Q	-		70-130	-		
Styrene	126		-		70-130	-		
1,1,2,2-Tetrachloroethane	122		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2227668

Report Date: 06/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1648255-3								
o-Xylene	117		-		70-130	-		
Isopropylbenzene	112		-		70-130	-		
1,3,5-Trimethylbenzene	119		-		70-130	-		
1,2,4-Trimethylbenzene	119		-		70-130	-		
Benzyl chloride	110		-		70-130	-		
1,4-Dichlorobenzene	116		-		70-130	-		
1,2-Dichlorobenzene	118		-		70-130	-		
1,2,4-Trichlorobenzene	123		-		70-130	-		
Naphthalene	117		-		70-130	-		

Project Name: ALLIANCE 51ST STREET

Lab Number: L2227668

Project Number: 30108678

Report Date: 06/17/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2227668-01	SG-1	01135	Flow 2	05/23/22	388990		-	-	-	Pass	144	137	5
L2227668-01	SG-1	364	2.7L Can	05/23/22	388990	L2225888-06	Pass	-29.5	-4.0	-	-	-	-
L2227668-02	SG-2	0336	Flow 1	05/23/22	388990		-	-	-	Pass	144	143	1
L2227668-02	SG-2	346	2.7L Can	05/23/22	388990	L2225888-06	Pass	-29.4	-3.9	-	-	-	-
L2227668-03	SG-3	01167	Flow 1	05/23/22	388990		-	-	-	Pass	144	139	4
L2227668-03	SG-3	2374	2.7L Can	05/23/22	388990	L2226183-02	Pass	-28.6	-3.4	-	-	-	-
L2227668-04	SG-4	0947	Flow 2	05/23/22	388990		-	-	-	Pass	144	4.9	187
L2227668-04	SG-4	2079	2.7L Can	05/23/22	388990	L2226183-02	Pass	-29.5	-4.9	-	-	-	-
L2227668-05	SG-5	01402	Flow 1	05/23/22	388990		-	-	-	Pass	144	143	1
L2227668-05	SG-5	3159	2.7L Can	05/23/22	388990	L2226183-02	Pass	-29.5	-2.6	-	-	-	-
L2227668-06	SG-6	0187	Flow 1	05/23/22	388990		-	-	-	Pass	144	141	2
L2227668-06	SG-6	537	2.7L Can	05/23/22	388990	L2226183-02	Pass	-29.4	0.0	-	-	-	-
L2227668-07	SG-7	01638	Flow 1	05/23/22	388990		-	-	-	Pass	144	134	7
L2227668-07	SG-7	403	2.7L Can	05/23/22	388990	L2226183-02	Pass	-29.4	-3.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/18/22 00:12
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	0.058	ND	0.707	0.207		1
Propylene	ND	0.500	0.060	ND	0.861	0.103		1
Propane	ND	0.500	0.132	ND	0.902	0.238		1
Dichlorodifluoromethane	ND	0.200	0.058	ND	0.989	0.288		1
Chloromethane	ND	0.200	0.069	ND	0.413	0.142		1
Freon-114	ND	0.200	0.059	ND	1.40	0.413		1
Methanol	ND	5.00	1.84	ND	6.55	2.41		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	ND	0.200	0.067	ND	0.442	0.148		1
Butane	ND	0.200	0.065	ND	0.475	0.154		1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Ethanol	ND	5.00	0.733	ND	9.42	1.38		1
Dichlorofluoromethane	ND	0.200	0.081	ND	0.842	0.340		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	ND	0.500	0.060	ND	1.15	0.137		1
Acetone	ND	1.00	0.689	ND	2.38	1.64		1
Acetonitrile	ND	0.200	0.082	ND	0.336	0.138		1
Trichlorofluoromethane	ND	0.200	0.069	ND	1.12	0.386		1
Isopropanol	ND	0.500	0.478	ND	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
Pentane	ND	0.200	0.066	ND	0.590	0.194		1
Ethyl ether	ND	0.200	0.074	ND	0.606	0.223		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	0.047	ND	1.52	0.141		1
Methylene chloride	ND	0.500	0.134	ND	1.74	0.466		1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	ND	0.200	0.056	ND	0.623	0.174		1
Freon-113	ND	0.200	0.066	ND	1.53	0.503		1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Vinyl acetate	ND	1.00	0.048	ND	3.52	0.169		1
Xylenes, total	ND	0.600	0.045	ND	0.869	0.197		1
2-Butanone	ND	0.500	0.048	ND	1.47	0.142		1
cis-1,2-Dichloroethene	ND	0.200	0.117	ND	0.793	0.464		1
Ethyl Acetate	ND	0.500	0.122	ND	1.80	0.440		1
Chloroform	ND	0.200	0.063	ND	0.977	0.309		1
Tetrahydrofuran	ND	0.500	0.057	ND	1.47	0.168		1
2,2-Dichloropropane	ND	0.200	0.046	ND	0.924	0.212		1
1,2-Dichloroethane	ND	0.200	0.060	ND	0.809	0.244		1
n-Hexane	ND	0.200	0.036	ND	0.705	0.128		1
Diisopropyl ether	ND	0.200	0.062	ND	0.836	0.260		1
tert-Butyl Ethyl Ether	ND	0.200	0.042	ND	0.836	0.176		1
1,2-Dichloroethene (total)	ND	1.00	0.064	ND	1.00	0.255		1
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
1,1-Dichloropropene	ND	0.200	0.046	ND	0.908	0.207		1
Benzene	ND	0.200	0.049	ND	0.639	0.156		1
Carbon tetrachloride	ND	0.200	0.050	ND	1.26	0.314		1
Cyclohexane	ND	0.200	0.037	ND	0.688	0.127		1
tert-Amyl Methyl Ether	ND	0.200	0.048	ND	0.836	0.199		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	0.056	ND	1.42	0.400		1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
2,2,4-Trimethylpentane	ND	0.200	0.036	ND	0.934	0.169		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
Heptane	ND	0.200	0.047	ND	0.820	0.193		1
cis-1,3-Dichloropropene	ND	0.200	0.041	ND	0.908	0.186		1
4-Methyl-2-pentanone	ND	0.500	0.042	ND	2.05	0.173		1
trans-1,3-Dichloropropene	ND	0.200	0.044	ND	0.908	0.198		1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	ND	0.200	0.052	ND	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
2-Hexanone	ND	0.200	0.065	ND	0.820	0.266		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Butyl acetate	ND	0.500	0.126	ND	2.38	0.599		1
Octane	ND	0.200	0.045	ND	0.934	0.208		1
Tetrachloroethene	ND	0.200	0.066	ND	1.36	0.444		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.056	ND	1.37	0.385		1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	ND	0.200	0.043	ND	0.869	0.188		1
p/m-Xylene	ND	0.400	0.091	ND	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	ND	0.200	0.043	ND	0.852	0.185		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	0.045	ND	0.869	0.197		1
1,2,3-Trichloropropane	ND	0.200	0.061	ND	1.21	0.368		1
Nonane	ND	0.200	0.046	ND	1.05	0.243		1
Isopropylbenzene	ND	0.200	0.049	ND	0.983	0.241		1
Bromobenzene	ND	0.200	0.061	ND	0.793	0.243		1
2-Chlorotoluene	ND	0.200	0.049	ND	1.04	0.252		1
n-Propylbenzene	ND	0.200	0.042	ND	0.983	0.206		1
4-Chlorotoluene	ND	0.200	0.056	ND	1.04	0.290		1
4-Ethyltoluene	ND	0.200	0.037	ND	0.983	0.182		1
1,3,5-Trimethylbenzene	ND	0.200	0.068	ND	0.983	0.332		1
tert-Butylbenzene	ND	0.200	0.042	ND	1.10	0.231		1
1,2,4-Trimethylbenzene	ND	0.200	0.037	ND	0.983	0.181		1
Decane	ND	0.200	0.040	ND	1.16	0.235		1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,3-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.377		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
sec-Butylbenzene	ND	0.200	0.043	ND	1.10	0.235		1
p-Isopropyltoluene	ND	0.200	0.052	ND	1.10	0.285		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
n-Butylbenzene	ND	0.200	0.044	ND	1.10	0.242		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.050	ND	1.93	0.478		1
Undecane	ND	0.200	0.043	ND	1.28	0.273		1
Dodecane	ND	0.200	0.066	ND	1.39	0.458		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	ND	0.200	0.089	ND	1.05	0.464		1
1,2,3-Trichlorobenzene	ND	0.200	0.072	ND	1.48	0.531		1
Hexachlorobutadiene	ND	0.200	0.053	ND	2.13	0.564		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2225888

Project Number: CANISTER QC BAT **Report Date:** 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/18/22 00:12
Analyst: TS

	ppbV			ug/m3				Dilution
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	0.018	ND	0.989	0.089		1
Chloromethane	ND	0.200	0.024	ND	0.413	0.050		1
Freon-114	ND	0.050	0.007	ND	0.349	0.050		1
Vinyl chloride	ND	0.020	0.007	ND	0.051	0.018		1
1,3-Butadiene	ND	0.020	0.010	ND	0.044	0.022		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.033		1
Chloroethane	ND	0.100	0.014	ND	0.264	0.036		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.299	ND	2.38	0.710		1
Trichlorofluoromethane	ND	0.050	0.010	ND	0.281	0.053		1
Acrylonitrile	ND	0.500	0.025	ND	1.09	0.053		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.033		1
Methylene chloride	ND	0.500	0.013	ND	1.74	0.046		1
Freon-113	ND	0.050	0.009	ND	0.383	0.067		1
trans-1,2-Dichloroethene	ND	0.020	0.008	ND	0.079	0.030		1
1,1-Dichloroethane	ND	0.020	0.007	ND	0.081	0.030		1
Methyl tert butyl ether	ND	0.200	0.008	ND	0.721	0.030		1
2-Butanone	ND	0.500	0.027	ND	1.47	0.080		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.038		1
Chloroform	ND	0.020	0.009	ND	0.098	0.044		1
1,2-Dichloroethane	ND	0.020	0.010	ND	0.081	0.039		1
1,1,1-Trichloroethane	ND	0.020	0.008	ND	0.109	0.045		1
Benzene	ND	0.100	0.005	ND	0.319	0.016		1
Carbon tetrachloride	ND	0.020	0.010	ND	0.126	0.063		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	0.005	ND	0.092	0.025		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.045		1
1,4-Dioxane	ND	0.100	0.032	ND	0.360	0.115		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.033		1
cis-1,3-Dichloropropene	ND	0.020	0.007	ND	0.091	0.032		1
4-Methyl-2-pentanone	ND	0.500	0.012	ND	2.05	0.049		1
trans-1,3-Dichloropropene	ND	0.020	0.007	ND	0.091	0.032		1
1,1,2-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Toluene	ND	0.100	0.014	ND	0.377	0.053		1
Dibromochloromethane	ND	0.020	0.009	ND	0.170	0.073		1
1,2-Dibromoethane	ND	0.020	0.008	ND	0.154	0.062		1
Tetrachloroethene	ND	0.020	0.008	ND	0.136	0.053		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.005	ND	0.137	0.036		1
Chlorobenzene	ND	0.100	0.006	ND	0.461	0.030		1
Ethylbenzene	ND	0.020	0.005	ND	0.087	0.021		1
p/m-Xylene	ND	0.040	0.019	ND	0.174	0.083		1
Bromoform	ND	0.020	0.007	ND	0.207	0.067		1
Styrene	ND	0.020	0.005	ND	0.085	0.021		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.006	ND	0.137	0.039		1
o-Xylene	ND	0.020	0.007	ND	0.087	0.029		1
Isopropylbenzene	ND	0.200	0.005	ND	0.983	0.026		1
4-Ethyltoluene	ND	0.020	0.004	ND	0.098	0.021		1
1,3,5-Trimethybenzene	ND	0.020	0.006	ND	0.098	0.028		1
1,2,4-Trimethylbenzene	ND	0.020	0.004	ND	0.098	0.021		1
Benzyl chloride	ND	0.100	0.007	ND	0.518	0.037		1
1,3-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.034		1
1,4-Dichlorobenzene	ND	0.020	0.005	ND	0.120	0.032		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	0.003	ND	1.10	0.018		1
p-Isopropyltoluene	ND	0.200	0.005	ND	1.10	0.025		1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.059		1
n-Butylbenzene	ND	0.200	0.005	ND	1.10	0.026		1
1,2,4-Trichlorobenzene	ND	0.050	0.030	ND	0.371	0.223		1
Naphthalene	ND	0.050	0.035	ND	0.262	0.184		1
1,2,3-Trichlorobenzene	ND	0.050	0.013	ND	0.371	0.100		1
Hexachlorobutadiene	ND	0.050	0.017	ND	0.533	0.181		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/18/22 20:56
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	0.058	ND	0.707	0.207		1
Propylene	ND	0.500	0.060	ND	0.861	0.103		1
Propane	ND	0.500	0.132	ND	0.902	0.238		1
Dichlorodifluoromethane	ND	0.200	0.058	ND	0.989	0.288		1
Chloromethane	ND	0.200	0.069	ND	0.413	0.142		1
Freon-114	ND	0.200	0.059	ND	1.40	0.413		1
Methanol	ND	5.00	1.84	ND	6.55	2.41		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	ND	0.200	0.067	ND	0.442	0.148		1
Butane	ND	0.200	0.065	ND	0.475	0.154		1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Ethanol	ND	5.00	0.733	ND	9.42	1.38		1
Dichlorofluoromethane	ND	0.200	0.081	ND	0.842	0.340		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	ND	0.500	0.060	ND	1.15	0.137		1
Acetone	ND	1.00	0.689	ND	2.38	1.64		1
Acetonitrile	ND	0.200	0.082	ND	0.336	0.138		1
Trichlorofluoromethane	ND	0.200	0.069	ND	1.12	0.386		1
Isopropanol	ND	0.500	0.478	ND	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
Pentane	ND	0.200	0.066	ND	0.590	0.194		1
Ethyl ether	ND	0.200	0.074	ND	0.606	0.223		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	0.047	ND	1.52	0.141		1
Methylene chloride	ND	0.500	0.134	ND	1.74	0.466		1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	ND	0.200	0.056	ND	0.623	0.174		1
Freon-113	ND	0.200	0.066	ND	1.53	0.503		1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Vinyl acetate	ND	1.00	0.048	ND	3.52	0.169		1
Xylenes, total	ND	0.600	0.045	ND	0.869	0.197		1
2-Butanone	ND	0.500	0.048	ND	1.47	0.142		1
cis-1,2-Dichloroethene	ND	0.200	0.117	ND	0.793	0.464		1
Ethyl Acetate	ND	0.500	0.122	ND	1.80	0.440		1
Chloroform	ND	0.200	0.063	ND	0.977	0.309		1
Tetrahydrofuran	ND	0.500	0.057	ND	1.47	0.168		1
2,2-Dichloropropane	ND	0.200	0.046	ND	0.924	0.212		1
1,2-Dichloroethane	ND	0.200	0.060	ND	0.809	0.244		1
n-Hexane	ND	0.200	0.036	ND	0.705	0.128		1
Diisopropyl ether	ND	0.200	0.062	ND	0.836	0.260		1
tert-Butyl Ethyl Ether	ND	0.200	0.042	ND	0.836	0.176		1
1,2-Dichloroethene (total)	ND	1.00	0.064	ND	1.00	0.255		1
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
1,1-Dichloropropene	ND	0.200	0.046	ND	0.908	0.207		1
Benzene	ND	0.200	0.049	ND	0.639	0.156		1
Carbon tetrachloride	ND	0.200	0.050	ND	1.26	0.314		1
Cyclohexane	ND	0.200	0.037	ND	0.688	0.127		1
tert-Amyl Methyl Ether	ND	0.200	0.048	ND	0.836	0.199		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	0.056	ND	1.42	0.400		1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
2,2,4-Trimethylpentane	ND	0.200	0.036	ND	0.934	0.169		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
Heptane	ND	0.200	0.047	ND	0.820	0.193		1
cis-1,3-Dichloropropene	ND	0.200	0.041	ND	0.908	0.186		1
4-Methyl-2-pentanone	ND	0.500	0.042	ND	2.05	0.173		1
trans-1,3-Dichloropropene	ND	0.200	0.044	ND	0.908	0.198		1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	ND	0.200	0.052	ND	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
2-Hexanone	ND	0.200	0.065	ND	0.820	0.266		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Butyl acetate	ND	0.500	0.126	ND	2.38	0.599		1
Octane	ND	0.200	0.045	ND	0.934	0.208		1
Tetrachloroethene	ND	0.200	0.066	ND	1.36	0.444		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.056	ND	1.37	0.385		1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	ND	0.200	0.043	ND	0.869	0.188		1
p/m-Xylene	ND	0.400	0.091	ND	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	ND	0.200	0.043	ND	0.852	0.185		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	0.045	ND	0.869	0.197		1
1,2,3-Trichloropropane	ND	0.200	0.061	ND	1.21	0.368		1
Nonane	ND	0.200	0.046	ND	1.05	0.243		1
Isopropylbenzene	ND	0.200	0.049	ND	0.983	0.241		1
Bromobenzene	ND	0.200	0.061	ND	0.793	0.243		1
2-Chlorotoluene	ND	0.200	0.049	ND	1.04	0.252		1
n-Propylbenzene	ND	0.200	0.042	ND	0.983	0.206		1
4-Chlorotoluene	ND	0.200	0.056	ND	1.04	0.290		1
4-Ethyltoluene	ND	0.200	0.037	ND	0.983	0.182		1
1,3,5-Trimethylbenzene	ND	0.200	0.068	ND	0.983	0.332		1
tert-Butylbenzene	ND	0.200	0.042	ND	1.10	0.231		1
1,2,4-Trimethylbenzene	ND	0.200	0.037	ND	0.983	0.181		1
Decane	ND	0.200	0.040	ND	1.16	0.235		1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,3-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.377		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
sec-Butylbenzene	ND	0.200	0.043	ND	1.10	0.235		1
p-Isopropyltoluene	ND	0.200	0.052	ND	1.10	0.285		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
n-Butylbenzene	ND	0.200	0.044	ND	1.10	0.242		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.050	ND	1.93	0.478		1
Undecane	ND	0.200	0.043	ND	1.28	0.273		1
Dodecane	ND	0.200	0.066	ND	1.39	0.458		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	ND	0.200	0.089	ND	1.05	0.464		1
1,2,3-Trichlorobenzene	ND	0.200	0.072	ND	1.48	0.531		1
Hexachlorobutadiene	ND	0.200	0.053	ND	2.13	0.564		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/18/22 20:56
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	0.018	ND	0.989	0.089		1
Chloromethane	ND	0.200	0.024	ND	0.413	0.050		1
Freon-114	ND	0.050	0.007	ND	0.349	0.050		1
Vinyl chloride	ND	0.020	0.007	ND	0.051	0.018		1
1,3-Butadiene	ND	0.020	0.010	ND	0.044	0.022		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.033		1
Chloroethane	ND	0.100	0.014	ND	0.264	0.036		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.299	ND	2.38	0.710		1
Trichlorofluoromethane	ND	0.050	0.010	ND	0.281	0.053		1
Acrylonitrile	ND	0.500	0.025	ND	1.09	0.053		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.033		1
Methylene chloride	ND	0.500	0.013	ND	1.74	0.046		1
Freon-113	ND	0.050	0.009	ND	0.383	0.067		1
trans-1,2-Dichloroethene	ND	0.020	0.008	ND	0.079	0.030		1
1,1-Dichloroethane	ND	0.020	0.007	ND	0.081	0.030		1
Methyl tert butyl ether	ND	0.200	0.008	ND	0.721	0.030		1
2-Butanone	ND	0.500	0.027	ND	1.47	0.080		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.038		1
Chloroform	ND	0.020	0.009	ND	0.098	0.044		1
1,2-Dichloroethane	ND	0.020	0.010	ND	0.081	0.039		1
1,1,1-Trichloroethane	ND	0.020	0.008	ND	0.109	0.045		1
Benzene	ND	0.100	0.005	ND	0.319	0.016		1
Carbon tetrachloride	ND	0.020	0.010	ND	0.126	0.063		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	0.005	ND	0.092	0.025		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.045		1
1,4-Dioxane	ND	0.100	0.032	ND	0.360	0.115		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.033		1
cis-1,3-Dichloropropene	ND	0.020	0.007	ND	0.091	0.032		1
4-Methyl-2-pentanone	ND	0.500	0.012	ND	2.05	0.049		1
trans-1,3-Dichloropropene	ND	0.020	0.007	ND	0.091	0.032		1
1,1,2-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Toluene	ND	0.100	0.014	ND	0.377	0.053		1
Dibromochloromethane	ND	0.020	0.009	ND	0.170	0.073		1
1,2-Dibromoethane	ND	0.020	0.008	ND	0.154	0.062		1
Tetrachloroethene	ND	0.020	0.008	ND	0.136	0.053		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.005	ND	0.137	0.036		1
Chlorobenzene	ND	0.100	0.006	ND	0.461	0.030		1
Ethylbenzene	ND	0.020	0.005	ND	0.087	0.021		1
p/m-Xylene	ND	0.040	0.019	ND	0.174	0.083		1
Bromoform	ND	0.020	0.007	ND	0.207	0.067		1
Styrene	ND	0.020	0.005	ND	0.085	0.021		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.006	ND	0.137	0.039		1
o-Xylene	ND	0.020	0.007	ND	0.087	0.029		1
Isopropylbenzene	ND	0.200	0.005	ND	0.983	0.026		1
4-Ethyltoluene	ND	0.020	0.004	ND	0.098	0.021		1
1,3,5-Trimethybenzene	ND	0.020	0.006	ND	0.098	0.028		1
1,2,4-Trimethylbenzene	ND	0.020	0.004	ND	0.098	0.021		1
Benzyl chloride	ND	0.100	0.007	ND	0.518	0.037		1
1,3-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.034		1
1,4-Dichlorobenzene	ND	0.020	0.005	ND	0.120	0.032		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	0.003	ND	1.10	0.018		1
p-Isopropyltoluene	ND	0.200	0.005	ND	1.10	0.025		1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.059		1
n-Butylbenzene	ND	0.200	0.005	ND	1.10	0.026		1
1,2,4-Trichlorobenzene	ND	0.050	0.030	ND	0.371	0.223		1
Naphthalene	ND	0.050	0.035	ND	0.262	0.184		1
1,2,3-Trichlorobenzene	ND	0.050	0.013	ND	0.371	0.100		1
Hexachlorobutadiene	ND	0.050	0.017	ND	0.533	0.181		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	91		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2227668-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2227668-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2227668-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2227668-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2227668-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2227668-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2227668-07A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2227668
Project Number:	30108678	**Report Date:**	06/17/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2227668
Project Number:	30108678	**Report Date:**	06/17/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2227668
Project Number:	30108678	**Report Date:**	06/17/22

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2227668
Project Number:	30108678	**Report Date:**	06/17/22

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 5/26/22

ALPHA Job #: L2227668

Client Information

Client: Arcadis
Address: 1 Harried Way Ste 5
Hillsborough NJ
Phone: 908-526-1616
Fax: Project Mgr: Matt.Hilinski@arcadis.com
Email: Larry.Grant@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alkemade 51st Street
Project Location: Philadelphia PA
Project #: 30108678
Project Manager: Larry Grant
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments: PADEP TO-15 list

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15 – PADEP LIST	TO-15 SIM	APH (Subject Non-petroleum HOCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
27668-01	SG-1	5/25/22	722	738	-30.34	-4.93	SV	AH	3.7	364	01135	Y					
02	SG-2		740	803	-30.18	-4.91			2.7	346	0376	Y					
03	SG-3		837	854	-30.01	-4.99				0374	01167	Y					
04	SG-4		905	921	-29.84	-5.02				2079	0947	Y					
05	SG-5		944	1006	-30.11	-4.37				3159	01462	Y					
06	SG-6		1024	1038	-28.24	-4.74				5337	0157	Y					
07	SG-7		1045	1110	-29.21	-4.86				403	CK78	Y					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: CS

Relinquished By:	Date/Time	Received By:	Date/Time:
5/26/22 0330			
Matt Hilinski	5/25/22 1158		5/25/22 1158
	5/25/22 2100		5/25/22 2100
	5/25/22		5/25/22 2350

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L2236752
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST ST
Project Number:	30108678.03B
Report Date:	07/25/22

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Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2236752
Report Date: 07/25/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2236752-01	MW-1	WATER	PHILA, PA	07/11/22 11:00	07/11/22
L2236752-02	MW-2	WATER	PHILA, PA	07/11/22 12:10	07/11/22
L2236752-03	MW-3	WATER	PHILA, PA	07/11/22 09:40	07/11/22
L2236752-04	MW-4	WATER	PHILA, PA	07/11/22 12:45	07/11/22
L2236752-05	MW-5	WATER	PHILA, PA	07/11/22 10:15	07/11/22
L2236752-06	MW-7	WATER	PHILA, PA	07/11/22 13:30	07/11/22
L2236752-07	MW-8	WATER	PHILA, PA	07/11/22 09:15	07/11/22
L2236752-08	MW-9	WATER	PHILA, PA	07/11/22 11:45	07/11/22
L2236752-09	DUP-1	WATER	PHILA, PA	07/11/22 00:00	07/11/22
L2236752-10	FIELD BLANK	WATER	PHILA, PA	07/11/22 13:00	07/11/22
L2236752-11	TRIP BLANK	WATER	PHILA, PA	07/11/22 00:00	07/11/22

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2236752
Project Number:	30108678.03B	**Report Date:**	07/25/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2236752
Project Number:	30108678.03B	**Report Date:**	07/25/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2236752-04 and -08: The pH was greater than two; however, the sample was analyzed within the method required holding time.

L2236752-06D: The sample has elevated detection limits due to the dilution required by the sample matrix (foam).

L2236752-07D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Volatile Organics by SIM

L2236752-04 and -08: The pH was greater than two; however, the sample was analyzed within the method required holding time.

L2236752-06D: The sample has elevated detection limits due to the dilution required by the sample matrix (foam).

L2236752-07D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 07/25/22

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-01
Client ID: MW-1
Sample Location: PHILA, PA

Date Collected: 07/11/22 11:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 11:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	8.2	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.68		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	8.4	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-01
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 07/11/22 11:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.60	J	ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	1.7		ug/l	1.0	0.33	1
o-Xylene	0.48	J	ug/l	1.0	0.39	1
Xylenes, Total	2.2	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	1.8		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.52	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	1.1		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	77		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	80		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-01
Client ID: MW-1
Sample Location: PHILA, PA

Date Collected: 07/11/22 11:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 11:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	70		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-02
Client ID: MW-2
Sample Location: PHILA, PA

Date Collected: 07/11/22 12:10
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 12:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	0.45	J	ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	3.1	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	2.1		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	2.8	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	2.3	J	ug/l	5.0	1.9	1
Benzene	3.2		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	3.1	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-02
Client ID: MW-2
Sample Location: PHILA, PA
Date Collected: 07/11/22 12:10
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.6		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.41	J	ug/l	0.50	0.17	1
p/m-Xylene	2.1		ug/l	1.0	0.33	1
o-Xylene	4.5		ug/l	1.0	0.39	1
Xylenes, Total	6.6		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.38	J	ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	3.7		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	3.1		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	6.8		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-02
Client ID: MW-2
Sample Location: PHILA, PA
Date Collected: 07/11/22 12:10
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 12:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
4-Bromofluorobenzene	84		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-03
Client ID: MW-3
Sample Location: PHILA, PA

Date Collected: 07/11/22 09:40
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 12:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	3.4	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 07/11/22 09:40
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.34	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-03
Client ID: MW-3
Sample Location: PHILA, PA

Date Collected: 07/11/22 09:40
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 12:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-04
Client ID: MW-4
Sample Location: PHILA, PA

Date Collected: 07/11/22 12:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 13:05
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	8.4		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 07/11/22 12:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.37	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	0.30	J	ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 07/11/22 12:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 13:05
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-05
Client ID: MW-5
Sample Location: PHILA, PA

Date Collected: 07/11/22 10:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 13:29
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 07/11/22 10:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	107		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-05
Client ID: MW-5
Sample Location: PHILA, PA

Date Collected: 07/11/22 10:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 13:29
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-06 D
Client ID: MW-7
Sample Location: PHILA, PA

Date Collected: 07/11/22 13:30
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 14:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	25	1.2	5
Chloromethane	ND		ug/l	12	1.0	5
Vinyl chloride	ND		ug/l	5.0	0.36	5
Bromomethane	ND		ug/l	5.0	1.3	5
Chloroethane	ND		ug/l	5.0	0.67	5
Trichlorofluoromethane	ND		ug/l	12	0.80	5
1,1-Dichloroethene	ND		ug/l	2.5	0.84	5
Carbon disulfide	ND		ug/l	25	1.5	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	12	0.74	5
Methylene chloride	ND		ug/l	12	3.4	5
Acetone	12	J	ug/l	25	7.3	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	0.82	5
Methyl Acetate	ND		ug/l	10	1.2	5
Methyl tert butyl ether	ND		ug/l	5.0	0.83	5
1,1-Dichloroethane	ND		ug/l	3.8	1.0	5
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.94	5
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.82	5
Cyclohexane	2.6	J	ug/l	50	1.4	5
Bromochloromethane	ND		ug/l	12	0.76	5
Chloroform	ND		ug/l	3.8	1.1	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,1,1-Trichloroethane	ND		ug/l	2.5	0.79	5
2-Butanone	ND		ug/l	25	9.7	5
Benzene	37		ug/l	2.5	0.80	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
Methyl cyclohexane	3.3	J	ug/l	50	2.0	5
Trichloroethene	ND		ug/l	2.5	0.88	5
1,2-Dichloropropane	ND		ug/l	5.0	0.68	5

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-06 D
Client ID: MW-7
Sample Location: PHILA, PA

Date Collected: 07/11/22 13:30
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	2.5	0.96	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
Toluene	3.3	J	ug/l	3.8	1.0	5
Tetrachloroethene	ND		ug/l	2.5	0.90	5
4-Methyl-2-pentanone	ND		ug/l	25	2.1	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
1,3-Dichloropropene, Total	ND		ug/l	2.5	0.72	5
1,1,2-Trichloroethane	ND		ug/l	3.8	0.72	5
Dibromochloromethane	ND		ug/l	2.5	0.74	5
1,2-Dibromoethane	ND		ug/l	10	0.96	5
2-Hexanone	ND		ug/l	25	2.6	5
Chlorobenzene	ND		ug/l	2.5	0.89	5
Ethylbenzene	2.4	J	ug/l	2.5	0.84	5
p/m-Xylene	2.8	J	ug/l	5.0	1.7	5
o-Xylene	ND		ug/l	5.0	2.0	5
Xylenes, Total	2.8	J	ug/l	5.0	1.7	5
Styrene	ND		ug/l	5.0	1.8	5
Bromoform	ND		ug/l	10	1.2	5
Isopropylbenzene	0.94	J	ug/l	2.5	0.94	5
1,3,5-Trimethylbenzene	3.8	J	ug/l	12	1.1	5
1,2,4-Trimethylbenzene	9.8	J	ug/l	12	0.96	5
1,3-Dichlorobenzene	ND		ug/l	12	0.93	5
1,4-Dichlorobenzene	ND		ug/l	12	0.94	5
1,2-Dichlorobenzene	ND		ug/l	12	0.92	5
1,2-Dibromo-3-chloropropane	ND		ug/l	12	1.8	5
1,2,4-Trichlorobenzene	ND		ug/l	12	1.1	5
Naphthalene	4.2	J	ug/l	5.0	1.1	5
1,2,3-Trichlorobenzene	ND		ug/l	12	1.2	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-06 D
Client ID: MW-7
Sample Location: PHILA, PA

Date Collected: 07/11/22 13:30
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 14:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	15	5.4	5
1,1,2,2-Tetrachloroethane	ND		ug/l	0.250	0.029	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
4-Bromofluorobenzene	85		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-07 D
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 07/11/22 09:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 15:05
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	0.49	2
Chloromethane	ND		ug/l	5.0	0.40	2
Vinyl chloride	ND		ug/l	2.0	0.14	2
Bromomethane	ND		ug/l	2.0	0.51	2
Chloroethane	ND		ug/l	2.0	0.27	2
Trichlorofluoromethane	ND		ug/l	5.0	0.32	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
Carbon disulfide	ND		ug/l	10	0.60	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	5.0	0.30	2
Methylene chloride	ND		ug/l	5.0	1.4	2
Acetone	ND		ug/l	10	2.9	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Methyl tert butyl ether	ND		ug/l	2.0	0.33	2
1,1-Dichloroethane	ND		ug/l	1.5	0.42	2
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.37	2
1,2-Dichloroethene, Total	ND		ug/l	1.0	0.33	2
Cyclohexane	8.5	J	ug/l	20	0.54	2
Bromochloromethane	ND		ug/l	5.0	0.30	2
Chloroform	ND		ug/l	1.5	0.44	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,1,1-Trichloroethane	ND		ug/l	1.0	0.32	2
2-Butanone	13		ug/l	10	3.9	2
Benzene	ND		ug/l	1.0	0.32	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
Methyl cyclohexane	14	J	ug/l	20	0.79	2
Trichloroethene	ND		ug/l	1.0	0.35	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-07 D
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 07/11/22 09:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	1.0	0.38	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
Toluene	ND		ug/l	1.5	0.41	2
Tetrachloroethene	ND		ug/l	1.0	0.36	2
4-Methyl-2-pentanone	ND		ug/l	10	0.83	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
1,3-Dichloropropene, Total	ND		ug/l	1.0	0.29	2
1,1,2-Trichloroethane	ND		ug/l	1.5	0.29	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,2-Dibromoethane	ND		ug/l	4.0	0.39	2
2-Hexanone	ND		ug/l	10	1.0	2
Chlorobenzene	ND		ug/l	1.0	0.36	2
Ethylbenzene	ND		ug/l	1.0	0.33	2
p/m-Xylene	ND		ug/l	2.0	0.66	2
o-Xylene	ND		ug/l	2.0	0.78	2
Xylenes, Total	ND		ug/l	2.0	0.66	2
Styrene	ND		ug/l	2.0	0.72	2
Bromoform	ND		ug/l	4.0	0.50	2
Isopropylbenzene	30		ug/l	1.0	0.37	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	0.43	2
1,2,4-Trimethylbenzene	0.73	J	ug/l	5.0	0.38	2
1,3-Dichlorobenzene	ND		ug/l	5.0	0.37	2
1,4-Dichlorobenzene	ND		ug/l	5.0	0.37	2
1,2-Dichlorobenzene	0.87	J	ug/l	5.0	0.37	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	0.71	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.44	2
Naphthalene	1.3	J	ug/l	2.0	0.43	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	0.47	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	92		70-130

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-07 D
Client ID: MW-8
Sample Location: PHILA, PA

Date Collected: 07/11/22 09:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 15:05
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	6.0	2.1	2
1,1,2,2-Tetrachloroethane	ND		ug/l	0.100	0.011	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-08
Client ID: MW-9
Sample Location: PHILA, PA

Date Collected: 07/11/22 11:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 11:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	96		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	15		ug/l	5.0	1.9	1
Benzene	1.3		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	1.8	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-08
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 07/11/22 11:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	14		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	2.1	J	ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	11		ug/l	0.50	0.17	1
p/m-Xylene	88		ug/l	1.0	0.33	1
o-Xylene	76		ug/l	1.0	0.39	1
Xylenes, Total	160		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	4.9		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	34		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	100		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	41		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	73		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-08
Client ID: MW-9
Sample Location: PHILA, PA

Date Collected: 07/11/22 11:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 11:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
4-Bromofluorobenzene	84		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-09
Client ID: DUP-1
Sample Location: PHILA, PA

Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 13:53
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 13:53
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 13:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 07:51
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 13:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 13:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 07:51
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-11
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 07:27
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-11
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-11
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 07:27
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/22 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1663966-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/22 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1663966-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/22 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1663966-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-11 Batch: WG1663973-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
4-Bromofluorobenzene	90		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2236752
Report Date: 07/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1663966-3 WG1663966-4								
Dichlorodifluoromethane	100		99		36-147	1		20
Chloromethane	94		91		64-130	3		20
Vinyl chloride	120		110		55-140	9		20
Bromomethane	81		97		39-139	18		20
Chloroethane	120		120		55-138	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,1-Dichloroethene	110		110		61-145	0		20
Carbon disulfide	110		100		51-130	10		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		70-130	0		20
Methylene chloride	110		100		70-130	10		20
Acetone	120		100		58-148	18		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Methyl Acetate	110		100		70-130	10		20
Methyl tert butyl ether	110		100		63-130	10		20
1,1-Dichloroethane	110		100		70-130	10		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Cyclohexane	100		100		70-130	0		20
Bromochloromethane	120		110		70-130	9		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
2-Butanone	130		110		63-138	17		20
Benzene	110		110		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2236752
Report Date: 07/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1663966-3 WG1663966-4								
1,2-Dichloroethane	100		95		70-130	5		20
Methyl cyclohexane	110		110		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichloropropane	110		100		70-130	10		20
Bromodichloromethane	110		100		67-130	10		20
cis-1,3-Dichloropropene	110		100		70-130	10		20
Toluene	110		110		70-130	0		20
Tetrachloroethene	110		110		70-130	0		20
4-Methyl-2-pentanone	100		100		59-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Dibromochloromethane	110		100		63-130	10		20
1,2-Dibromoethane	110		110		70-130	0		20
2-Hexanone	120		110		57-130	9		20
Chlorobenzene	110		110		75-130	0		20
Ethylbenzene	110		110		70-130	0		20
p/m-Xylene	120		120		70-130	0		20
o-Xylene	120		120		70-130	0		20
Styrene	115		115		70-130	0		20
Bromoform	100		100		54-136	0		20
Isopropylbenzene	110		110		70-130	0		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2236752

Report Date: 07/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1663966-3 WG1663966-4								
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	110		100		41-144	10		20
1,2,4-Trichlorobenzene	98		98		70-130	0		20
Naphthalene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		94		70-130
Toluene-d8	100		104		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	103		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2236752
Report Date: 07/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-11 Batch: WG1663973-3 WG1663973-4								
1,4-Dioxane	100		110		70-130	10		25
1,1,2,2-Tetrachloroethane	105		111		70-130	6		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		95		70-130
4-Bromofluorobenzene	89		89		70-130

METALS

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-01
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 07/11/22 11:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 13:52	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-02
Client ID: MW-2
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 07/11/22 12:10
Date Received: 07/11/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 13:57	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 07/11/22 09:40
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/16/22 09:16	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-04
Client ID: MW-4
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 07/11/22 12:45
Date Received: 07/11/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.5060	J	ug/l	1.000	0.3430	1	07/12/22 20:00	07/16/22 09:21	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 07/11/22 10:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 14:29	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-06
Client ID: MW-7
Sample Location: PHILA, PA
Date Collected: 07/11/22 13:30
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.5604	J	ug/l	1.000	0.3430	1	07/12/22 20:00	07/16/22 09:26	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-07
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 07/11/22 09:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 14:40	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-08
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 07/11/22 11:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	27.70		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 14:45	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 14:50	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 13:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 14:18	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1661934-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 13:09	1,6020B	SV

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2236752

Report Date: 07/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1661934-2								
Lead, Dissolved	101		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2236752
Report Date: 07/25/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1661934-3 WG1661934-4 QC Sample: L2233915-02 Client ID: MS Sample												
Lead, Dissolved	ND	530	526.0	99		531.3	100		75-125	1		20

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2236752
Report Date: 07/25/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2236752-01A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-01B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-01C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-01D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-02A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-02B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-02C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-02D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-03A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-03B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-03C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-03D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-04A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-04B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-04C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-04D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-05A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-05B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-05C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-05D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-06A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-06B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-06C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2236752
Report Date: 07/25/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2236752-06D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-07A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-07B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-07C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-07D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-08A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-08B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-08C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-08D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-09A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-09B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-09C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-09D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-10A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-10B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-10C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-10D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-11A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-11B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2236752
Project Number:	30108678.03B	**Report Date:**	07/25/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2236752
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2236752
Project Number:	30108678.03B	**Report Date:**	07/25/22

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2236752
Project Number:	30108678.03B	**Report Date:**	07/25/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 7/12/22

ALPHA Job #: L2236752

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Arcadis

Address: 1 Hartford Way Ste 4
Hillsborough NJ

Phone: 908-526-1122

Fax:

Email: Larry.GrantQarcadis.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Millstone 61st St

Project Location: Philly PA

Project #: 30086548.07B

Project Manager: Larry Grant

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: VOC + 15 Dissolved Lead

SAMPLE HANDLING

Filtration
☒ Done for Lead
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	Dissolved Lead	Sample Specific Comments	TOTAL # BOTTLES
36752-01	MW-1	7/11/22	1110	AQ	MDH/MA	X	X		4
-02	MW-2		1210			X	X		
-03	MW-3		945			X	X		
-04	MW-4		1245			X	X		
-05	MW-5		1015			X	X		
-06	MW-7		1325			X	X		
-07	MW-8		915			X	X		
-08	MW-9		1145			X	X		
-09	DUP1		X			X	X		
-10	Field Blank	↓	1300	↓	↓	X	X		

Container Type	A,V	P
Preservative	A	E

7/12/22 0220

Relinquished By:	Date/Time	Received By:	Date/Time
Mike N. Tinch	7/11/22 1430	[illegible] AAL	07.11.22 14:25
[illegible]	07.11.22 1800	[illegible]	7/11 [illegible]
[illegible]	7/11/22 2100	[illegible]	7/11/22 2100

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/12/22

ALPHA Job #: L2236752

Client Information

Client: Aradigm

Address: 1 Harvard Way Ste A
Hillsborough, NJ

Phone: 908-526-1111

Fax:

Email: Larry.Brandt@aradigm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Aligner 5151 C1

Project Location: Phily, Pa

Project #: 30108678038

Project Manager: Larry Brandt

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: VOC-PL

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
36752-11	Trip Blank		—	Aq	LG	X	2

Container Type	HV
Preservative	B

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hitchcock	7/11/22 1130	[illegible]	07/11/22 1425
[illegible]	07/11/22 1500	[illegible]	7/11 1600
[illegible]	7/11/22 2100	[illegible]	7/11/22 2100

7/12/22 0220

7/12/22 0220

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L2314083
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST ST
Project Number:	30108678
Report Date:	04/04/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2314083-01	2040-P2 (9.5-10)	SOIL	PHILA, PA	03/17/23 09:15	03/17/23
L2314083-02	1043-P4 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:45	03/17/23
L2314083-03	1043-P5 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:50	03/17/23
L2314083-04	SB-304 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:20	03/17/23
L2314083-05	SB-304 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:20	03/17/23
L2314083-06	SB-305 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:35	03/17/23
L2314083-07	SB-305 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:35	03/17/23
L2314083-08	SB-306 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:55	03/17/23
L2314083-09	SB-306 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:55	03/17/23
L2314083-10	SB-307 (5.5-6)	SOIL	PHILA, PA	03/17/23 11:30	03/17/23
L2314083-11	SB-308 (5.5-6)	SOIL	PHILA, PA	03/17/23 11:20	03/17/23
L2314083-12	SB-309 (4.5-5)	SOIL	PHILA, PA	03/17/23 11:15	03/17/23
L2314083-13	SB-310 (8.5-9)	SOIL	PHILA, PA	03/17/23 10:20	03/17/23
L2314083-14	SB-311 (7.5-8)	SOIL	PHILA, PA	03/17/23 10:25	03/17/23
L2314083-15	SB-312 (4.5-5)	SOIL	PHILA, PA	03/17/23 11:00	03/17/23
L2314083-16	SB-313 (7.5-8)	SOIL	PHILA, PA	03/17/23 10:40	03/17/23
L2314083-17	SB-314 (7.5-8)	SOIL	PHILA, PA	03/17/23 10:00	03/17/23
L2314083-18	SB-314 (2.5-3)	SOIL	PHILA, PA	03/17/23 10:00	03/17/23
L2314083-19	SB-315 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:30	03/17/23
L2314083-20	SB-315 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:30	03/17/23
L2314083-21	SB-316 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:25	03/17/23
L2314083-22	SB-316 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:25	03/17/23
L2314083-23	DUP-1	SOIL	PHILA, PA	03/17/23 00:00	03/17/23
L2314083-24	FIELD BLANK	WATER	PHILA, PA	03/17/23 12:45	03/17/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2314083-25	TRIP BLANK	WATER	PHILA, PA	03/16/23 00:00	03/17/23

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2314083
Project Number:	30108678	**Report Date:**	04/04/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2314083
Project Number:	30108678	**Report Date:**	04/04/23

Case Narrative (continued)

Report Submission

April 04, 2023: This final report includes the results of all requested analyses.

March 27, 2023: This preliminary report includes the results of the following analyses:

L2314083-07 and -19: Total Lead

March 22, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2314083-14: The collection date and time on the chain of custody was 17-MAR-23 10:30; however, the collection date/time on the container label was 17-MAR-23 10:25. At the client's request, the collection date/time is reported as 17-MAR-23 10:25.

L2314083-22: The collection date on the chain of custody was 17-MAR-23; however, the collection date on the container label was 16-MAR-23. At the client's request, the collection date/time is reported as 17-MAR-23 09:25.

Volatile Organics

L2314083-13: One or more of the internal standard recoveries are outside the acceptance criteria; however, the internal standards are within criteria for the target compound; therefore, the results are reported.

Total Metals

L2314083-01: The sample has an elevated detection limit due to the dilution required by the sample matrix. The WG1758367-3 MS recovery, performed on L2314083-07, is outside the acceptance criteria for lead (172%). A post digestion spike was performed and was within acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 04/04/23

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-13
Client ID: SB-310 (8.5-9)
Sample Location: PHILA, PA
Date Collected: 03/17/23 10:20
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/20/23 13:47
Analyst: AJK
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00080	0.00026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	110		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-14
Client ID: SB-311 (7.5-8)
Sample Location: PHILA, PA
Date Collected: 03/17/23 10:25
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/20/23 14:08
Analyst: AJK
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00064	0.00021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-24
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 03/17/23 12:45
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/20/23 21:11
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	110		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-25
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 03/16/23 00:00
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/20/23 21:36
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	113		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/20/23 10:41
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 13-14 Batch: WG1756974-5					
Benzene	ND		mg/kg	0.00050	0.00017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/20/23 20:21
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 24-25 Batch: WG1757144-5					
Benzene	ND		ug/l	0.50	0.16

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2314083

Report Date: 04/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 13-14 Batch: WG1756974-3 WG1756974-4								
Benzene	88		92		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		107		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	103		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2314083

Report Date: 04/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 24-25 Batch: WG1757144-3 WG1757144-4								
Benzene	93		95		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		94		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	98		101		70-130

SEMIVOLATILES

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-11
Client ID: SB-308 (5.5-6)
Sample Location: PHILA, PA

Date Collected: 03/17/23 11:20
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E-SIM
Analytical Date: 03/22/23 09:49
Analyst: JJW
Percent Solids: 61%

Extraction Method: EPA 3546
Extraction Date: 03/21/23 14:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.055	0.015	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		25-120
Phenol-d6	35		10-120
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	52		10-136
4-Terphenyl-d14	47		18-120

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-24
Client ID: FIELD BLANK
Sample Location: PHILA, PA

Date Collected: 03/17/23 12:45
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/21/23 16:17
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/21/23 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	103		10-120
4-Terphenyl-d14	88		41-149

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 03/21/23 16:00
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/21/23 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 24 Batch: WG1756901-1					
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	87		41-149

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 03/22/23 09:33
Analyst: JJW

Extraction Method: EPA 3546
Extraction Date: 03/21/23 14:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 11 Batch: WG1757105-1					
Bis(2-chloroethyl)ether	ND		mg/kg	0.033	0.0092

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	59		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2314083

Report Date: 04/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 24 Batch: WG1756901-2 WG1756901-3								
Bis(2-chloroethyl)ether	63		64		40-140	2		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	66		64		21-120
Phenol-d6	62		61		10-120
Nitrobenzene-d5	82		83		23-120
2-Fluorobiphenyl	75		76		15-120
2,4,6-Tribromophenol	112		115		10-120
4-Terphenyl-d14	74		78		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 11 Batch: WG1757105-2 WG1757105-3								
Bis(2-chloroethyl)ether	64		59		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		66		25-120
Phenol-d6	72		68		10-120
Nitrobenzene-d5	78		73		23-120
2-Fluorobiphenyl	68		65		30-120
2,4,6-Tribromophenol	68		67		10-136
4-Terphenyl-d14	64		62		18-120

METALS

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-01
Client ID: 2040-P2 (9.5-10)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:15
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	3.43	J	mg/kg	13.7	0.736	5	03/21/23 05:25	03/21/23 17:54	EPA 3050B	1,6010D	DHL

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-02
Client ID: 1043-P4 (7.5-8)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:45
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	56.0		mg/kg	2.47	0.132	1	03/21/23 05:25	03/21/23 13:07	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-03
Client ID: 1043-P5 (7.5-8)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:50
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	39.8		mg/kg	2.76	0.148	1	03/21/23 05:25	03/21/23 13:12	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Lab Number: L2314083
Project Number: 30108678
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-04
Client ID: SB-304 (2.5-3)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:20
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	15.6		mg/kg	2.47	0.132	1	03/21/23 05:25	03/21/23 13:16	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-06
Client ID: SB-305 (2.5-3)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/17/23 09:35
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	602		mg/kg	2.38	0.128	1	03/21/23 05:25	03/21/23 13:21	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Lab Number: L2314083
Project Number: 30108678
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-07
Client ID: SB-305 (7.5-8)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:35
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	37.0		mg/kg	2.27	0.122	1	03/24/23 08:35	03/26/23 11:35	EPA 3050B	1,6010D	EGW

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-08
Client ID: SB-306 (2.5-3)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:55
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	11.6		mg/kg	2.54	0.136	1	03/21/23 05:25	03/21/23 13:26	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-10
Client ID: SB-307 (5.5-6)
Sample Location: PHILA, PA
Date Collected: 03/17/23 11:30
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	7.56		mg/kg	2.21	0.119	1	03/21/23 05:25	03/21/23 13:31	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Lab Number: L2314083
Project Number: 30108678
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-12
Client ID: SB-309 (4.5-5)
Sample Location: PHILA, PA
Date Collected: 03/17/23 11:15
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	87.4		mg/kg	2.16	0.116	1	03/21/23 05:25	03/21/23 13:35	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-19
Client ID: SB-315 (2.5-3)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:30
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	41.6		mg/kg	2.52	0.135	1	03/24/23 08:35	03/26/23 11:19	EPA 3050B	1,6010D	EGW

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-23
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 03/17/23 00:00
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	919		mg/kg	2.48	0.133	1	03/21/23 05:25	03/21/23 13:40	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-24
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 03/17/23 12:45
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/19/23 12:31	03/19/23 20:25	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 24 Batch: WG1756270-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	03/19/23 12:31	03/19/23 18:55	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04,06,08,10,12,23 Batch: WG1756810-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	03/21/23 05:25	03/21/23 10:51	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 07,19 Batch: WG1758367-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	03/24/23 08:35	03/26/23 11:10	1,6010D	EGW

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2314083

Report Date: 04/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 24 Batch: WG1756270-2								
Lead, Total	102		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-04,06,08,10,12,23 Batch: WG1756810-2 SRM Lot Number: D116-540								
Lead, Total	97		-		83-117	-		
Total Metals - Mansfield Lab Associated sample(s): 07,19 Batch: WG1758367-2 SRM Lot Number: D116-540								
Lead, Total	103		-		83-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 24 QC Batch ID: WG1756270-3 QC Sample: L2314101-01 Client ID: MS Sample												
Lead, Total	ND	530	511.0	96		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-04,06,08,10,12,23 QC Batch ID: WG1756810-3 QC Sample: L2314284-01 Client ID: MS Sample												
Lead, Total	5.18	50.3	52.8	95		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 07,19 QC Batch ID: WG1758367-3 QC Sample: L2314083-07 Client ID: SB-305 (7.5-8)												
Lead, Total	37.0	48.1	120	**172**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2314083

Report Date: 04/04/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 24 QC Batch ID: WG1756270-4 QC Sample: L2314101-01 Client ID: DUP Sample						
Lead, Total	ND	ND	ug/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-04,06,08,10,12,23 QC Batch ID: WG1756810-4 QC Sample: L2314284-01 Client ID: DUP Sample						
Lead, Total	5.18	5.07	mg/kg	2		20
Total Metals - Mansfield Lab Associated sample(s): 07,19 QC Batch ID: WG1758367-4 QC Sample: L2314083-07 Client ID: SB-305 (7.5-8)						
Lead, Total	37.0	36.9	mg/kg	0		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-01
Client ID: 2040-P2 (9.5-10)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:15
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.7		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-02
Client ID: 1043-P4 (7.5-8)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:45
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.7		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-03
Client ID: 1043-P5 (7.5-8)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:50
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.6		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-04
Client ID: SB-304 (2.5-3)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:20
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-06
Client ID: SB-305 (2.5-3)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:35
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-07
Client ID: SB-305 (7.5-8)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:35
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	03/24/23 08:28	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-08
Client ID: SB-306 (2.5-3)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:55
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.1		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-10
Client ID: SB-307 (5.5-6)
Sample Location: PHILA, PA

Date Collected: 03/17/23 11:30
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-11
Client ID: SB-308 (5.5-6)
Sample Location: PHILA, PA

Date Collected: 03/17/23 11:20
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.6		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-12
Client ID: SB-309 (4.5-5)
Sample Location: PHILA, PA

Date Collected: 03/17/23 11:15
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-13
Client ID: SB-310 (8.5-9)
Sample Location: PHILA, PA

Date Collected: 03/17/23 10:20
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.2		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-14
Client ID: SB-311 (7.5-8)
Sample Location: PHILA, PA

Date Collected: 03/17/23 10:25
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-19
Client ID: SB-315 (2.5-3)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/23 09:30
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.3		%	0.100	NA	1	-	03/24/23 08:28	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-23
Client ID: DUP-1
Sample Location: PHILA, PA

Date Collected: 03/17/23 00:00
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.4		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2314083

Report Date: 04/04/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04,06,08,10-14,23 QC Batch ID: WG1756102-1 QC Sample: L2314150-01 Client ID: DUP Sample						
Solids, Total	95.8	96.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 07,19 QC Batch ID: WG1758382-1 QC Sample: L2315307-01 Client ID: DUP Sample						
Solids, Total	88.0	90.7	%	3		20

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2314083-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-01B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-02B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-03B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-04B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-05A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-05B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-06B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-07A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-07B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-08B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-09A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-09B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-10B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-11A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PA-8270SIM(14)
L2314083-11B	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		TS(7)
L2314083-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2314083-12B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-13A	5 gram Encore Sampler	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-13B	5 gram Encore Sampler	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-13C	5 gram Encore Sampler	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-13D	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-13E	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-13F	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-13X	Vial MeOH preserved split	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-13Y	Vial Water preserved split	A	NA		4.0	Y	Absent	18-MAR-23 13:32	PA-8260HLW-BTEX(14)
L2314083-13Z	Vial Water preserved split	A	NA		4.0	Y	Absent	18-MAR-23 13:32	PA-8260HLW-BTEX(14)
L2314083-14A	5 gram Encore Sampler	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-14B	5 gram Encore Sampler	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-14C	5 gram Encore Sampler	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-14D	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-14E	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		HOLD-8270(14)
L2314083-14F	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		HOLD-8270(14)
L2314083-14G	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-14H	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-14X	Vial MeOH preserved split	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-14Y	Vial Water preserved split	A	NA		4.0	Y	Absent	18-MAR-23 13:32	PA-8260HLW-BTEX(14)
L2314083-14Z	Vial Water preserved split	A	NA		4.0	Y	Absent	18-MAR-23 13:32	PA-8260HLW-BTEX(14)
L2314083-15A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-15B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-16A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-16B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-17A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-17B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-18A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2314083-18B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-19A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-19B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-20A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-20B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-21A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-21B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-22A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-22B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-23A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-23B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-24A	Vial HCl preserved	A	NA		4.0	Y	Absent		PA-8260-BTEX(14)
L2314083-24B	Vial HCl preserved	A	NA		4.0	Y	Absent		PA-8260-BTEX(14)
L2314083-24C	Vial HCl preserved	A	NA		4.0	Y	Absent		PA-8260-BTEX(14)
L2314083-24D	Amber 250ml unpreserved	A	7	7	4.0	Y	Absent		PA-8270SIM-LVI(7)
L2314083-24E	Amber 250ml unpreserved	A	7	7	4.0	Y	Absent		PA-8270SIM-LVI(7)
L2314083-24F	Plastic 250ml HNO3 preserved	A	<2	<2	4.0	Y	Absent		PB-6020T-PPB(180)
L2314083-25A	Vial HCl preserved	A	NA		4.0	Y	Absent		PA-8260-BTEX(14)
L2314083-25B	Vial HCl preserved	A	NA		4.0	Y	Absent		PA-8260-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2314083
Project Number:	30108678	**Report Date:**	04/04/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2314083
Project Number:	30108678	**Report Date:**	04/04/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2314083
Project Number:	30108678	**Report Date:**	04/04/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2314083
Project Number:	30108678	**Report Date:**	04/04/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 3

Date Rec'd in Lab: 3/18/23

ALPHA Job #: L2314083

Client Information

Client: ARCADIS

Address: 1 Harvard Mill Sq Ste 5 Hillsborough NJ

Phone: 908-526-1005

Fax:

Email: Larry.Grant@arcadis.com

Project Information

Project Name: Allegro 51st St

Project Location: Phila, PA

Project #: 30106678

(Use Project name as Project #) ☐

Project Manager: Larry Grant

ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:

Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information

☐ Same as Client Info

PO #

Site Information

Is this site impacted by Petroleum? Yes ☐

Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Lead	Hold Lead	Total Bottle
14083-01	SB-40-P3 (9.5-10)	3/17/23	915	SO	MH	X		9
02	SB-43-P4 (7.5-8)		945			X		
03	SB-43-P5 (7.5-8)		950			X		
04	SB-304 (2.5-3)		920			X		
05	SB-304 (7.5-8)		920				X	
06	SB-305 (2.5-3)		935			X		
07	SB-305 (7.5-8)		[illegible]				X	
08	SB-306 (2.5-3)		955			X		
09	SB-306 (7.5-8)		945				X	
10	SB-307 (5.5-6)	↓	1120	↓	↓	X		↓

Container Type: A A

Preservative: A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hillwig	3/17/23 1511	STL AAL	3/17/23 1515
STL AAL	3/17/23 1800	[illegible] AAL	3/17/23 1800
[illegible] AAL	3/17/23 2100	AAL	3-17-23 2100
AAL	3-18-23 0120		3/18/23 0120

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTANTS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 4 of 3

Date Rec'd in Lab: 3/18/23

ALPHA Job #: L2314083

Client Information
Client: Arcadis
Address: 1 Harvard Way Ste 5 Hillsborough NJ
Phone: 908-936-1000
Fax:
Email: Larry.Grant@arcadis.com

Project Information
Project Name: Allison Park Street
Project Location: Phillipsburg NJ
Project #: 30108679
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time
Standard: X — Due Date:
Rush (only if pre approved): X 4 day — # of Days:

These samples have been previously analyzed by Alpha

Deliverables
- NJ Full / Reduced
- EQuIS (1 File) — EQuIS (4 File)
- Other

Regulatory Requirement
- SRS Residential/Non Residential
- SRS Impact to Groundwater
- NJ Ground Water Quality Standards
- NJ IGW SPLP Leachate Criteria
- Other

Billing Information
- Same as Client Info

PO #

Site Information
Is this site impacted by Petroleum? Yes

Petroleum Product:

For EPH, selection is REQUIRED:
- Category 1
- Category 2

For VOC, selection is REQUIRED:
- 1,4-Dioxane
- 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Lead; Lead - Field; RS Ca chlorides and other; Arsenic; Field Rs Ca chlorides and other; Total Bottle

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Lead	Lead - Field	RS Ca chlorides and other	Arsenic	Field Rs Ca chlorides and other				Total Bottle
14083-11	SB-308 (5.5-6)	3/17/23	1120	Soil	MH			X						
12	SB-309 (4.5-5)		1115			X								
13	SB-310 (8.5-9)		1020				X		X					
14	SB-311 (7.5-8)		1030				X		X	X				
15	SB-312 (4.5-5)		1125				X							
16	SB-313 (7.5-8)		1040				X							
17	SB-314 (7.5-8)		1000				X							
18	SB-314 (2.5-3)		1005				X							
19	SB-315 (2.5-3)		935				X							
20	SB-~~316~~ 315 (7.5-8)		940				X							

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	A	B				
Preservative	A	A	A	A				

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilinski	3/17/23 1312	STA AAL	3/17/23 13:15
STA AAL	3/17/23 1800	[signature] MC	3/17/23 1800
[signature] MC	3/17/23 2100	KM	3-17-23 2100
KM	3-18-23 0120	[signature]	3/18/23 0120

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 7 of 8

Date Rec'd in Lab: 3/18/23

ALPHA Job #: L2314083

Client Information
Client: Arcadis
Address: 1 Lakeland Way Suite 2
Hillsborough NJ
Phone: 908-359-1200
Fax:
Email: Larry.Grant@arcadis.us

Project Information
Project Name: Alkami 91st Street
Project Location: Phila, PA
Project #: 30106678
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ 4 day # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Lead	Lead HCl04		Lead	Mercury	RICO Chlorinated Pesticides			Sample Specific Comments
14083-21	SB-216 (2.5-3)	3/17/23	920	Soil	MY		X							
22	SB-216 (7.5-8)		925				X							
23	DUP-1		X			X								
24	Field Blank		1245	AQ	AH				X	X	X			
25	Rin Blank	3/16/23	—		LL					X				

Preservative Code	Container Code
A = None	P = Plastic
B = HCl	A = Amber Glass
C = HNO_3	V = Vial
D = H_2SO_4	G = Glass
E = NaOH	B = Bacteria Cup
F = MeOH	C = Cube
G = $NaHSO_4$	O = Other
H = $Na_2S_2O_3$	E = Encore
K/E = Zn Ac/NaOH	D = BOD Bottle
O = Other	

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A		P	A/G	A			
Preservative	A	A		C	B	A			

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilliard	3/17/23 1311	STA AAL	3/17/23 17:15
STA AAL	3/17/23 1800	[illegible] AAL	3/17/23 1800
[illegible] AAL	3/17/23 2100	[illegible]	3-17-23 2100
[illegible]	3-18-23 0120	[illegible]	3/18/23 0120

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

APPENDIX D

MONITORING WELL PURGE LOGS

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: _____ Site: Alliance Well ID: MW-001

Date: 10/25/21 Sampled By: NS

Sampling Time: 1235 Recorded By: NS

Weather: 70 SUNNY Duplicate/QA/QC: _____

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		N9360TVCF

Purging Information

Casing Material: PVC

Casing Diameter: PVC

Total Depth: 20.16

Depth to Water: 10.40

Water Column: 9.76

Gallons/Foot: .16

Gallons in Well: 1.56 16

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Penstaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____

Pump On: 1154 Off: _____

PID Reading: N/A

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1155	0	100	0	10.52	7.26	0637	500	1.06	19.01	-128	
1200	5		1.00	10.50	7.41	0621	142	0.58	19.50	-139	
1205	10		1.25	10.50	7.16	0622	10.5	0.53	20.01	-142	
1210	15		1.50	10.50	7.17	0629	110	0.53	21.01	-145	
1215	20		1.75	10.50	7.16	0621	102	0.51	21.64	-145	
1220	25		2.00	10.50	7.20	0621	0.0	0.46	20.32	-149	
1225	30		2.25	10.50	7.21	0620	0.0	0.46	19.81	-150	
1230	35		2.50	10.50	7.22	0619	0.0	0.45	19.88	-152	

Observations During Sampling

Well Condition: Good

Color: _____

Odor: _____

Purge Water Disposal: Ground

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab ✓ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: 3 Site: Alliance Well ID: MW-002

Date: 10/25/21 Sampled By: AS

Sampling Time: 1135 Recorded By: AS

Weather: 65 cloudy Duplicate/QA/QC: N/A

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		N9210TVCF

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 20.22

Depth to Water: 7.23

Water Column: 12.99

Gallons/Foot: .16

Gallons in Well: 2.07784

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____

Pump On: 1039 Off: _____

PID Reading: N/A

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1040	0	200	0	7.54	6.13	0.431	85.2	0.77	16.81	49	Black
1045	5	|	.25	7.45	6.30	0.418	56.2	0.57	16.97	-66	
1050	10	|	1.00	7.56	6.64	0.408	6.7	0.63	16.30	-101	
1055	15	|	2.0	7.68	6.41	0.415	10.3	0.67	16.42	-99	
1100	20	|	3.0	7.70	6.82	0.413	3.2	0.80	16.43	-130	
1105	25	|	4.00	7.93	7.00	0.415	4.3	1.04	16.15	-155	
1110	30	|	5.00	8.52	7.85	0.415	5.9	1.30	16.26	-240	
1115	35	|	6.00	8.49	8.35	0.411	3.2	1.53	16.15	-284	
1120	40	|	7.00	8.53	8.36	0.406	1.6	1.60	16.16	-305	
1125	45	|	8.00	8.48	8.34	0.418	3.4	1.46	16.12	-301	
1130	50	|	9.00	8.21	8.42	0.410	0.9	1.47	16.18	-306	

Observations During Sampling

Well Condition: Good

Color: _____

Odor: _____

Purge Water Disposal: Ground

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab ✓ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number: _____ Site: Alliance Well ID: MW-103

Date: 10/25/21 Sampled By: NS

Sampling Time: 1405 Recorded By: NS

Weather: 70 Sunny Duplicate/QA/QC: DUP-1

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		N936TUCF

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 24.75

Depth to Water: 6.74

Water Column: 18.01

Gallons/Foot: 1.6

Gallons in Well: 2.8816

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Penstaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____

Pump On: 1249 Off: _____

PID Reading: N/A

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1250	0	200	—	7.02	6.85	1.58	575	0.37	17.53	-63	
1255	5		.25	7.02	6.78	1.63	907	0.05	17.27	-96	
1300	10		.50	7.02	6.81	1.48	1104	0.00	17.66	-96	
1305	15		.75	7.02	6.88	1.22	149	0.00	18.22	-29	
1310	20		1.00	7.02	7.89	0.715	174	0.00	18.01	8	Yellow
1315	25		1.50	7.02	9.39	0.681	30.2	0.00	18.30	-76	Yellow
1320	30		2.00	7.02	10.36	0.673	35.7	0.00	18.34	-142	Yellow
1325	35		2.50	7.02	10.31	0.1063	39.3	0.00	18.45	-160	
1330	40		3.00	7.02	10.93	0.696	64.5	0.00	18.52	179	
1335	45		3.50	7.02	11.43	0.797	90.2	0.00	18.73	-202	
1340	50		4.00	7.02	11.57	0.839	44.1	0.07	18.40	-201	
1345	55		4.50	7.02	11.70	0.910	36.8	0.11	18.60	-196	
1350	100		5.00	7.02	11.78	0.982	25.3	0.17	18.45	-188	
1355	105		5.50	7.02	11.76	0.979	26.2	0.27	18.55	-185	
1400	70		6.00	7.02	11.75	0.977	27.4	0.35	18.39	-181	
1405	75										

Observations During Sampling

Well Condition: Good

Color: _____

Odor: _____

Purge Water Disposal: Ground

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab ✓ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: _____ Site: Alliance Well ID: MW-0004

Date: 10/25/21 Sampled By: NS

Sampling Time: ~~1540~~ 1000 Recorded By: NS

Weather: 70 Sunny Duplicate/QA/QC: N/A

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 21.50

Depth to Water: 11.67

Water Column: 9.88

Gallons/Foot: .16

Gallons in Well: 1.5808

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____ _____

Pump On: _____ Off: _____

PID Reading: N/A

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments
1448	0	100	–	11.73	12.84	5.83	475	6.31	18.83	-127	yellow
1450	5		.25	11.75	12.80	5.96	321	6.28	17.02	-246	yellow
1455	10		.50	11.75	12.76	5.97	279	6.26	16.62	-326	yellow
1500	15		1.00	11.75	12.90	5.92	178	1.75	16.99	-333	yellow
1505	20		1.50	11.75	12.78	5.55	721	1.36	19.78	-308	
1510	25		2.00	11.75	12.97	6.34	747	1.73	15.37	-104	
1515	30		2.50	11.75	12.92	6.21	642	1.28	17.27	-117	
1520	35		3.00	11.75	12.88	6.20	643	1.67	17.16	-116	
1525	40		3.50	11.75	12.91	6.19	362	1.52	17.18	-114	
1530	45		4.00	11.75	12.94	6.52	331	1.41	16.01	-116	
1535	50		4.50	11.75	12.95	6.50	324	1.39	16.13	-121	
1540	55		5.00	11.75	12.97	6.49	169	1.48	16.11	-121	
1545	60		5.50	11.75	12.96	6.39	493	1.70	15.57	-114	
1550	65		6.00	11.75	12.97	6.44	527	1.68	15.50	-113	
1555	70		6.50	11.75	12.96	6.44	502	1.74	15.38	-111	

Observations During Sampling

Well Condition: Good

Color: _____

Odor: _____

Purge Water Disposal: Ground

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab ✓ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: _____ Site: _____ Well ID: MW-005

Date: 10/25/21 Sampled By: _____

Sampling Time: _____ Recorded By: _____

Weather: _____ Duplicate/QA/QC: _____

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 11.84

Depth to Water: 11.68

Water Column: _____

Gallons/Foot: _____

Gallons in Well: _____

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____ _____

Pump On: _____ Off: _____

PID Reading: N/A

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments

N/A

Observations During Sampling

Well Condition: _____ Purge Water Disposal: _____

Color: _____ Turbidity(qualitative): _____

Odor: _____ Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description From Lab _____ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS

Project Number	30064674	Site	9/91 91/1-2 Water Wells
Date	10/22/21	Sampled By	MH
Sampling Time		Recorded By	MH
Weather	Sunny	Duplicate/QA/QC	

Instrument Identification

Instrument	PID	Water Quality Meter(s) Horiba U-52
Serial #		

Purging Information

Casing Material	PVC / Mo Rod	Purge Method (circle one)	Submersible / Centrifugal / Bladder / Bailer / Peristaltic
Casing Diameter		Screen Interval From	To
Total Depth	—	Sampling Interval	
Depth to Water	—	Volumes to be Purged	
Water Column		Total Volume Purged	
Gallons/Foot		Pump On	Off
Gallons in Well		PID Reading	N/A

Field Parameter Measurements During Purging

Sample Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (S.U.units)	Conductivity (umhos/cm)	Turbidity (NTUs)	Diss Oxygen	Temp (°C or °F)	ORP	Comments
TW1 1315	—	—	—	7.80	11.41	0.694	7107	5.21	16.17	-11.1	Yellow
	~ 10ft	SS pump									
TW2 1325				13.25	8.41	0.757	7102	10.71	15.24	-4.2	Clear
			4-15'	SS pump							
TW3 1321				13.75	8.51	0.762	7101	9.61	15.27	-6.2	Clear
				8-13' SS pump							
TW4 —			DRY								
			4-13' SS pump								
TW5 1420				7.91	12.61	0.641	7101	6.91	15.22	-5.7	Yellow

Observations During Sampling

Well Condition		Purge Water Disposal	
Color		Turbidity (qualitative)	
Odor		Other (OVA, HNU etc.)	

Constituents Sampled	Container Description: From Lab	ARCADIS	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	MW-1
Date:	~~4/1/22~~ 4/1/22	Sampled By:	MH		
Sampling Time:	12:55	Recorded By:	MH		
Weather:	Cloudy 50°	Duplicate/QA/QC:	~~MH~~		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible	Centrifugal	Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:		To:	
Total Depth:	19.92	Sampling Interval:			
Depth to Water:	10.14	Volumes to be Purged:			
Water Column:	9.78	Total Volume Purged:	4.00		
Gallons/Foot:	0.16	Pump On:	12:10	Off:	12:50
Gallons in Well:	1.56 48	PID Reading:	0/0/0		

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
12:10	-	250	-	10.24	6.77	0.809	463	0.48	13.47	-113	
12:15	5	250	0.75	10.25	6.90	0.810	720	0.41	13.07	-114	
12:20	10		2.00	10.22	7.01	0.805	29.4	0.00	12.94	-125	
12:25	15		2.50	10.16	7.06	0.802	20.0	0.00	12.25	-128	
12:30	20		2.75	10.14	7.05	0.800	15.5	0.00	12.36	-130	
12:35	25		3.00	10.18	7.05	0.800	13.00	0.00	12.41	-131	
12:40	30		3.50	10.21	7.04	0.797	8.7	0.00	12.71	-131	
12:45	35		3.75	10.20	7.04	0.798	9.2	0.00	12.77	-131	
12:50	40		4.00	10.23	7.05	0.797	8.9	0.00	12.89	-133	
~~12:55~~	~~45~~										
~~13:00~~	~~50~~										

Observations During Sampling

Well Condition:	good	Purge Water Disposal:	
Color:	cloudy grey	Turbidity(qualitative):	
Odor:	yes	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number: 30108678.03B
Site: Alliance 51st St
Well ID: MW-2
Date: ~~01/26/22~~ 4/1/22
Sampled By: MH
Sampling Time: 14:45
Recorded By: MH
Weather: cloudy 50°
Duplicate/QA/QC: —

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC
Casing Diameter: 2
Total Depth: 19.93
Depth to Water: 6.88
Water Column: 13.05
Gallons/Foot: 0.16
Gallons in Well: 2.088

Purge Method:(circle one) (Submersible) Centrifugal Bladder Bailer Peristaltic
Screen Interval: From: _____ To: _____
Sampling Interval: _____
Volumes to be Purged: _____
Total Volume Purged: 8.75
Pump On: 13:25 Off: _____
PID Reading: C/a/C

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
13:25	—	250	—	6.88	7.07	0.495	553	0.32	14.74	-131	Yack color
13:30	5	750	1.50	8.36	7.29	0.481	59.5	0.18	14.70	-157	dark grey color
13:35	10		3.25	7.21	7.35	0.487	122	0.31	14.69	-181	
13:40	15		3.75	7.24	7.53	0.484	52.2	0.48	14.75	-221	light grey
13:45	20		4.00	7.25	7.63	0.469	40.3	0.66	14.71	-236	
13:50	25		5.00		7.81	0.487	18.0	0.87	14.71	-266	
13:55	30			Battery	Died						Black color
14:00	35		5.50	7.21	7.40	0.506	1000	1.06	14.81	-171	
14:05	40		5.00	7.20	7.485	0.467	392	2.78	14.85	-265	light grey
14:10	45		6.50	7.22	8.43	0.483	30.3	4.50	14.80	-294	
14:15	50		7.25	7.28	8.498	0.463	13.0	3.84	14.80	-315	
14:20	55		8.00	7.30	8.26	0.493	13.4	3.40	14.77	-305	
14:25	60		8.25	7.30	8.16	0.485	13.2	3.08	14.74	-314	
14:30	65		8.75	7.34	8.22	0.489	13.3	3.52	14.71	-315	

Observations During Sampling

Well Condition: good
Color: _____
Odor: no

Purge Water Disposal: _____
Turbidity(qualitative): _____
Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	**Well ID:**	MW-3
Date:	~~01/26/22~~ 4/1/22	Sampled By:	MDM		
Sampling Time:	1320	Recorded By:	MDM		
Weather:	Cloudy, 55°	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible / Centrifugal / Bladder / Bailer / Peristaltic
Casing Diameter:	2"	Screen Interval: From:	To:
Total Depth:	~~23~~ 23.95	Sampling Interval:	
Depth to Water:	4.46	Volumes to be Purged:	
Water Column:	19.49	Total Volume Purged:	
Gallons/Foot:	~~3.19~~ 0.16	Pump On:	Off:
Gallons in Well:	3.19	PID Reading:	0/0/0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1324	4	200		4.46	9.47	1.21	71m	10.53	14.13	-2.56	
1327	7				8.39	1.17	541	9.41	13.21	19	
1330	10			4.45	7.13	1.131	237	3.42	12.96	80	
1334	14				7.04	1.07	171	3.43	12.70	105	
1337	17			4.47	7.02	1.68	116	1.68	12.58	117	
1341	21				7.02	1.16	116	1.51	12.44	117	
1344	24	↓	5	4.48	7.02	1.16	115	1.14	12.37	112	
		1.2 gal									

Observations During Sampling

Well Condition:	Good	Purge Water Disposal:	
Color:	Yellow	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	**Well ID:**	MW-4
Date:	~~01/26/22~~ 4/1/22	Sampled By:	MH		
Sampling Time:	1131	Recorded By:	MH		
Weather:	Cloudy, 40	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	21.95	Sampling Interval:	
Depth to Water:	8.63	Volumes to be Purged:	
Water Column:	13.32	Total Volume Purged:	
Gallons/Foot:	0.16	Pump On:	Off:
Gallons in Well:	2.07	PID Reading:	0/C/C

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1110	4	25^		8.67	13.47	6.154	71nc	5.41	13.69	-75	
1115	5				13.40	6.10 >	71nc	7.27	13.75	-72	
1120	10			8.91	13.5	5.57	71nc	4.90	13.99	-70	
1125	14				13.20	5.82	71nc	4.72	14.03	-67	
1130	21			8.92	13.20	5.52	71nc	4.66	14.15	-66	
1135	24			8.93	13.21	5.65	71nc	4.65	14.21	-64	
1140	29	↓	5	8.95	13.25	5.84	71nc	4.49	14.37	-64	

Observations During Sampling

Well Condition:	Good	Purge Water Disposal:	
Color:	Yellow	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Mw-5

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	~~MW-009~~
Date:	~~01/26/22~~ 4/1/22	Sampled By:	MH		
Sampling Time:	1090	Recorded By:	MH		
Weather:	50° partly cloudy	Duplicate/QA/QC:	-		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	(Submersible) Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	21.09	Sampling Interval:	
Depth to Water:	12.09	Volumes to be Purged:	
Water Column:	9.00	Total Volume Purged:	5.00
Gallons/Foot:	0.16	Pump On:	9:40 Off: 10:25
Gallons in Well:	1.44	PID Reading:	0/0/0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
9:40	0	250	0	12.09	5.71	0.369	461	1.60	14.66	131	
9:45	5	↓	0.80	12.61	5.83	0.336	90.2	0.00	15.42	115	
9:50	10		1.50	12.66	5.83	0.329	101	0.00	15.63	121	
9:55	15		2.00	12.63	5.83	0.327	70.9	0.00	15.64	124	
10:00	20		2.50	12.64	5.83	0.326	13.6	0.00	15.67	125	
10:05	25		3.00	12.65	5.84	0.325	4.8	0.00	15.64	129	
10:10	30		3.50	12.69	5.84	0.325	12.2	0.00	15.70	129	
10:15	35		4.00	12.72	5.84	0.325	9.0	0.00	15.79	126	
10:20	40		4.50	12.71	5.84	0.325	9.7	0.00	15.41	128	
10:25	45	↓	5.00	12.11	5.89	0.325	9.9	0.00	15.84	125	

Observations During Sampling

Well Condition:	good	Purge Water Disposal:	
Color:	none	Turbidity(qualitative):	
Odor:	none	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	MW-7
Date:	~~01/26/22~~ 4/1/24	Sampled By:	MH		
Sampling Time:	1400	Recorded By:	MH		
Weather:	Cloudy, 40	Duplicate/QA/QC:	DUP-1		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	18.08	Sampling Interval:	
Depth to Water:	4.96	Volumes to be Purged:	
Water Column:	13.04	Total Volume Purged:	
Gallons/Foot:	2" 0.16	Pump On:	Off:
Gallons in Well:	2.09	PID Reading:	0/0/0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1315	0	200		4.96	12.76	2.14	7.16	3.59	12.47	-119	
1320	5			5.02	12.48	2.07	7.16	1.76	12.61	-145	
1325	10				12.20	1.61	6.21	0.17	12.41	-147	
1330	15			5.10	12.41	1.51	6.11	0.15	12.19	-146	
1334	20				12.42	1.61	5.17	0.12	12.20	-159	
1340	21			5.11	12.39	1.61	2.48	0.10	11.98	-162	
1345	30			5.14	12.37	1.57	1.66	0.10	11.76	-147	
1350	35			5.14	12.37	1.57	1.64	0.10	11.75	-147	
1354	40	↓	6	5.14	12.37	1.57	1.65	0.10	11.75	-147	

Observations During Sampling

Well Condition:	Good	Purge Water Disposal:	
Color:	Yellow	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number: 30108678.03B Site: Alliance 51st St **Well ID:** MW-8

Date: ~~01/26/22~~ 4/1/22 Sampled By: MH

Sampling Time: 11:40 Recorded By: MH

Weather: ~~partly sunny~~ 50° Duplicate/QA/QC: -

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC

Casing Diameter: 2

Total Depth: 19.41

Depth to Water: 4.14

Water Column: 15.27

Gallons/Foot: 0.16

Gallons in Well: 2.4432

Purge Method:(circle one) (Submersible) Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: 3.75

Pump On: 11:00 Off: 11:40

PID Reading: 0/0/0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
11:00	-	250	-	4.15	6.23	0.593	953	1.21	14.99	70	
11:05	5	250	0.50	4.74	6.48	0.548	1000	0.00	15.02	15	
11:10	10	|	0.75	5.04	6.56	0.599	753	0.00	15.05	-16	
11:15	15	|	1.00	5.31	6.62	0.598	973	0.00	15.32	-30	
11:20	20	|	1.50	5.81	6.66	0.600	998	0.00	15.16	-50	
11:25	25	|	2.50	6.84	6.62	0.628	134	0.41	14.61	-15	
11:30	30	|	2.75	6.63	6.63	0.627	120	0.45	14.43	-9	
11:35	35	|	3.75		6.65	0.611	130	0.85	14.56	-32	

Observations During Sampling

Well Condition: _____

Color: cloudy grey

Odor: _____

Purge Water Disposal: _____

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	MW-9
Date:	~~3/26/22~~ 4/19/22	Sampled By:	MH MDH		
Sampling Time:	1037	Recorded By:	MDH		
Weather:	Cloudy, rain	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	21.80	Sampling Interval:	
Depth to Water:	9.93	Volumes to be Purged:	
Water Column:	11.87	Total Volume Purged:	
Gallons/Foot:	0.16	Pump On:	Off:
Gallons in Well:	1.90	PID Reading:	0/0.6

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
955	0	150		9.95	13.46	9.25	7/100	7.72	12.4	-99	
1000	5			10.07	13.54	9.21	7/100	7.02	13.17	-91	
1005	10			10.17	13.553	9.22	7/100	6.96	13.35	-70	
1010	15			10.20	13.549	9.16	7/100	6.71	13.57	-60	
1015	20			10.27	13.40	9.12	7/100	6.511	13.58	-54	
1020	25			10.21	13.4	9.12	7/100	6.52	13.52	-54	
1025	30	↓	4	10.21	13.41	9.12	7/100	6.50	13.611	-54	
			1030								

Observations During Sampling

Well Condition:	Good	Purge Water Disposal:	
Color:	Clear	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	MW-1
Date:	07/11/22	Sampled By:	M. Hinkle		
Sampling Time:	1090	Recorded By:	M. Hinkle		
Weather:	Sunny 77°	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		X8J70N0G

Purging Information

Casing Material:	PVC	Purge Method:(circle one) ~~Submersible~~ Centrifugal Bladder Bailer Peristaltic	
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	20.2	Sampling Interval:	
Depth to Water:	10.37	Volumes to be Purged:	
Water Column:	9.84	Total Volume Purged:	2.50
Gallons/Foot:	0.16	Pump On:	1020 Off: 1055
Gallons in Well:	1.574	PID Reading:	

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1020	—	200	—	10.37	7.14	0.753	1000	3.22	26.77	-107	
1025	5		0.75	10.38	7.08	0.767	1000	0.97	25.12	-115	
1030	10		0.50	10.40	6.96	0.771	1000	0.52	25.66	-118	
1035	15		0.75	10.41	6.98	0.759	904	0.38	25.96	-121	
1040	20		1.00	10.41	6.99	0.710	534	0.31	26.21	-126	
1045	25		1.50	10.41	7.11	0.695	46.3	0.28	26.67	-130	
1050	30		2.00		7.11	0.715	46.0	0.25	25.67	-134	
1055	35		2.50		7.12	0.714	49.5	0.22	25.89	-137	

Observations During Sampling

Well Condition:	good	Purge Water Disposal:	
Color:	grey	Turbidity(qualitative):	
Odor:		Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	MW-2
Date:	07/11/22	Sampled By:	M. Hank		
Sampling Time:	1210	Recorded By:	MHank		
Weather:	Sunny 60°	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		X8J70N0G

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2"	Screen Interval: From:	To:
Total Depth:	20.23	Sampling Interval:	
Depth to Water:	7.08	Volumes to be Purged:	—
Water Column:	13.15	Total Volume Purged:	2.75
Gallons/Foot:	0.16	Pump On:	1120 Off: 12:05
Gallons in Well:	2.104	PID Reading:	—

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1120	-	200	-	7.24	7.09	0.558	44.5	2.75	73.64	-111	
1125	5		0.75	7.31	6.81	0.556	30.2	0.96	22.08	-92	
1130	10		0.50	7.31	6.95	0.537	51.5	0.52	21.28	-126	
1135	15		0.75	7.31	7.57	0.516	0.0	0.34	21.42	-207	
1140	20		1.00	7.31	7.67	0.516	0.0	0.33	21.49	-211	
1145	25		1.25	7.31	7.97	0.514	0.0	0.28	21.62	-245	
1150	30		1.50	7.31	8.44	0.503	0.0	0.25	21.77	-286	
1155	35		1.75	7.31	8.82	0.497	0.0	0.23	21.89	-316	
1200	40		2.00	7.31	8.89	0.501	0.0	0.26	21.87	-325	
1205	45		2.75	7.31	8.88	0.503	0.0	0.25	21.92	-326	

Observations During Sampling

Well Condition:	good	Purge Water Disposal:	
Color:	dark → clear	Turbidity(qualitative):	
Odor:	none	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	**Well ID:**	MW-3
Date:	07/11/22	Sampled By:	M Hank		
Sampling Time:	0940	Recorded By:	MHank		
Weather:	Sunny	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		X8570NDG

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	(Submersible)	Centrifugal	Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:		To:	
Total Depth:	24.03	Sampling Interval:			
Depth to Water:	5.93	Volumes to be Purged:			
Water Column:	18.10	Total Volume Purged:	5.50		
Gallons/Foot:	0.16	Pump On:	0840	Off:	935
Gallons in Well:	23.0812	PID Reading:	—		

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
0840	—	200	—	6.31	6.50	1.71	1000	8.62	18.62	-28	
0845	5		1.00	6.31	6.61	1.72	187	1.62	17.88	-72	
0850	10		1.00	6.32	6.63	1.76	96.7	1.16	18.00	-88	
0855	15		1.50	6.33	6.66	1.6	60.0	0.91	17.82	-95	
0900	20		2.00	6.32	6.74	1.38	55.6	0.82	18.04	-61	
0905	25		2.50	6.34	6.96	0.985	33.7	0.81	18.27	-23	
0910	30		3.00	6.35	7.42	0.909	29.3	0.83	18.49	-33	
0915	35		3.50	6.40	9.11	0.836	9.2	0.81	18.51	-103	
0920	40		4.00	6.43	9.40	0.815	10.6	0.78	18.61	-128	
0925	45		4.50	6.51	9.55	0.802	8.0	0.79	18.88	-148	
0930	50		5.00	6.54	9.62	0.797	5.8	0.68	18.94	-147	
0935	55		5.50	6.57	9.65	0.802	6.2	0.64	18.99	-148	

Observations During Sampling

Well Condition:	good	Purge Water Disposal:	
Color:	~~clear~~ yellow	Turbidity(qualitative):	
Odor:	none	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number: 30108678.03B
Site: Alliance 51st St
Well ID: MW-4
Date: 07/11/22
Sampled By: MH
Sampling Time: 12pm
Recorded By: MH
Weather:
Duplicate/QA/QC:

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC
Casing Diameter: 2
Total Depth: 21.53
Depth to Water: 10.45
Water Column:
Gallons/Foot:
Gallons in Well:

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic
Screen Interval: From: To:
Sampling Interval:
Volumes to be Purged:
Total Volume Purged:
Pump On: Off:
PID Reading: 0.0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1200	0	24		10.91	12.96	5.97	718	3.98	21.16	-73	
1203	5				13.57	6.14	102	3.0	18.11	-73	
1206	6				13.58	6.08	6.01	2.79	17.99	-76	
1209	9			10.95	13.59	6.46	303	2.72	17.70	-77	
1212	12				13.0	6.46	212	2.57	16.78	-78	
1215	15				13.0	6.45	166	2.61	16.77	-78	
1218	18			10.57	13.0	6.46	998	2.67	16.64	-75	
1221	21				13.10	6.46	101	2.62	16.62	-75	
1224	24		5	10.57	13.05	6.47	99.5	2.41	16.60	-78	

Observations During Sampling

Well Condition:
Color: Yellow
Odor:

Purge Water Disposal:
Turbidity(qualitative):
Other (OVA, HNU,etc.):

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	**Well ID:**	MW-5
Date:	07/11/22	Sampled By:	MH		
Sampling Time:	1011	Recorded By:	MH		
Weather:	Sunny 65°	Duplicate/QA/QC:	DUP-1		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	21.35	Sampling Interval:	
Depth to Water:	11.94	Volumes to be Purged:	
Water Column:		Total Volume Purged:	
Gallons/Foot:		Pump On:	Off:
Gallons in Well:		PID Reading:	C/C/C

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
927	5	2L		12.07	6.80	0.248	946	0.64	19.47	57	
930	8				6.41	0.247	276	0.0	18.57	82	
934	12			12.11	6.66	0.28	107	2.91	18.64	89	
940	18				6.81	0.267	29.7	2.07	18.40	90	
944	22			12.12	6.80	0.271	27.7	2.15	18.37	91	
948	26				6.82	0.275	20.11	0.0	18.37	94	
952	30			12.12	6.82	0.276	14.7	0.0	18.41	91	
956	34				6.81	0.274	13.4	0.0	18.49	94	
1000	38			12.12	6.81	0.278	11.7	0.0	18.54	96	
1004	42	↓	5L	12.12	6.81	0.276	9.2	0.0	18.97	91	

Observations During Sampling

Well Condition:	Grav	Purge Water Disposal:	
Color:	Clear	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	MW-7
Date:	07/11/22	Sampled By:	M. Hank		
Sampling Time:	1330	Recorded By:	M. Hank		
Weather:	Sunny 40°	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		X8J 70NO6

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2"	Screen Interval: From:	To:
Total Depth:	18.95	Sampling Interval:	
Depth to Water:	5.15	Volumes to be Purged:	
Water Column:	13.80	Total Volume Purged:	
Gallons/Foot:	0.16	Pump On:	12:40 Off: 1330
Gallons in Well:	2.208	PID Reading:	—

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1240	—	200	—	5.15	10.74	1.64	036	2.38	20.95	-191	
1245	5	200	0.25	5.13	10.94	1.16	691	0.97	20.62	-222	
1250	10		0.50	5.27	11.21	1.95	687	0.46	22.17	-246	
1255	15		0.75	5.37	11.25	1.92	643	0.39	23.5	-244	
1300	20		1.00	5.44	11.43	1.74	170	0.29	22.22	-271	
1305	25		1.25	5.51	11.36	1.64	69.5	0.25	21.59	-285	
1310	30		1.50	5.53	11.59	1.64	60.3	0.23	21.61	-291	
1315	35		2.00	5.55	11.60	1.64	50.7	0.21	21.66	-295	
1320	40		2.25	5.57	11.59	1.64	48.7	0.20	21.97	-299	
1325	45		2.50	5.56	11.59	1.64	43.6	0.22	22.18	-302	
1330	50		2.75	5.55	11.59	1.63	42.0	0.22	22.25	-303	

Observations During Sampling

Well Condition:	good	Purge Water Disposal:	
Color:	yellow/green	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab / ARCADIS	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	**Well ID:**	MW-8
Date:	07/11/22	Sampled By:	MDK		
Sampling Time:	900	Recorded By:	MDK		
Weather:	Sunny 85°	Duplicate/QA/QC:	-		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	19.87	Sampling Interval:	
Depth to Water:	4.29	Volumes to be Purged:	
Water Column:		Total Volume Purged:	
Gallons/Foot:		Pump On:	Off:
Gallons in Well:		PID Reading:	0/0 / 176

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
845	0	250		4.31	6.59	0.547	891	0.18	23.4	18	
850	5				6.61	0.541	427	0.19	23.5	-10	
855	10			4.37	6.68	0.541	278	0.19	24.0	-30	
900	15				6.66	0.534	147	0.06	24.86	-37	
905	20			4.45	6.72	0.526	127	0.08	24.89	-45	
910	25				6.74	0.526	119	0.04	24.97	-41	
915	30			4.49	6.71	0.527	116	0.02	24.9	-47	
920	35			4.51	6.41	0.527	116	0.02	24.96	-43	
925	40		5	4.51	6.71	0.525	117	0.01	24.99	-44	

Observations During Sampling

Well Condition:	Good	Purge Water Disposal:	
Color:	Clear	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: 30108678.03B | Site: Alliance 51st St | **Well ID:** MW-9

Date: 07/11/22 | Sampled By: MH

Sampling Time: 1145 | Recorded By: MH

Weather: | Duplicate/QA/QC:

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC

Casing Diameter: 2

Total Depth: 21.65

Depth to Water: 16.73

Water Column:

Gallons/Foot:

Gallons in Well:

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: To:

Sampling Interval:

Volumes to be Purged:

Total Volume Purged:

Pump On: Off:

PID Reading: 0/0/1

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
Purge											
1110	0	250		16.97	12.96	7.45	12.9	9.17	20.21	-15	
1115	5				12.97	7.44	11.4	0.0	20.15	-11.5	
1120	10			16.97	12.96	7.44	11.2	0.0	20.11	-11.9	
1125	15				12.96	7.43	10.9	0.0	20.07	-11.6	
1130	20			16.97	12.96	7.42	10.2	0.0	20.04	-11.6	
1135	25				12.96	7.42	10.4	0.0	19.74	-11.6	
1140	30	↓	5	16.61	10.96	17.42	10.7	0.0	19.65	-11.7	
								0.0	19.67	-11.7	

Observations During Sampling

Well Condition: | Purge Water Disposal:

Color: | Turbidity(qualitative):

Odor: | Other (OVA, HNU,etc.):

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

Groundwater Sampling Form

Project Number	30108678	**Well ID**	MW-1			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	60.1 degrees F and Mostly Clear. The wind is blowing N at 12.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	10.41	**Total Depth (ft-bmp)**	20.19	**Water Column (ft)**	9.78	**Gallons in Well**	1.59
Purge Start	10:35	**Pump Intake (ft-bmp)**	18	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End	11:45	**Volumes Purged**	2.67	**Sample ID**	MW-1	**Sampled by**	Madelyn Hank
Sample Time	11:40	**Gallons Purged**	4.25	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:35	0	0	--	10.41	0.00	7.37	0.878	528	2.25	18	-148	--	--
10:40	5	5	--	10.45	0.75	6.87	0.881	355	1.66	18.16	-130	--	--
10:45	5	10	--	10.45	1.50	6.84	0.86	195	1.5	18.55	-126	--	--
10:50	5	15	--	10.48	1.75	6.84	0.859	132	1.48	18.58	-126	--	--
10:55	5	20	--	10.50	2.00	6.84	0.856	74.8	1.46	18.36	-126	--	--
11:00	5	25	--	10.51	2.50	6.83	0.853	35.5	1.44	19.05	-126	--	--
11:05	5	30	--	10.51	2.75	6.85	0.851	26.3	1.43	19.09	-126	--	--
11:10	5	35	--	10.51	3.00	6.86	0.849	19	1.41	19.24	-127	--	--
11:15	5	40	--	10.51	3.25	6.87	0.852	24.8	1.4	19.37	-132	--	--
11:20	5	45	--	10.51	3.25	6.84	0.844	13.5	1.48	19.67	-127	--	--
11:25	5	50	--	10.51	3.50	6.85	0.849	11.4	1.43	19.36	-128	--	--
11:30	5	55	--	10.51	3.75	6.85	0.843	10.9	1.38	19.51	-130	--	--
11:35	5	60	--	10.51	4.25	6.87	0.843	11	1.38	19.12	-132	Gray	Mild

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
VOCs	250 mL Amber	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well: Good condition

Well Locked at Departure:

Well Completion: Stick-up

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30108678	**Well ID**	MW-2			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	62.1 degrees F and Mostly Clear.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	7.28	**Total Depth (ft-bmp)**	20.2	**Water Column (ft)**	12.92	**Gallons in Well**	2.10
Purge Start	12:00	**Pump Intake (ft-bmp)**	17	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End	12:55	**Volumes Purged**	2.26	**Sample ID**	MW-2	**Sampled by**	Madelyn Hank
Sample Time	12:50	**Gallons Purged**	4.75	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:00	0	0	--	7.28	0.00	6.96	0.492	123	7.75	19.99	-109	--	--
12:05	5	5	--	7.28	0.50	7.46	0.493	58.4	1.61	17.09	-202	--	--
12:10	5	10	--	7.51	1.25	8.45	0.472	41.7	1.44	17.91	-259	--	--
12:15	5	15	--	7.51	1.75	8.59	0.471	36.2	1.39	17.91	-278	--	--
12:20	5	20	--	7.51	2.25	8.57	0.471	39.8	1.35	18.05	-295	--	--
12:25	5	25	--	7.51	2.50	8.51	0.47	8.3	1.32	19.04	-293	--	--
12:30	5	30	--	7.51	2.75	8.33	0.484	6.2	1.36	18.23	-293	--	--
12:35	5	35	--	7.58	3.50	8.72	0.47	6.1	1.33	17.78	-309	--	--
12:40	5	40	--	7.55	4.00	8.56	0.472	5.3	1.32	17.31	-310	--	--
12:45	5	45	--	7.60	4.75	8.7	0.471	6	1.31	17.84	-316		

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
VOCs	250 mL Amber	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30108678	**Well ID**	MW-3			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	55.0 degrees F and Mostly Clear. The wind is blowing at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.92	**Total Depth (ft-bmp)**	23.67	**Water Column (ft)**	17.75	**Gallons in Well**	2.88
Purge Start	09:20	**Pump Intake (ft-bmp)**	20	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End	10:05	**Volumes Purged**	1.65	**Sample ID**	MW-3	**Sampled by**	Madelyn Hank
Sample Time	10:00	**Gallons Purged**	4.75	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:20	0	0	200	5.92	0.00	6.25	1.77	178	2.45	15.14	-30	--	--
09:25	5	5	0.25	6.78	1.25	6.36	1.69	95.1	1.98	15.58	-21	--	--
09:30	5	10	0.15	6.78	2.00	7.16	0.987	44.8	2.02	15.79	-21	--	--
09:35	5	15	--	6.96	2.50	9.55	0.825	43.7	2.21	15.92	-2	--	--
09:40	5	20	--	6.96	3.25	10.55	0.889	70.3	2.07	15.98	-46	--	--
09:45	5	25	--	6.96	3.75	10.91	1.07	85.7	1.9	16.11	-61	--	--
09:50	5	30	--	6.96	4.50	10.99	1.11	86.7	1.82	16.19	-62	--	--
09:56	6	36	--	6.96	4.75	11.05	1.18	84.2	1.74	16.36	-64	Yellow	

Constituent Sampled	Container	Number	Preservative
Dissolved Metals	250 mL Plastic	1	HNO3
VOCs	250 mL Amber	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:
Well Locked at Arrival:
Condition of Well: Good condition
Well Locked at Departure:
Well Completion: Stick-up
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30108678	**Well ID**	MW-4			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	62.1 degrees F and Mostly Clear.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	10.21	**Total Depth (ft-bmp)**	21.55	**Water Column (ft)**	11.34	**Gallons in Well**	1.84
Purge Start		**Pump Intake (ft-bmp)**	18	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End		**Volumes Purged**	3.80	**Sample ID**	MW-4	**Sampled by**	Matt Hilinski
Sample Time	13:10	**Gallons Purged**	7.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:27	0	0	--	10.21	--	12.51	6.1	1000	5.08	15.68	-117	--	--
12:33	6	6	--	10.21	--	12.5	5.86	297	2.96	15.58	-125	--	--
12:37	4	10	--	10.21	--	12.51	5.88	223	2.81	15.55	-130	--	--
12:42	5	15	--	10.21	--	12.51	5.9	191	2.76	15.65	-135	--	--
12:48	6	21	--	10.21	--	12.51	5.92	164	2.7	15.67	-138	--	--
12:53	5	26	--	10.21	--	12.51	5.94	91.8	2.72	15.56	-140	--	--
12:58	5	31	--	10.21	--	12.49	5.95	97.2	2.68	15.59	-139	--	--
13:05	7	38	--	10.21	--	12.49	5.97	97.3	2.71	15.52	-139	Yellow	None

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
VOCs	40 mL Glass	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:		Well Locked at Arrival:	no
Condition of Well:	Missing lock	Well Locked at Departure:	no
Well Completion:	Stick-up	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30108678	**Well ID**	MW-5			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	59.0 degrees F and Mostly Clear. The wind is blowing N/NW at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	12.02	**Total Depth (ft-bmp)**	21.35	**Water Column (ft)**	9.33	**Gallons in Well**	1.52
Purge Start	10:03	**Pump Intake (ft-bmp)**	18	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End		**Volumes Purged**	3.29	**Sample ID**	MW-5	**Sampled by**	Matt Hilinski
Sample Time	10:50	**Gallons Purged**	5.00	**Replicate/ Code No.**	DUP-1	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:04	0	0	--	12.02	--	6.18	0.381	1000	2.33	17.61	-14	--	--
10:09	5	5	--	12.09	--	6	0.369	1000	1.34	17.35	16	--	--
10:14	5	10	--	12.10	--	5.9	0.347	800	0.77	17.19	31	--	--
10:19	5	15	--	12.10	--	5.87	0.339	480	0.71	17.29	40	--	--
10:24	5	20	--	12.10	--	5.85	0.335	349	0.68	17.3	49	--	--
10:29	5	25	--	12.10	--	5.82	0.327	247	0.63	16.99	55	--	--
10:35	6	31	--	12.10	--	5.83	0.33	25.4	0.63	16.94	64	--	--
10:39	4	35	--	12.10	--	5.82	0.33	25.2	0.61	16.9	63	--	--
10:45	6	41	--	12.10	--	5.8	0.331	25.1	0.6	17.12	68		

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
VOCs	40 mL Glass	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:		Well Locked at Arrival:	no
Condition of Well:	Missing lock	Well Locked at Departure:	no
Well Completion:	Stick-up	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30108678	**Well ID**	MW-7			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	62.1 degrees F and Mostly Clear.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.11	**Total Depth (ft-bmp)**	17.93	**Water Column (ft)**	12.82	**Gallons in Well**	2.08
Purge Start	13:10	**Pump Intake (ft-bmp)**	15	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End	14:21	**Volumes Purged**	2.64	**Sample ID**	MW-7	**Sampled by**	Madelyn Hank
Sample Time	14:15	**Gallons Purged**	5.50	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
13:10	0	0	--	5.11	0.00	11.2	2.19	538	3.39	19.58	-243	--	--
13:14	4	4	--	5.50	1.00	11.41	2.24	412	1.81	19.28	-267	--	--
13:20	6	10	--	5.54	1.50	11.49	2.21	123	1.57	19.29	-271	--	--
13:25	5	15	--	5.59	2.00	11.51	2.12	46.9	1.51	19.28	-272	--	--
13:30	5	20	--	5.59	2.75	11.54	2.03	32.5	1.48	19.32	-270	--	--
13:35	5	25	--	5.59	3.00	11.56	2.03	27.9	1.45	19.52	-269	--	--
13:40	5	30	--	5.62	3.50	11.56	1.99	25.6	1.47	19.25	-262	--	--
13:45	5	35	--	5.62	4.65	11.58	1.96	23.4	1.44	19.27	-265	--	--
13:51	6	41	--	5.62	4.25	11.64	1.97	25.2	1.43	19.4	-285	--	--
13:56	5	46	--	5.62	4.50	11.98	1.96	17.6	1.43	19.44	-284	--	--
14:00	4	50	--	5.63	5.00	11.97	1.94	15.7	1.43	19.38	-282	--	--
14:05	5	55	--	5.63	5.50	11.91	1.94	15.4	1.42	19.49	-276	--	--
14:11	6	61	--	5.63	5.75	11.91	1.94	15.6	1.41	19.59	-274		

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
VOCs	250 mL Amber	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well: Good condition

Well Locked at Departure:

Well Completion: Stick-up

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30108678	**Well ID**	MW-8			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	55.0 degrees F and Mostly Clear. The wind is blowing at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	4.55	**Total Depth (ft-bmp)**	19.7	**Water Column (ft)**	15.15	**Gallons in Well**	2.46
Purge Start		**Pump Intake (ft-bmp)**	15	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End		**Volumes Purged**	2.03	**Sample ID**	MW-8	**Sampled by**	Matt Hilinski
Sample Time	09:50	**Gallons Purged**	5.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:15	0	0	--	4.55	--	6.34	0.525	101	2.38	19.43	-4	--	--
09:20	5	5	--	4.55	--	6.46	0.517	100	1.17	20.06	-54	--	--
09:24	4	9	--	4.55	--	6.48	0.522	100	0.97	19.97	-63	--	--
09:29	5	14	--	4.55	--	6.48	0.512	100	0.82	20.76	-70	--	--
09:35	6	20	--	4.55	--	6.49	0.507	100	0.85	21.31	-76	--	--
09:40	5	25	--	4.55	--	6.49	0.509	100	0.82	21.4	-70	--	--
09:44	4	29	--	4.55	--	6.49	0.506	101	0.8	21.5	-70		

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
VOCs	40 mL Glass	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Condition of Well: Good condition

Well Completion: Flush mount

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30108678	**Well ID**	MW-9			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	62.1 degrees F and Mostly Clear.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	9.90	**Total Depth (ft-bmp)**	21.7	**Water Column (ft)**	11.80	**Gallons in Well**	1.92
Purge Start	11:15	**Pump Intake (ft-bmp)**	18	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End		**Volumes Purged**	3.65	**Sample ID**	MW-9	**Sampled by**	Matt Hilinski
Sample Time	12:00	**Gallons Purged**	7.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:16	0	0	--	9.90	--	12.41	-263	1000	8.11	16.05	-264	--	--
11:20	4	4	--	9.90	--	12.55	7.98	1000	7.08	16.17	-241	--	--
11:24	4	8	--	9.90	--	12.58	7.92	1000	7.17	16.17	-214	--	--
11:29	5	13	--	9.90	--	12.6	7.9	1000	6.67	16.13	-193	--	--
11:35	6	19	--	9.90	--	12.6	7.87	1000	6.75	16.28	-178	--	--
11:40	5	24	--	9.90	--	12.62	7.85	1000	6.49	15.97	-168	--	--
11:46	6	30	--	9.90	--	12.62	7.81	1000	6.47	15.94	-160	--	--
11:50	4	34	--	9.90	--	12.62	7.83	1000	6.4	16.01	-156	--	--
11:55	5	39	--	9.90	--	12.63	7.82	1000	6.43	16	-155	Cloudy slight yellow	None

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
Dissolved Lead 0.2 Filter	250 mL Plastic	1	HNO3
VOCs	40 mL Glass	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:		Well Locked at Arrival:	no
Condition of Well:	Missing lock	Well Locked at Departure:	no
Well Completion:	Flush mount	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Location ID:	MW-3	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy 32			**Field Technician:**		Thomas Harman	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	3.85	**Total Depth (ft-bmp):**	23.7	**Water Column(ft):**	19.53	**Gallons in Well:**	3.17
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	20	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	08:43	**Total Volume Purged (gallons):**	3	**Sample ID:**	MW-3	**Sample Time:**	09:50
Purge End Time:	09:45	**Well Volumes Purged (total):**	0.95	**Replicate / Code No.:**	Duplicate / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / J0M484WD
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
08:45	0	5.1	6.55	0.713	137	7.55	9.06	188	Yellow	No Odor
08:50	5	4.81	6.86	0.607	60.8	8.34	9.16	185	Yellow	No Odor
08:55	10	4.8	7.11	0.605	33.1	7.43	9.09	182	Yellow	No Odor
09:00	15	4.8	7.3	0.614	16.2	6.42	9	178	Yellow	No Odor
09:05	20	4.8	7.46	0.622	13.2	5.88	9.02	175	Yellow	No Odor
09:10	25	4.8	7.78	0.624	10.1	5.48	8.99	169	Yellow	No Odor
09:15	30	4.8	8.07	0.625	7.1	5.24	8.92	162	Yellow	No Odor
09:20	35	4.8	8.27	0.63	5.8	4.88	8.92	156	Yellow	No Odor
09:25	40	4.8	8.45	0.632	4.4	4.6	8.96	148	Yellow	No Odor
09:30	45	4.8	8.59	0.634	3.4	4.4	8.91	140	Yellow	No Odor
09:35	50	4.8	8.63	0.635	2.7	4.36	8.88	137	Yellow	No Odor
09:40	55	4.8	8.67	0.637	2.6	4.14	8.88	132	Yellow	No Odor
09:44	59	4.8	8.7	0.635	2.5	4.22	8.8	129	Yellow	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-9	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	35 cloudy			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	7.8	**Total Depth (ft-bmp):**	21.7	**Water Column(ft):**	13.9	**Gallons in Well:**	2.26
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	19	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	10:45	**Total Volume Purged (gallons):**	2.1	**Sample ID:**	MW-9	**Sample Time:**	11:20
Purge End Time:	11:15	**Well Volumes Purged (total):**	0.93	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
								Color	Odor
10:45	0	7.8	11.94	8.91	8.72	11.37	-58	Clear	No Odor
10:51	6	8	12.5	8.98	8.28	12.76	-96	Clear	No Odor
10:57	12	8.16	12.5	8.91	7.6	12.94	-96	Clear	No Odor
11:01	16	8.2	12.52	8.86	6.99	13.07	-96	Clear	No Odor
11:05	20	8.2	12.55	8.84	6.6	13.13	-96	Clear	No Odor
11:10	25	8.21	12.56	8.82	6.49	13.1	-94	Clear	No Odor
11:15	30	8.21	12.55	8.74	6.44	13.13	-95	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)
TEL	Amber Glass	2	None

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-4	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	35 cloudy			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	6.33	**Total Depth (ft-bmp):**	21.7	**Water Column(ft):**	15.37	**Gallons in Well:**	2.50
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	19	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	11:37	**Total Volume Purged (gallons):**	2.25	**Sample ID:**	MW-4	**Sample Time:**	12:15
Purge End Time:	12:10	**Well Volumes Purged (total):**	0.90	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
								Color	Odor
11:37	0	6.33	12.52	6.11	3.8	12.12	-66	Yellow	No Odor
11:40	3	6.4	12.51	6.01	3.02	11.37	-70	Clear	No Odor
11:44	7	6.45	12.53	6.11	2.96	10.49	-75	Clear	No Odor
11:50	13	6.47	12.57	6.08	3.33	10.11	-76	Clear	No Odor
11:55	18	6.5	12.47	5.97	3.18	11.98	-80	Clear	No Odor
12:02	25	6.5	12.48	6.1	3.23	10.79	-77	Clear	No Odor
12:05	28	6.5	12.52	6.1	3.02	11.37	-77	Clear	No Odor
12:10	33	6.5	12.5	6.17	2.87	10.32	-79	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-2	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy 39			**Field Technician:**		Thomas Harman	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	6.75	**Total Depth (ft-bmp):**	20.22	**Water Column(ft):**	13.46	**Gallons in Well:**	2.19
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	18	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	11:34	**Total Volume Purged (gallons):**	1.5	**Sample ID:**	MW-2	**Sample Time:**	12:10
Purge End Time:	12:05	**Well Volumes Purged (total):**	0.68	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / MUYC83T8
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
11:35	0	6.95	9.04	0.481	68.6	2.39	13.82	-134	Clear	No Odor
11:40	5	7.95	9.4	0.469	41.7	0.71	14.49	-189	Clear	No Odor
11:45	10	6.95	9.55	0.466	31.2	0.58	14.7	-208	Clear	No Odor
11:50	15	6.95	9.5	0.465	17.7	0.51	14.72	-211	Clear	No Odor
11:55	20	6.95	9.47	0.466	9.9	0.48	14.79	-216	Clear	No Odor
12:00	25	6.95	9.48	0.463	8.6	0.47	14.89	-222	Clear	No Odor
12:05	30	6.95	9.47	0.465	8	0.45	14.88	-224	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-7	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Light rain 39			**Field Technician:**		Thomas Harman	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	4.25	**Total Depth (ft-bmp):**	17.95	**Water Column(ft):**	13.56	**Gallons in Well:**	2.20
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	14	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	12:21	**Total Volume Purged (gallons):**	2.5	**Sample ID:**	MW-7	**Sample Time:**	13:15
Purge End Time:	13:11	**Well Volumes Purged (total):**	1.14	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / MUYC83T8
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
12:25	0	4.85	11.77	1.89	532	2.15	11.11	-172	Brown	No Odor
12:30	5	4.57	11.88	1.94	317	0.7	10.38	-194	Brown	No Odor
12:35	10	4.58	11.91	1.95	258	0.62	10.18	-206	Yellow	No Odor
12:40	15	4.59	11.91	1.95	192	0.58	10.08	-212	Yellow	No Odor
12:45	20	4.59	11.92	1.95	127	0.63	10.04	-215	Yellow	No Odor
12:50	25	4.59	11.92	1.94	79.6	0.65	10.11	-213	Yellow	No Odor
12:55	30	4.59	11.94	1.94	55.4	0.57	10.06	-212	Yellow	No Odor
13:00	35	4.59	11.95	1.96	62.4	0.79	9.97	-211	Yellow	No Odor
13:05	40	4.59	11.95	1.96	63.5	0.53	10	-210	Clear	No Odor
13:10	45	4.59	11.97	1.96	60	0.56	10.03	-211	Yellow	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

Comments: None

Well Information:

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-1	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy 37			**Field Technician:**		Thomas Harman	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	9.68	**Total Depth (ft-bmp):**	20.22	**Water Column(ft):**	10.54	**Gallons in Well:**	1.71
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	20	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	10:44	**Total Volume Purged (gallons):**	1.5	**Sample ID:**	MW-1	**Sample Time:**	11:20
Purge End Time:	11:16	**Well Volumes Purged (total):**	0.88	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / MUYC83T8
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
10:45	0	9.76	6.98	0.919	624	2.86	11.14	-16	Brown	No Odor
10:50	5	9.71	7.05	0.917	342	1.71	11.68	-66	Brown	No Odor
10:55	10	9.71	7.03	0.911	163	1.35	11	-81	Brown	No Odor
11:00	15	9.71	7.04	0.905	71.2	1.22	10.93	-89	Clear	No Odor
11:05	20	9.71	7.05	0.901	53.3	1.17	11.06	-93	Clear	No Odor
11:10	25	9.71	7.05	0.9	44.7	1.15	11.05	-97	Clear	No Odor
11:15	30	9.71	7.06	0.899	35.8	1.13	10.91	-99	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-5	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	37 cloudy			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	11.6	**Total Depth (ft-bmp):**	21.45	**Water Column(ft):**	9.85	**Gallons in Well:**	1.60
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	19	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	09:53	**Total Volume Purged (gallons):**	1.15	**Sample ID:**	MW-5	**Sample Time:**	10:30
Purge End Time:	10:25	**Well Volumes Purged (total):**	0.72	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
09:54	0	11.6	8.18	0.389	658	1.15	13.36	69	Clear	No Odor
09:59	5	11.75	6.29	0.35	104	0.36	14.5	70	Clear	No Odor
10:04	10	11.76	5.94	0.35	51.8	0.31	14.88	97	Clear	No Odor
10:09	15	11.77	5.86	0.349	59.2	0.28	15.11	110	Clear	No Odor
10:15	21	11.77	5.83	0.349	42	0.27	15.2	117	Clear	No Odor
10:20	26	11.77	5.81	0.349	37.1	0.27	15.34	120	Clear	No Odor
10:24	30	11.77	5.81	0.349	36.9	0.25	15.32	120	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-8	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy 30			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	NA	**Total Depth (ft-bmp):**	19.7	**Water Column(ft):**	15.8	**Gallons in Well:**	2.57
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	18	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	08:00	**Total Volume Purged (gallons):**	1.25	**Sample ID:**	MW-8	**Sample Time:**	08:35
Purge End Time:	08:30	**Well Volumes Purged (total):**	0.49	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / MUYC83T8
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
08:00	0	3.9	6.46	0.538	1000	2.56	13.4	65	Clear	No Odor
08:04	4	4.05	6.54	0.534	610	2.13	12.68	30	Clear	No Odor
08:10	10	4.1	6.59	0.54	281	1.74	11.78	-2	Clear	No Odor
08:15	15	4.1	6.61	0.543	244	1.57	11.1	-11	Clear	No Odor
08:20	20	4.11	6.63	0.535	242	1.53	11.11	-12	Clear	No Odor
08:24	24	4.11	6.6	0.535	242	1.47	11.07	-3	Clear	No Odor
08:32	32	4.11	6.6	0.535	242	1.54	11.11	-3	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute