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SUPPLEMENTAL SITE INVESTIGATION REPORT – FINAL

ERIE COKE SITE

ERIE COUNTY, PENNSYLVANIA

PADEP Contract No.: SAP4000023226
General Environmental Technical Assistance Contract
Work Requisition No.: GTAC7-6-181

Prepared for:

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Commonwealth of Pennsylvania
Department of Environmental Protection

Submitted by:

OBG | Baker Environmental Solutions Joint Venture
Moon Township, Pennsylvania

July 2025

FINAL

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Submitted to:

Commonwealth of Pennsylvania
Department of Environmental Protection
Northwest Regional Office
Environmental Cleanup Program
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NOTICE

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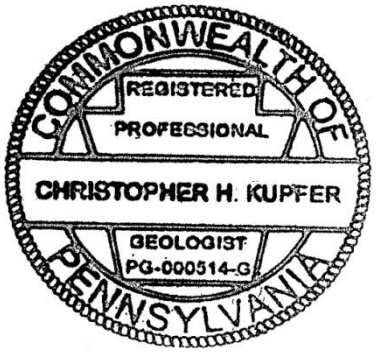
ACRONYMS AND ABBREVIATIONS

AOC	Area of Concern
AWMSI	American Waste Management Systems, Inc.
bgs	below ground surface
C&D	Construction & Demolition
Department	Pennsylvania Department of Environmental Protection
DNAPL	Dense Non-Aqueous Phase Liquid
GTAC-7	General Technical Assistance Contract (7)
HSCA	Hazardous Sites Cleanup Act
IDW	Investigation Derived Waste
J	The result is less than the reporting limit, but greater than or equal to the method detection limit, and the result is estimated.
LNAPL	Light Non-Aqueous Phase Liquid
mg/kg	milligram per kilogram
mg/L	milligram per liter
MSC	Medium-Specific Concentration
NAD	North American Datum
NAPL	Non-Aqueous Phase Liquid
NAVD	North American Vertical Datum
OBG | Baker	OBG | Baker Environmental Solutions Joint Venture
ORP	Oxidation Reduction Potential
PADEP	Pennsylvania Department of Environmental Protection
PAH	Polycyclic Aromatic Hydrocarbon
QA/QC	Quality Assurance/Quality Control
RPD	Relative Percent Difference
SVOC	Semi-Volatile Organic Compound
ug/L	microgram per liter
USGS	United States Geological Survey
VOC	Volatile Organic Compound

SIGNATURE AND SEAL OF

PENNSYLVANIA PROFESSIONAL GEOLOGIST

Interpretations of geologic and hydrogeologic data were prepared under the direction and approval of a professional geologist licensed in the Commonwealth of Pennsylvania.



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July 28, 2025
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EXECUTIVE SUMMARY

OBG | Baker Environmental Solutions Joint Venture (OBG | Baker) has prepared this Supplemental Site Investigation Report to present the supplemental investigation activities and associated findings. The scope of work for the supplemental investigation was based on the results from the Phase II Site Investigation completed in early 2024, as well as information obtained during a recent review of historical files by the Department.

To complete the supplemental investigation field activities in an efficient and timely manner, site preparation activities were completed both at project onset and prior to the comprehensive groundwater sampling activities. The initial site preparation activities included using heavy equipment to clear pathways through the dense weeds to the wells and borings and again to clear pathways to the wells after a historic snowfall in December 2024.

The focus of the supplemental investigation included three areas, Lampe Marina Area, Industrial North Area, and the Industrial South Area – East Region. A series of 16 soil borings were advanced in the Lampe Marina parking lot and campground areas to evaluate potential off-site contamination documented nearby on site. Four soil borings were advanced in the Industrial North Area to evaluate reported historical contamination along the rail lines coming/leaving the site with two additional borings also advanced to evaluate data gaps between wells MW-13 and MW-37. Five soil borings were advanced in the Industrial South Area - East Region where a recent review of historical documents by the Department illuded that there may have been waste disposed in this area.

Lampe Marina Area Soil Investigation

A total of 21 soil samples were collected from 16 soil borings in the Lampe Marina Area with 15 of the samples exhibiting benzene detections and six of the borings exhibiting concentrations above criteria. All Volatile Organic Compound (VOC) criteria exceedances were observed in soils in the northern half of the Lampe Marina investigation area. Several Semivolatile VOCs (SVOCs) were detected in all but one sample with PAHs (Polycyclic Aromatic Hydrocarbons, a common contaminant artifact of coke production) being the most detected subgroup of SVOCs to exceed criteria in the soil samples. Consistent with benzene, PAHs exceeded criteria in most of the soil samples from the northern half of the Lampe Marina investigation area. Several metals also were detected in the soil samples with limited criteria exceedances including thallium, arsenic, manganese, and chromium.

The identification of manmade material at depth (e.g., waste cloth) in the on-site and off-site Lampe Marina Area soils supports the conclusion that the geographic limits of the former Erie Coke facility were continually and methodically expanded outward toward, and at, the lakeshore with fill material, operational wastes, and other wastes during its more than one hundred years of operation. It is likely that this same practice took place with previous property owners to Erie Coke.

Industrial North Area Soil Investigation

A total of nine soil samples were collected from six soil borings and one well boring in Industrial North Area. Several soil samples exhibited VOC (primarily benzene) and SVOC (primarily PAHs) concentrations above criteria. Although several metals also were detected in soil from this area, there were limited metals criteria exceedances including arsenic, chromium, lead, manganese, selenium, and thallium. The elevated VOC and SVOC soil concentrations with varying identified subsurface wastes (e.g., white fibers, white powder, wood) indicates that there are multiple waste streams contributing to the overall detrimental effects of groundwater quality in this area.

The contamination observed in soil in the vicinity of wells MW-13 and MW-45 in the Industrial North Area is believed to have two sources at a minimum. One source being the wastes and fill material used to continually fill in low areas and extend the shoreline to expand Erie Coke's historical operational area. The other source is believed to be from poor housekeeping of railcars, equipment, and/or trucks along the various rail spurs in this, and other areas, on site.

Industrial South Area – East Region Soil Investigation

Five soil borings were advanced, and seven soil samples were collected from this area. VOC detections were sporadic with only two samples exhibiting a VOC (benzene) concentration above criteria. Several SVOCs were detected in most of the soil samples from this area with only three samples exhibiting SVOC criteria exceedances. Most SVOC criteria exceedances were limited to PAHs (primarily naphthalene). Several metals also were detected in this area with limited criteria exceedances including manganese, arsenic and thallium.

Consistent with the Lampe Marina and Industrial North Areas, the contaminant impact observed in this area does not appear to have one contaminant source. Contaminant impact and depth in one boring (primarily PAHs) was not consistent with the impact and depth observed in another boring from this area (primarily benzene).

Groundwater Investigation

A meeting between the Department and OBG | Baker took place after completing the soil boring activities to discuss the appropriate number of supplemental investigation monitoring wells. It was agreed that seven shallow overburden groundwater monitoring wells would be installed during this phase of the investigation with six of the wells (MW-39 through MW-44) installed in the Lampe Marina area and one well (MW-45) installed in the Industrial North Area.

A comprehensive groundwater sampling event of all 58 wells on and off site was completed in December 2024. VOCs were detected in approximately 65% of the groundwater monitoring wells with VOC criteria exceedances in over 50% of the wells. It should be noted that the high percentage of impacted wells is expected as wells were located based on a biased approach

toward contaminated areas. Benzene was the most prevalent VOC to exceed criteria (over 50% of the wells) with many well samples being several orders of magnitude over criteria. This was anticipated as benzene is typically the primary VOC in concentrated byproducts, air emissions, and wastewater from the coke production process. The areas with the most elevated benzene concentrations include Lampe Marina Area, Industrial North Area, and the generalized Tank Farm Area and appear to be independent of each other. Benzene concentrations in these areas ranged from over one to five orders of magnitude above criteria.

At least one SVOC analyte was detected in approximately 75% of the groundwater monitoring wells with SVOC criteria exceedances (primarily PAHs) in approximately 45% of the wells. Notable SVOC criteria exceedances included naphthalene in 24 wells and biphenyl in 23 wells and also can be attributed to the coke production process.

The strategic placement and sampling of soil borings and groundwater monitoring wells from this investigation were successful in delineating the contaminant impact in the Lampe Marina parking lot. Wells MW-39, MW-40, and MW-41 are impacted with VOCs (primarily benzene) and SVOCs (primarily PAHs) above criteria. This is to be expected as associated soil borings have shown that waste material has crossed the property boundary. Soil borings closer to the campground area are clean of waste.

MW-13 in the Industrial North Area is the most contaminated well on site with respect to VOCs and is also the most concerning. Documented manmade contamination at depths above and below the water table (continual source), its close proximity to the lakeshore, and consecutive increases in benzene levels throughout 2024 (60% from January to December 2024; 374,000 ug/L to 629,000 ug/L) are the foundation of the concern. A flat hydraulic gradient indicates minimal groundwater flow towards Lake Erie through the area of MW-13. However, due to the contaminant proximity to the lake, it is one of the areas that should be addressed first in a remediation plan.

Isoconcentration mapping of VOCs and SVOCs conveyed that each of the most impacted areas on site are independent of each other and are not a result of an expanding plume migration (excluding within the Tank Farm Area itself). Each of these larger impacted areas are a composite of a number of smaller individual source areas contributing to the overall poor groundwater quality beneath the site that could potentially migrate toward the Lake Erie shoreline.

Recommendations for further investigation work at the site include continued quarterly monitoring of select groundwater wells (including Dense Non-Aqueous Phase Liquid [DNAPL] monitoring), installation of a new deep well (MW-13D) nested with MW-13 in the Industrial North Area, installation of a shallow well adjacent to both SB-224 and SB-225 in the Industrial South Area – East Region, and biannual sediment sampling along the shoreline of Lake Erie adjacent to MW-13 and also in the Tank Farm Area.

1.0 INTRODUCTION

OBG | Baker Environmental Solutions Joint Venture (OBG | Baker) has prepared this Supplemental Site Investigation Report for the Pennsylvania Department of Environmental Protection (PADEP or Department) as authorized by PADEP Work Requisition, Number 7-6-181, Contract Number SAP4000023226 (GTAC-7), pursuant to the Pennsylvania Hazardous Sites Cleanup Act (HSCA), Act 108, October 18, 1988.

This report presents the strategies and methodologies used to implement the Scope of Work at the Erie Coke Site (site) located in Erie, Pennsylvania that were presented in the Supplemental Site Investigation Work Plan (OBG | Baker, October 2024). The Work Plan was prepared based on the findings from the Phase II Site Investigation completed in early 2024, as well as information obtained during a recent review of historical files by the Department. The Supplemental Site Investigation Report included herein also presents the findings from the investigation activities and the associated conclusions and recommendations moving forward.

It should be noted that because the supplemental investigation was essentially an extension of the recently completed Phase II investigation, some of the detailed discussions of investigation and sampling protocols and methodologies may not be presented herein. Rather, these detailed discussions, as well as a comprehensive presentation of the site history and environmental investigations, can be located in the Phase II Site Investigation Report (OBG | Baker, September 2024).

2.0 SITE LOCATION AND SETTING

The Erie Coke Site is located at 925 East Bay Drive in the City of Erie, Erie County, Pennsylvania at 42° 08’ 40.6602” N latitude and -80° 04’ 3.5976” W longitude on the USGS Erie North Quadrangle map (Figure 1). Erie Coke Corporation (Erie Coke) owns several parcels of land totaling approximately 186 acres of which approximately 96 acres is land, and an additional 90 acres is considered ‘submerged lands’ (beyond the Lake Erie shoreline into the lake). The site is bordered to the north by Lake Erie and Lampe Marina, to the east by East Avenue Boat Ramp (East Ave. Boat Launch) and Lake Erie, to the south by a residential area and the Barber National Institute, and to the west by the City of Erie wastewater treatment plant and a wooded area (Figure 2). A sitewide presentation of figure numbers and their proximity to each other is presented on Figure 3. The three primary areas where intrusive investigation activities were performed were in the Lampe Marina Area (Figure 4), Industrial North Area (Figure 5), and the Industrial South Area - East Region (Figure 6).

The site is located within a state designated Environmental Justice Area. The site is sparsely vegetated and not in use. The site is generally flat, except for steep banks above the Lake Erie shoreline and the area west and south of the main operational plant area. The northern / eastern bank separates the site from Lake Erie and the western / southern bank separates the site from East Bay Drive. Access to the site for vehicles is restricted to the East Avenue gate entrance where a new locking gate and fencing were recently installed by the Department to partially restrict access.

General land uses proximate to the site include commercial, industrial, and residential areas. The population within a three-mile radius relies exclusively on a public water supply operated by Erie Water Works.

3.0 SITE PREPARATION ACTIVITIES

3.1 Site Clearing

To complete the supplemental investigation field activities in an efficient and timely manner, site preparation activities were completed both at project onset and prior to the comprehensive groundwater sampling activities. The initial site preparation activities were completed on August 5, 2024, using the drilling subcontractor (Allprobe Environmental, Inc. [Allprobe]) with OBG | Baker providing oversight and direction.

An excavator and skid steer with a brush hog attachment were used by Allprobe to complete most of the site preparation activities (e.g., vegetation clearing and vehicle/personnel access pathways). Wastewater storage drums and a rolloff box also were mobilized during the site preparation activities by the waste disposal subcontractor (American Waste Management Systems, Inc. [AWMSI]) for use during the investigation activities. A field office was also mobilized for the field activities.

To accomplish the supplemental investigation field activities, clearing of pathways to select boring locations was warranted. Unfortunately, phragmites and other invasive weeds grow back quickly each year on site. For this scope of work, limited tree cutting (saplings) and grading work were necessary to clear the pathways to the test boring locations. A track mounted skid steer with brush hog and excavator were utilized to clear the pathways to the boring locations.

In some areas, only the skid steer with brush hog was needed to clear the pathways. In others, the excavator was used to cut the pathway with the skid steer following behind to 'clean up' the cut pathway. On site OBG | Baker personnel directed the subcontractor where to clear using a handheld GPS unit and surveyed mapping. Test borings that warranted development of access pathways for clearing are shown on Figure 5 (SB-219 and SB-221) and Figure 6 (SB-222 through SB-226).

3.2 Snow Plowing

After completing the test boring and well installation activities (see later sections of report) but prior to the comprehensive groundwater sampling event, a historic snow event covered the site in early December 2024. Snow accumulations and drifts in the site area approached five feet. Due to the extraordinary snowfall, the comprehensive groundwater sampling event was postponed one week to address the snowfall.

At the approval of the Department, OBG | Baker contracted Allprobe to perform the snow plowing activities. The subcontactor utilized two track mounted skid steers with buckets to complete the work. The snow plowing scope included general clearing around the field office and laydown areas and clearing pathways to, and around, all on-site groundwater monitoring wells. The snow plowing and clearing activities were completed on December 9th and 10th, 2024.

4.0 SOIL INVESTIGATION ACTIVITIES

The supplemental investigation was performed to further determine the nature and extent of hazardous substances, pollutants, or contaminants that have been released into the environment from specifically focused areas on and off site. This evaluation was completed through soil sampling, Non-Aqueous Phase Liquid (NAPL) monitoring, and subsequent installation and sampling of additional groundwater monitoring wells to the existing well network. The drilling activities were initiated on November 11, 2024, and were completed on November 22, 2024. A photographic log of investigation activities is provided in Attachment G.

4.1 Soil Boring Locations

A series of 16 soil borings (SB-200 through SB-215 shown on Figure 4) were advanced in the Lampe Marina parking lot and campground areas to evaluate potential off-site contamination documented nearby on site. Further south on Figure 5, four soil borings (SB-216, SB-217, SB-218, and SB-220) were advanced in the Industrial North Area to evaluate reported historical contamination along the rail lines coming/leaving the site, and two borings (SB-219 and SB-221) were advanced to evaluate data gaps between wells MW-13 and MW-37.

On Figure 6 (Industrial South Area – East Region), five soil borings (SB-222 through SB-226) were advanced in an area where a recent review of historical documents by the Department illuded that there may have been waste disposed in this area.

As shown on the figures, soil borings were placed in locations that aided in the identification and delineation of contaminant impact at each area. All borings were advanced to native material with one exception. At the request of the Department, soil boring SB-200 in the Lampe Marina campground area was advanced to bedrock to document the bedrock depth in the area (approximately 54 feet). All soil boring logs for this supplemental investigation are provided in Attachment A.

4.2 Soil Boring Advancement and Sample Collection

Rotasonic drilling method were used for soil sampling and included a combination of rotary power, hydraulic pull-down pressure, and mechanically generated oscillations to advance a dual line of drill pipe. Continuous four-inch diameter soil core samples were collected for lithologic identification and field screening during boring advancement. As each boring was advanced, the inner casing collected a continuous four-inch nominal diameter soil core in five- or ten-foot-long increments.

Once the soil core was extracted, it was placed directly into a clear polyethylene liner using a vibration technique of the rotasonic rig. Housing the sample in a clear plastic liner allowed the OBG | Baker geologist to log the core and field screen the continuous soil sample while minimizing potential volatilization. With significant fill and non-cohesive soils, an outer six-inch diameter

casing was needed to advance the borings deeper than ten feet to achieve the desired boring depths.

Field screening of surface (0 to 1-foot depth interval) and subsurface soil samples consisted of placing the tip of the Photoionization Detector (PID) through small slits cut in the polyethylene liner at approximately one-foot intervals to measure the total concentration of Volatile Organic Compounds (VOCs) in parts per million (ppm). The PID responses were recorded on the associated boring logs. In addition to the PID results, other items that were documented on the boring logs include geologic descriptions of the soil type, odor, discoloration, recovery amount, sample depth, moisture content, grain size, and any other features observed in the soil sample. The soil boring logs are provided in Attachment A.

4.3 Soil Sample Selection Methodology

With the exception of boring SB-200 discussed above, all soil borings were terminated once native material was encountered. Retrieved soil cores were field-screened and up two soil samples were collected from each boring for laboratory analysis described below.

Identified Areas with Contaminant Impact:

- One 'worst-case' soil sample above the water table based on PID readings and/or visual evidence of staining/odor. No 'worst-case' soil samples were collected for analysis below the water table.

- One 'clean' soil sample collected below the 'worst-case' soil sample, above the soil/groundwater interface. No 'clean' soil samples were collected for analysis below the water table.

Areas with No Obvious Contaminant Impact:

- One soil sample was collected above the water table at the environmental scientist's discretion to document subsurface conditions and potentially delineate contaminant impact not obvious through screening (e.g., metals).

The site history has documented releases from tanks and other operational issues throughout the site's history causing environmental concerns across the various Areas of Concern (AOC). For consistency, delineation, and overall site characterization, OBG | Baker and the Department agreed that all soil samples discussed below would be analyzed for VOCs, Semi-Volatile Organic Compounds (SVOCs), and metals (including mercury). All laboratory analyses were completed by a state certified laboratory (ALS Global Environmental Laboratory in Middletown, Pennsylvania).

5.0 LABORATORY ANALYTICAL RESULTS – SOIL INVESTIGATION

The laboratory analytical results discussed below are focused on the soil samples collected as part of the supplemental site investigation to better understand the environmental impact on and off site from historical site operations. Soil sample nomenclature was based on the example below:

SB-220-10-DUP
SB: Soil Boring
220: Boring number
10: Soil sample collected at depth of approximately 9 to 10 feet below grade
DUP: Duplicate soil sample

The criteria used for comparison to all soil analytical results were the Pennsylvania Residential and Non-Residential Medium-Specific Concentrations (MSCs). The detailed laboratory analytical reports for the supplemental investigation soil samples are provided in Attachment B.

As summarized on Tables 1 through 3, and shown on Figures 4 through 6, 33 soil samples (and four quality control duplicate samples) were collected for laboratory analysis from the supplemental investigation. Soil sampling in each boring followed the methodologies described above with either one or two investigative (not quality control) soil samples submitted for laboratory analysis from each boring for characterization and/or potential delineation. Soil samples for analysis were not only collected from the soil borings but were also collected from the well borings used to install the supplemental investigation monitoring wells.

A notable number of select analyte detections and criteria exceedances were exhibited for VOCs, SVOCs and metals in the 37 investigative soil samples. To better covey the distribution of contaminant impact, the development of 'Hits Box' figures showing select VOC and SVOC criteria exceedances were developed. With some soil samples exhibiting over a dozen criteria exceedances, the incorporation of all exceedances would clutter the associated figure and reduce the purpose of the figure. Benzene, naphthalene, and biphenyl historically have been used as markers to represent the overall level of impact (e.g., if there is an elevated biphenyl detection, there are likely other elevated PAHs in the same sample). With extensive historical data supporting this assessment, only the criteria exceedances for these three analytes were included in the three figures associated with the discussions below. It should be noted that sample exceedances occurred in clusters across the site and not evenly distributed as evident by current and historical criteria exceedance mapping in this and previous reports.

5.1 Soil Analytical Results - Lampe Marina Area

Soil borings and sample locations for this area are shown on Figure 4 and the laboratory analytical results are summarized on Table 1. A series of 16 soil borings (SB-200 through SB-215) were advanced in the Lampe Marina parking lot and campground areas to evaluate potential off-site contamination documented nearby on site. At the SB-200 boring location in the campground, no

concerning evidence of contamination (i.e., no VOC or SVOC criteria exceedances) was present as soil impact became less prominent as soil borings approached the campground. Dredged material as the foundation of the campground consists primarily of sand, silt, rock, and shells. An overview of the development of the campground through dredgings can be found in Attachment H.

A total of 19 investigative soil samples (and two duplicates) were collected from the soil borings in this area between the depths of seven and 14 feet below ground surface (bgs). Of the six new groundwater monitoring wells installed in this area (discussed later in report), two soil samples (MW-40-9 and MW-41-8) also were collected from the well borings.

Of the 21 soil samples from this area, 15 of the samples exhibited benzene detections with six of them exhibiting concentrations above criteria (Residential/Non-Residential MSC of 500 micrograms per kilogram [ug/kg]). Concentrations above criteria ranged from 1,190 ug/kg in SB-208-9.5 to 186,000 ug/kg in MW-41-8. The only other VOC criteria exceedance was 1,3,5-trimethylbenzene in MW-41-8 at a concentration of 33,500 ug/kg. All of the VOC criteria exceedances were observed in soils in the northern half of the Lampe Marina investigation area (see Figure 7 for associated benzene exceedances).

Several SVOCs were detected in all but one of the 21 soil samples (SB-209-8.5). Consistent with historical investigation findings, PAHs were the most detected subgroup of SVOCs to exceed criteria in the soil samples and did so for several analytes.

SVOC criteria exceedances ranged from one analyte (SB-205-11) to 13 analytes (MW-41-8 and SB-204-10). A majority of the SVOC criteria exceedances were limited to PAHs, which are a common contaminant artifact of coke production. Historically, the most common PAHs exceeding criteria on site included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Consistent with benzene, these and other PAH analytes exceeded criteria in most of the soil samples from the northern half of the Lampe Marina investigation area (see Figure 7 for associated biphenyl and naphthalene criteria exceedances).

Although several metals also were detected in all 21 samples within this collective area, there were limited metals criteria exceedances. Metals criteria exceedances were limited primarily to thallium, arsenic, manganese, and chromium. Thallium exceeded criteria in 15 samples, arsenic in 12 samples, manganese in six samples, and chromium in four samples. The most metal criteria exceedances were exhibited in SB-204-10 with four metal exceedances including arsenic, chromium, manganese, and thallium. Other than the metals above, lead was the only other metal to exceed criteria and did so in only one sample (MW-40-9).

5.2 Soil Analytical Results – Industrial North Area

Soil borings and sample locations for this area are shown on Figure 5 and the laboratory analytical results are summarized on Table 2. Four soil borings (SB-216, SB-217, SB-218, and SB-220) were advanced in the Industrial North Area to evaluate reported historical contamination along the rail lines and spurs coming/leaving the site, and two borings (SB-219 and SB-221) were advanced to evaluate data gaps between wells MW-13 and MW-37. One well boring (MW-45) also was advanced in this area.

A total of nine soil samples (including one duplicate) were collected from the soil and well borings in this area between the depths of three and ten feet bgs. Of the nine soil samples collected from this area, four of the samples exhibited VOC concentrations above criteria. Benzene exceeded criteria (Residential/Non-Residential MSC of 500 ug/kg) with concentrations ranging from 539 (J) ug/kg in SB-217-3 to 976,000 ug/kg in MW-45-10 (see Figure 8 for associated benzene exceedances). The only other VOC criteria exceedances in soil from this area included toluene (493,000 ug/kg) and 1,3,5-trimethylbenzene (25,300 ug/kg) in the MW-45-10 soil sample.

Several SVOCs were detected in all nine of the soil samples within this collective area with limited criteria exceedances. Five of the nine samples exhibited at least one SVOC analyte exceeding criteria. SVOC criteria exceedances ranged from two analytes (MW-45-10, SB-217-6, and SB-218-7) to five analytes (SB-221-9). SVOC criteria exceedances were primarily limited to PAHs including benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, biphenyl, and naphthalene (see Figure 8 for associated biphenyl and naphthalene criteria exceedances).

Although several metals also were detected in all nine soil samples within this collective area, there were limited metals criteria exceedances. Metals criteria exceedances were limited to arsenic, chromium, lead, manganese, selenium, and thallium. Arsenic exceeded criteria in six samples, thallium in four samples, chromium in three samples, manganese in two samples, and silver and lead in one sample each. The most metal criteria exceedances were exhibited in SB-220-10-DUP with four metal exceedances.

5.3 Soil Analytical Results – Industrial South Area – East Region

Soil borings and sample locations for this area are shown on Figure 6 and the laboratory analytical results are summarized on Table 3. On Figure 6 (Industrial South Area – East Region), five soil borings (SB-222 through SB-226) were advanced in an area where a recent review of historical documents by the Department illuded that there may have been waste disposed in this area.

A total of seven soil samples (including one duplicate) were collected from the soil borings in this area between the depths of four and 16 feet bgs. Of the seven soil samples collected from this area, VOC detections were sporadic. All seven samples exhibited at least one detectable VOC, with methyl acetate, a common laboratory contaminant, being the most detected (present in six of the seven samples), followed by carbon disulfide and toluene (five samples each). Only two of

the seven samples exhibited VOC concentrations above criteria. The lone VOC to exceed criteria was benzene in soil samples SB-224-4 (1,030 ug/kg) and SB-224-6 (1,320 ug/kg) - (see Figure 9 for associated benzene exceedances).

Several SVOCs were detected in six of the seven soil samples within this area. Four of the seven samples exhibited no SVOC criteria exceedances. The exceedances ranged from one analyte (naphthalene at 15,500 ug/kg in SB-224-4) to twelve analytes in sample SB-225-12.

A majority of the SVOC criteria exceedances were limited to PAHs. Naphthalene led with three criteria exceedances, followed by several other PAHs with two exceedances (see Figure 9 for associated biphenyl and naphthalene criteria exceedances).

Although several metals also were detected in all seven samples within this collective area, there were limited metals criteria exceedances. Six of the seven samples exhibited at least one metal analyte with a concentration above criteria. Metals criteria exceedances were limited to manganese, arsenic and thallium. Manganese exceeded criteria in six samples and arsenic and thallium in two samples each. The highest manganese concentration in the area was 5,500 ug/kg in SB-226-16.

The most metal criteria exceedances were exhibited in soil sample SB-225-12 and its duplicate with three each (arsenic, manganese, and thallium). All other samples exhibited no more than one metal criteria exceedance.

6.0 GROUNDWATER INVESTIGATION ACTIVITIES

The supplemental investigation was performed to further determine the nature and extent of hazardous substances, pollutants, or contaminants that have been released into the environment from specifically focused areas on and off site. A segment of this evaluation was completed through the installation and sampling of additional groundwater monitoring wells. The monitoring well installation and development activities were initiated on November 18, 2024, and were completed on November 22, 2024.

6.1 Groundwater Monitoring Well Locations

The draft test boring logs from the 27 soil borings (SB-200 through SB-226) advanced as part of the supplemental investigation were presented to the Department for review. A subsequent meeting between the Department and OBG | Baker took place to discuss the findings from the boring logs. The meeting was to determine the appropriate number and construction specifications of the supplemental investigation groundwater monitoring wells.

It was agreed in the meeting that an additional seven shallow overburden groundwater monitoring wells would be installed during this phase of the investigation. Six of the wells (MW-39 through MW-44) were installed in the Lampe Marina area and one well (MW-45) was installed in the Industrial North Area of the site. The wells proposed and the considerations for their finalized installation locations are summarized below and are shown on Figures 4 and 5.

MW-39

A well was proposed and installed adjacent to the SB-203 soil boring location due to nearby on-site well MW-12 exhibiting the highest benzene concentrations in the Lampe Marina area. A well at this location would aid in determining the magnitude and extent to the off-site marina from the potential on-site contaminant migration.

MW-40

A well was proposed and installed adjacent to the SB-204 soil boring location due to the elevated field screening detections (approximately 89 ppm) and the presence of tarry material above the water table. The location also was chosen to monitor potential off-site migration from on-site well MW-15 that exhibited coal tar in the boring and benzene concentrations orders of magnitude above criteria.

MW-41

A well was proposed and installed adjacent to the SB-206 soil boring location due to elevated field screening readings (309 ppm at 12 feet bgs) in the boring and also to allow for off-site monitoring and possible delineation of contaminant impact in MW-15 and MW-40.

MW-42

A well was proposed and installed adjacent to the SB-215 soil boring location due to elevated field screening readings and the presence of coke and coal breeze above the water table conveying possible contaminant impact. Further, a well at this location would allow for possible delineation of contaminant impact (potentially) migrating off site from on-site well MW-2.

MW-43

A well was proposed and installed adjacent to the SB-211 soil boring location to potentially delineate elevated contamination exhibited historically in wells MW-16 and MW-2. This well would also be used as a sentinel well for monitoring potential contaminant plume movement toward the lake and marina.

MW-44

A well was proposed and installed adjacent to the SB-205 soil boring location to potentially delineate the elevated contaminant impact anticipated to be present in newly installed monitoring wells MW-40 and MW-41. This well would also be used as a sentinel well for monitoring potential contaminant plume movement toward the Lampe Marina campgrounds and Lake Erie.

MW-45

A well was proposed and installed adjacent to the SB-217 soil boring location in the Industrial North Area of the site (Figure 5). This location was chosen to evaluate the impact and extent of the white waste encountered during drilling SB-217 (field screening readings of 1,072 ppm) and connection to further east well MW-13.

6.2 Groundwater Monitoring Well Installation Activities

The groundwater monitoring well installation activities were completed by Cascade Drilling of Marietta, OH with the OBG | Baker on-site environmental scientist providing oversight and direction.

The well borings (20 feet deep or less) were drilled using the same rotasonic drilling methods used for the soil boring activities. Rotasonic methods were ideally suited for the monitoring well installations because the methods minimized generation of waste, reduced difficulties with heaving sands, provided for more controlled well installations, and reduced development time due to the ability to vibrate the outer casing in or out of the borehole.

As was earlier described for the soil sampling drilling, continuous soil core samples were collected for lithologic identification during well boring advancement. One soil sample was proposed to be submitted for laboratory analysis from the most impacted zone above the water table following the same methodologies described above for the soil boring sampling activities. However, if no evidence of contamination, the soil sample was collected at the environmental scientist's discretion.

A total of three soil samples were collected from the well installation activities including MW-40-9, MW-41-8, and MW-45-10 collected from well borings MW-40, MW-41, and MW-45, respectively. No soil samples were collected from the other four well boring advancements (MW-39, MW-42, MW-43, and MW-44) as there was no evidence of notable contamination in the retrieved soil cores. The analytical results of these three samples were discussed previously in Sections 5.1 and 5.2 of this report and are summarized on Tables 1 and 2.

As directed by OBG | Baker's on-site environmental scientist, the wells were constructed using two-inch diameter, Schedule 40, PVC well casing and screen materials. Screens (0.010-inch slot) for all wells were ten feet in length as summarized on the well survey table (Table 4). All seven wells were installed at depths between approximately 16 and 19 feet deep.

Notable hydrostatic pressure (head) from the overburden aquifer's heaving sands (a.k.a., running sands) was encountered during the drilling activities across the site and proved to be more challenging during well drilling and installation. To address this issue, instead of using large quantities of potable water to offset the head, the borings were instead drilled modestly further for deeper placement of the temporary casing.

Once the desired depth of the well was achieved, the well construction activities were initiated. Unfortunately, heaving sands still proved to be an issue, even with the over drilling. As shown on the associated well boring logs (Attachment C), heaving sands forced the wells to be installed slightly shallower than originally planned.

At each well location, after placement of the well screen and riser, sand pack was placed between the well screen and drill casing up to a level approximately two feet above the top of the well screen. Above the well screen and sand pack, bentonite chips were installed between the PVC riser and the drill casing to near grade. As the construction materials were installed, the outer drill casing was slowly removed from the borehole annulus to allow the construction materials to fill the annulus void. The bentonite was hydrated after placement, if needed.

At the ground surface, each of the six wells in the Lampe Marina area was constructed with a flush mounted steel casing set in a two-foot square concrete pad. For MW-45 installed in the Industrial North Area, a 'stick up' well was constructed fitted with an outer steel protective casing and two protective bollards, consistent with the construction of other on-site wells. The well was fitted with a keyed-alike lock.

The Test Boring and Well Construction Records for the seven supplemental investigation monitoring wells are provided in Attachment C.

6.2.1 Groundwater Monitoring Well Development

Monitoring well development activities were performed no sooner than 24 hours after completing the installation of the monitoring wells. Before development, groundwater level and total well depth measurements were collected to calculate the volume of groundwater present within the well casing and determine the appropriate volume to be evacuated for development.

A disposable submersible pump (e.g., Monsoon pump) with dedicated, disposable tubing or a dedicated disposable bailer were used to develop the wells to remove fine sediments and residual drill cuttings from the well casing and the borehole annulus and allow for collection of representative samples for analysis. The pump and bailer were raised and lowered during development to agitate (i.e., stir up) the water within the well to remove additional suspended solids. Development continued at each well until at least the calculated five well volumes were removed. After the pump motor failed, disposable bailers were used for development of the remaining wells.

Water generated from the well development activities was containerized in buckets and transferred to drums in the centralized staging area near the former facility office. The management of Investigation-Derived Waste (IDW) is discussed further in Section 10.0 (IDW Management) of this report.

6.3 Groundwater Monitoring Well Sampling Activities

The comprehensive groundwater sampling event of all 58 wells on and off site was completed from December 9th to 18th, 2024. A complete round of groundwater levels was collected from the wells and recorded in the field notebook and are summarized on Table 4. The monitoring wells were purged prior to sampling to collect a representative groundwater sample from the overburden aquifer.

A majority of the 58 monitoring wells were purged and sampled using low flow purging and sampling methods to minimize sampling-induced turbidity problems and provide samples more representative of ambient groundwater quality. A peristaltic pump with dedicated, disposable polyethylene tubing was used for a majority of the well purging and sampling activities to mitigate cross contamination between wells. A dedicated, disposable field filter was used in line to collect the groundwater sample aliquot designated for dissolved metals analysis. In wells that purging and sampling were problematic due to the presence of NAPL, the wells were purged with a dedicated, disposable polyethylene bailer and retrieval line.

The groundwater samples were analyzed for VOCs, SVOCs, metals (total and dissolved, including mercury), and general chemistry. After collection of the samples for laboratory analysis, field parameter samples were collected and measured for pH, conductivity, temperature, dissolved oxygen, Oxidation-Reduction Potential (ORP), and turbidity. The December 2024 field parameters were recorded in the field notebook and are summarized on Table 5.

6.4 Non-Aqueous Phase Liquid Monitoring

An Interface Probe (IFP) was previously used to measure NAPL in applicable monitoring wells, but the viscosity and 'sticky' properties of the NAPL would not allow for accurate NAPL measurements, and cleaning the IFP afterwards proved time consuming and problematic. A weighted measurement tape and string subsequently were used to measure NAPL but also proved problematic with the inability to penetrate down through the standing NAPL in the bottom of the applicable well.

The latest measurement tool used to measure the NAPL was a 30-foot long, one-inch diameter rigid PVC pipe with attached cotton string secured along the outside of the pipe. The length of the pipe allowed for lowering through the well casing and firmly seating the one-inch pipe at the base of the well bottom cap. Once confirmed at the bottom (through minor tapping of the one-inch pipe on the well bottom cap), the pipe (and attached string) was immediately removed from the well casing and laid on the ground. The white cotton string appeared to show the accurate thickness of the NAPL by measuring the length of black, NAPL-coated string below the white groundwater saturated string.

During implementation of the recent field activities, measurements of both Light NAPL (LNAPL) and Dense NAPL (DNAPL) were completed in the Tank Farm Area. The individual or multiple sources of the NAPL were not identified in the Tank Farm Area as it could be from multiple tanks and/or transmission lines beneath the ground surface. Throughout the previous site investigations, coal tar, creosote, and other byproducts of coke production were encountered in various soil and well borings.

Measurable thicknesses of DNAPL were observed in seven of the groundwater wells in the Tank Farm Area in November 2024 (Table 6). Measurements were collected in November, prior to the comprehensive sampling event in early December, to allow any agitated DNAPL to equilibrate prior to the well purging and sampling activities. LNAPL was not observed in any of the monitoring wells. MW-34D exhibited the greatest thickness of DNAPL with two feet in November followed by MW-9D (1.8 feet), MW-26S and MW-27D (1.5 feet each), MW-10S (0.79 feet), MW-26D (0.21 feet), and MW-36D (0.17 feet).

DNAPL thicknesses varied significantly between November 2024 and previous measurements. This could be due to several factors including, but not limited to, the method of measurement (discussed above), NAPL flowing into the open borehole from pockets in the subsurface soil collecting in the annulus, NAPL clogging the well screen slots mitigating stabilization with surrounding aquifer/NAPL, and delayed flow into the well due to DNAPL characteristics.

6.5 Groundwater Monitoring Well Survey

A total of seven new groundwater monitoring wells (MW-39 through MW-45) were installed as part of the supplemental investigation. To provide accurate placement on scaled site figures and representative groundwater flow mapping, the seven wells were surveyed by the OBG | Baker surveyor on December 23, 2024, after completion of the December 2024 groundwater monitoring well sampling activities.

The monitoring well survey activities included locating the horizontal position and establishing elevations of the newly installed monitoring wells. Elevations of the top of steel protective casing (stick up or flush mounted), top of inner PVC casing, and adjacent concrete pad (acting as ground surface) were surveyed.

The horizontal survey data were measured to the nearest 0.1-foot and referenced to the Pennsylvania State Plane Coordinate System, North American Datum (NAD) 1983. The vertical survey data were measured to the nearest 0.01-foot and referenced to the North American Vertical Datum (NAVD) 1988.

The surveying activities were conducted under the direction of a professional land surveyor licensed to practice surveying in the Commonwealth of Pennsylvania. The data collected from the December 2024 well survey are incorporated into Table 4 and their respective well construction logs in Attachment C.

7.0 HYDROGEOLOGY

Detailed discussions of site geology and hydrogeology were presented previously in the Phase II Site Investigation Report (OBG | Baker, September 2024). The hydrogeology discussions below are an update to previous reporting using the data collected from the most recent December 2024 groundwater sampling event.

The water table in the unconfined, overburden aquifer was generally encountered at a depth of approximately eight feet bgs and provided sufficient production for groundwater sampling in all but one well (MW-27S). To collect representative groundwater elevation measurements, the water levels in each of the 58 wells shown on Figure 10 were measured before the well purging and sampling activities.

As summarized on Table 4, the depth to groundwater in the 58 wells in December 2024 varied from approximately five to 16 feet bgs. All 58 of the wells were installed in the unconfined aquifer to either straddle the water table (shallow wells) or be installed at the overburden/bedrock interface (deep wells).

Based on the December 2024 groundwater elevation measurements, a groundwater elevation contour map was developed (Figure 11). It should be noted that only the shallow monitoring well measurements on Table 4 were used for the map development as the use of the nested deep well measurements would provide an inaccurate map of groundwater flow. As shown on the figure, the groundwater flow direction was generally to the north toward Lake Erie with an approximate hydraulic gradient of 3.8×10^{-3} feet per foot. The hydraulic gradient is essentially the slope of the water table across the site. The groundwater flow and associated mapping is relatively consistent with previously developed groundwater elevation contour maps for the site.

Three standpipes (SP-1 through SP-3) were installed during the site preparation activities. The purpose of the standpipes was an attempt to collect accurate measurements of the Lake Erie water level for comparison to the groundwater elevations in nearby wells on the land portion of the site. At the time of sampling in December 2024, the Lake Erie water level was lower than the installation locations of standpipes SP-1 and SP-2, and therefore, no water level readings were able to be collected. However, the water level in SP-3 was able to be recorded (5.64 feet below top of casing).

Based on the groundwater elevations in December 2024, the water level in standpipe SP-3 was lower than the nearest monitoring wells on land conveying and corroborating the most recent groundwater flow mapping. This same assumption can be translated to SP-1 and SP-2 whose water levels were lower than the depth of the standpipe installation.

It should be noted that only limited data is available for interpretation of the hydraulic interconnection between on-site wells and the three standpipes. The relatively flat hydraulic

gradient of site groundwater and the dynamic continually fluctuating water levels within the standpipes along the rocky shoreline convey a difficult interpretation of the interaction between the overburden aquifer and Lake Erie. This, along with the complexity of the aquifer due to intermixing of deposited materials, indicates that the groundwater flow towards Lake Erie may be retarded by multiple factors.

8.0 LABORATORY ANALYTICAL RESULTS – GROUNDWATER MONITORING WELLS

Because of the unknown future use of the site and the mixture of commercial, industrial, and residential areas near the site, the groundwater analytical results continue to be compared to both the Residential and Non-Residential MSCs for Used Aquifers. A summary of the groundwater analytical result detections is provided on Table 7, and a summary of quality control analytical results is provided on Table 8 for the December 2024 comprehensive groundwater sampling event. The detailed laboratory analytical reports from the sampling event are provided in Attachment D.

It should be noted that common laboratory artifacts including, but not limited to, acetone, chloroform, and chloromethane that are shown as detected on the tables are not discussed or tallied in the report sections below. They are not believed to actually be present in the respective groundwater sample and are a remnant of the laboratory analytical testing process.

8.1 Volatile Organic Compounds

VOCs were detected in approximately 65% of the groundwater monitoring wells with VOC criteria exceedances in over 50% of the wells. All five of the quality control duplicate samples exhibited criteria exceedances.

As expected from the previous groundwater monitoring well results in August, benzene was the most prevalent VOC to exceed criteria in the monitoring wells in December 2024. Benzene criteria (5 ug/L) was exceeded in over 50% of the wells with concentrations in many samples being several orders of magnitude over criteria. Notable elevated benzene concentrations that were a minimum of three orders of magnitude above criteria (5 ug/L) included:

- MW-10D (10,400 ug/L)
- MW-13 (629,000 ug/L – over five orders of magnitude above criteria)
- MW-15 (23,200 ug/L)
- MW-15-DUP (23,100 ug/L)
- MW-16 (13,100 ug/L)
- MW-26S (14,400 ug/L)
- MW-27D (5,090 ug/L)
- MW-29 (13,400 ug/L)
- MW-31 (19,100 ug/L)
- MW-36S (7,910 ug/L)
- MW-36D (6,260 ug/L)
- MW-41 (27,100 ug/L)
- MW-45 (27,600 ug/L)

Most of the remaining benzene exceedances were over two orders of magnitude above the Residential MSC with 27 wells exhibited criteria exceedances greater than 500 ug/L.

In addition to benzene, several other VOCs were detected in the groundwater monitoring wells with the most prominent being toluene (25 wells), all forms of xylene (25 wells), ethylbenzene (21 wells), 1,2,4-trimethylbenzene (24 wells), and 1,3,5-trimethylbenzene (21 wells).

After benzene, 1,2,4-trimethylbenzene was the most prominent VOC to exceed criteria (130 ug/L) in December 2024 with exceedances in twelve of the 58 wells. The 1,2,4-trimethylbenzene criteria exceedances generally were exhibited in the same wells that also had benzene criteria exceedances with the highest concentration (969 ug/L) in MW-29.

Toluene also was prominent in December 2024 with criteria (1,000 ug/L) exceedances in nine of the 58 wells with the highest toluene concentrations in wells MW-13 (72,900 ug/L) and MW-29 (25,300 ug/L). Other notable toluene concentrations included MW-31 (2,740 ug/L), MW-45 (2,510 ug/L), MW-15 (2,480 ug/L), and MW-36D (2,260 ug/L), as these four wells exhibited toluene concentrations twice the Residential MSC. Every well that exhibited a toluene criteria exceedance also exhibited a benzene criteria exceedance.

Other more limited VOCs were detected and exceeded criteria in December 2024 including 1,3,5-trimethylbenzene (four wells), styrene (three wells), bromomethane (two wells), and ethylbenzene and all forms of xylenes (one well each). All of these analytes exceeded criteria in well MW-29 with the well exhibiting more criteria exceedances (seven) than any other well during the December 2024 sampling event.

8.2 Semivolatile Organic Compounds

At least one SVOC analyte was detected in approximately 75% of the 58 groundwater monitoring wells with SVOC criteria exceedances exhibited in approximately 45% of the wells.

As expected from historical groundwater analytical results, PAHs were the most common of the SVOCs to be detected and exceed criteria in the monitoring wells during the December 2024 sampling event.

Notable SVOC detections included naphthalene (42 wells), acenaphthylene (33 wells), carbazole (32 wells), fluorene (31 wells), anthracene (28 wells), and fluoranthene (28 wells).

Notable SVOC criteria exceedances included naphthalene (24 wells), biphenyl (23 wells), 2-methylnaphthalene (20 wells), carbazole (19 wells), dibenzofuran (13 wells), and benzo(a)anthracene (11 wells).

Notable naphthalene concentrations over three orders of magnitude above criteria (100 ug/L) included:

- MW-26S (12,900 ug/L)
- MW-27D (12,500 ug/L)
- MW-10D (11,900 ug/L)
- MW-41 (11,300 ug/L)
- MW-36D (11,200 ug/L)

Including the five wells above, approximately 30% of the wells exhibited naphthalene concentrations greater than one order of magnitude above criteria (100 ug/L).

Biphenyl concentrations in approximately 25% of the wells were over one order of magnitude above criteria (0.84 ug/L) with the five highest included:

- MW-36S (64.8 ug/L)
- MW-36D (61.4 ug/L)
- MW-34D (53.1 ug/L)
- MW-26S (42.9 ug/L)
- MW-27D (40.1 ug/L)

With the exception of MW-1, all wells that exhibited at least one SVOC analyte above criteria also exhibited at least one VOC analyte (typically benzene) above criteria.

Notable multiple SVOC exceedances were exhibited in wells MW-9D (13 exceedances), MW-36S (12 exceedances), MW-27S (10 exceedances), and MW-15, MW-10D, MW-26S, and MW-27D (all with eight criteria exceedances each).

8.3 Metals

Although both a total and dissolved metals analysis sample were collected from each well, the discussion below is focuses solely on the dissolved component of the groundwater samples as these data provide a better understanding of groundwater quality without interference.

As expected, several dissolved metals were detected in all 58 of the wells and the five duplicate samples. At least one dissolved metal detection exceeded criteria in approximately 80% of the wells. Only wells MW-10S/D, MW-11S, MW-19S/D, MW-21, MW-22S/D, MW-26S, MW-34D, and MW-42 exhibited no metals criteria exceedances during the December 2024 sampling event.

Potassium, sodium, manganese, magnesium, iron, calcium, and barium were the most detected of the dissolved metal constituents with detections in greater than 95% of the groundwater samples.

With respect to criteria exceedances, iron was the most prevalent dissolved metal to exceed criteria with exceedances in 39 of the wells, followed by manganese in 32 wells, and arsenic in eight wells. The remaining dissolved metals exceeded criteria in four or less wells during the December 2024 sampling event.

Notable manganese concentrations included:

- MW-13 (10.1 milligrams per liter [mg/L])
- MW-4 (1.7 mg/L)
- MW-16 (1.7 mg/L)
- MW-36S (1.6 mg/L)
- MW-39 (1.6 mg/L)
- MW-25 (1.5 mg/L)
- MW-2 (1.5 mg/L)

Well MW-13 exhibited the most dissolved metals criteria exceedances with seven (aluminum, beryllium, chromium, cobalt, iron, lead, and manganese). The seven exceedances in MW-13 were also the highest concentrations for those respective analytes exhibited in any of the December 2024 groundwater samples.

After MW-13, all other wells exhibited three or less dissolved metals analyte concentrations above their respective criteria.

8.4 General Chemistry

General chemistry also was analyzed in the groundwater well samples and included total acidity, total alkalinity, chloride, nitrate, pH, conductivity, sulfate, total dissolved solids, and turbidity. As summarized on Table 7, sulfate was the most prevalent of the general chemistry parameters to exceed criteria (250 mg/L) with exceedances in over 70% of the wells and exhibiting an average concentration of over 500 mg/L. The elevated sulfate levels were anticipated in groundwater as ammonium sulfate is produced as a by-product during removal of ammonia from raw coke oven gas.

In addition, nitrate exceeded criteria (10 mg/L) in eleven wells, chloride criteria (250 mg/L) in four wells, and pH (6 to 8.5 acceptable range) in four wells. The general chemistry criteria exceedances were similar to historical sampling data. Consistent with the elevated VOC and SVOC concentrations in well MW-13, the sulfate concentration (2,310 mg/L) in MW-13 was the highest of all the groundwater samples, and the pH (2.44) in MW-13 was the lowest of all the groundwater samples collected in December 2024.

9.0 QUALITY ASSURANCE / QUALITY CONTROL

In addition to the investigative soil and groundwater monitoring well samples, Quality Assurance/Quality Control (QA/QC) samples also were collected as part of the supplemental investigation. A presentation of the QA/QC samples collected with their associated analytical results is provided below. The analytical results of the duplicate samples are spread across their respective investigative results tables. The trip blank, field blank, and equipment rinsate blank analytical results are tabulated on Table 8 and the detailed laboratory analytical reports provided in Attachments B and D.

9.1 Duplicate Samples

Duplicate samples were collected at a rate of approximately 10% of the associated investigative samples. Using this criterion, a total of four soil duplicate samples (SB-202-11 DUP, SB-210-9 DUP, SB-220-10 DUP, and SB-225-12 DUP) were collected in November 2024 during the drilling activities, and five groundwater duplicate samples (MW-11D DUP, MW-15 DUP, MW-24 DUP, MW-34S DUP, and MW-40 DUP) were collected in December 2024 during the comprehensive groundwater sampling event.

As presented in the Quality Assurance Plan (OBG | Baker, October 2024), the Data Quality Objectives (DQOs) for the Relative Percent Difference (RPD) between investigative samples and the associated duplicate samples is 35% for non-aqueous samples and 20% for aqueous samples.

For the soil samples, analyte detections between the four investigative and duplicate samples were fairly consistent. Exceptions primarily being a detection of an analyte in the investigative sample but not in the duplicate sample due to an elevated detection limit in the duplicate caused by laboratory sample dilution. Several analytes detected in the investigative and duplicate samples were not within the targeted 35% RPD and was understandable. The often ‘sticky’ and hydrophobic nature of the streaking and pockets of coal tar-impacted soil in the retrieved soil cores wasn’t always conducive to collection of a homogeneous investigative and quality control duplicate sample.

For the December 2024 groundwater monitoring well sampling event, a majority of all analyte detections in all five of the duplicate samples exhibited VOC, SVOC, metals, and general chemistry concentrations/values within the acceptable RPD of the associated investigative groundwater sample.

9.2 Trip Blanks

Trip blanks were analyzed to document VOC sample integrity during shipment of investigative samples from the site to the laboratory for analytical testing. Trip blanks were supplied by the laboratory before the beginning of the investigative field activities. They were stored in the field office trailer during the duration of the field activities.

One trip blank accompanied each cooler housing VOC samples that was shipped to the laboratory during the investigation. A total of 14 trip blanks were submitted for laboratory analysis. Seven of the trip blanks were used for sample shipment during the soil boring and well installation activities (TB-1 through TB-7). The remaining seven trip blanks (TB-40 through TB-46) were used for sample shipment during the comprehensive groundwater sampling event.

As summarized on Table 8, trivial analyte detections were observed across the 14 trip blanks. Chloromethane was detected in three samples, methyl acetate in two samples, and trans 1,3-dichloropropene in one sample. All detections were low level and estimated ('J flag'). These low-level ancillary analyte detections covey that sample integrity was not compromised between collection and delivery to the laboratory.

9.3 Field Blanks

To document the background/ambient site conditions, one field blank (FB-1) was collected during the drilling activities in November 2024. The field blank was collected by pouring laboratory-grade, organic-free, deionized water (provided by the laboratory) into the appropriate sample containers for laboratory analyses. The analysis of the field blank documented the integrity/quality of the water supplied by the laboratory in case erroneous detections are observed from the laboratory analytical results and also document ambient site conditions during sample collection.

As summarized on Table 8, a low-level detection of chloroform (20.3 ug/L) was present in field blank FB-1. This low-level detection is not a concern to the overall focus of the supplemental investigation.

9.4 Equipment Rinsate Blanks

Two equipment rinsate blanks (EB-1 and EB-2) were collected during the monitoring well installation activities. The field blanks were collected by pouring laboratory-grade, organic-free, deionized water (provided by the laboratory) over the decontaminated drilling head of the rotasonic drilling rig and collecting the rinsate into the appropriate sample containers for laboratory analyses. The analyses of the field blanks were used to document the effectiveness of the decontamination activities performed by the drillers.

Low-level detections of chloroform (19.6 ug/L and 18.1 ug/L, respectively) were present in the two rinsate blanks. Total calcium was detected in both samples and total sodium in EB-1, with all metal detections being low-level and not a concern with impact to sample integrity.

10.0 INVESTIGATION-DERIVED WASTE MANAGEMENT

Investigation-Derived Waste (IDW) was generated and managed accordingly during the supplemental investigation and associated sampling activities. Ancillary wastes that were not believed to pose a potential threat to the environment (e.g., soil core liners, disposable gloves, tubing, disposable bailers, rope, paper towels, etc.) were temporarily staged on site in a Construction and Demolition (C&D) rolloff box. One load of C&D waste totaling less than one half of a ton was transported off site to the nearby Waste Management Lake View Landfill on December 30, 2024.

For the drummed aqueous and non-aqueous wastes, new waste profile samples were collected for analysis (IDW-W and IDW-S, respectively) for an extensive analytical suite required by the disposal facilities. The laboratory analytical reports for the two waste profile samples are provided in Attachment E. Once the results were received, they were presented to the waste disposal subcontractor (AWMSI) for dissemination to the disposal facilities. Once approved, coordination for removal of the drums was completed.

From the soil boring and well installation activities, only two soil drums were generated. If soil was believed to not be hazardous, it was spread on site, consistent with previous waste management activities. If deemed hazardous (through field screening and visual observations), the soil was drummed for later off-site disposal. The two hazardous soil drums were transported on December 30, 2024, for treatment and disposal to Ross Incineration Services Inc. in Grafton, OH.

The only other wastes generated were decontamination fluids from the soil boring and well installation activities and purged groundwater from the subsequent well sampling activities. A total of eight drums of non-hazardous water were generated from the supplemental investigation. The eight drums of non-hazardous aqueous waste were transported and disposed at The PennOhio Corporation in Ashtabula, Ohio on December 30, 2024.

Copies of the waste disposal manifests for all materials described above are presented in Attachment F.

11.0 NATURE AND EXTENT OF CONTAMINANT IMPACT

This section was developed to evaluate the various physical and chemical properties of the contaminants detected in soil and groundwater and provide a discussion of the relationship these properties have on influencing the fate and transport of the constituents of concern in the environment.

11.1 Soil

A total of 37 soil samples were collected during the supplemental site investigation from the Lampe Marina Area (21 soil samples), Industrial North Area (nine soil samples), and the Industrial South Area - East Region (seven soil samples).

11.1.1 Lampe Marina Area Soil

Soil borings and sample locations for this area are shown on Figure 4 and the laboratory analytical results are summarized on Table 1. From the 16 soil borings (SB-200 through SB-215) and 21 soil samples collected from this area, 15 of the samples from 11 borings exhibited benzene detections with six of them exhibiting concentrations above criteria (500 ug/kg). Concentrations above criteria ranged from 1,190 ug/kg to 186,000 ug/kg. The only other VOC criteria exceedance was 1,3,5-trimethylbenzene in MW-41-8 at a concentration of 33,500 ug/kg.

Several SVOCs were detected in all but one of the 21 soil samples. Consistent with historical investigation findings, PAHs were the most detected subgroup of SVOCs to exceed criteria in the soil samples and did so for several analytes. SVOC criteria exceedances ranged from one analyte to 13 analytes in the area. A majority of the SVOC criteria exceedances were limited to PAHs, which are a common contaminant artifact of coke production. The analytical results were not surprising, as historically, soils sampled with the presence of coal tar and elevated PID readings translated to elevated VOC and/or SVOC concentrations.

Although several metals also were detected in all 21 samples within this collective area, there were limited metals criteria exceedances. Metals criteria exceedances were limited primarily to thallium, arsenic, and manganese. Thallium exceeded criteria in 15 samples, arsenic in 12 samples, and manganese in six samples.

VOC and SVOC criteria exceedances were exhibited only in soils from the northern half of the Lampe Marina investigation area (see Figure 7 for associated benzene, biphenyl and naphthalene criteria exceedances).

Further evaluation of the analytical data against the associated test boring and well construction logs (Attachments A and C, respectively) conveys similar findings from the previous phases of the investigation in this and other areas on site. Most of the vadose zone soils consist of reworked soil (varying amounts of sand, silt, and clay) and coke/coal breeze intermixed with limited

amounts of manmade/natural materials (e.g., waste cloth, wood, brick, and metal). The presence of these materials at depths ranging from seven to twelve feet below grade and near the water table supports the theory that soil, fill, and waste process materials were systematically and methodically deposited at the historical shoreline of Lake Erie to build up land, dispose of waste, and extend their operational acreage.

At the SB-200 boring location in the campground, no concerning evidence of contamination (i.e., no VOC or SVOC criteria exceedances) was present as soil impact became less prominent as soil borings approached the campground. Dredged material as the foundation of the campground consists primarily of sand, silt, rock, and shells. An overview of the development of the campground through dredgings can be found in Attachment H.

11.1.2 Industrial North Area Soil

Soil borings and sample locations for this area are shown on Figure 5 and the laboratory analytical results are summarized on Table 2. Four soil borings (SB-216, SB-217, SB-218, and SB-220) were advanced in the Industrial North Area to evaluate reported historical contamination along the rail lines coming/leaving the site, and two borings (SB-219 and SB-221) were advanced to evaluate data gaps between wells MW-13 and MW-37. One well boring (MW-45) also was advanced in this area.

Of the nine soil samples collected from this area, four of the samples exhibited VOC concentrations above criteria. Benzene exceeded criteria (500 ug/kg) with concentrations ranging from 539 (J) ug/kg to 976,000 ug/kg. The only other VOC criteria exceedances were toluene (493,000 ug/kg) and 1,3,5-trimethylbenzene (25,300 ug/kg). Both of these exceedances were in the MW-45 soil sample.

Several SVOCs were detected in all nine of the soil samples within this collective area with limited criteria exceedances. Five of the nine samples exhibited at least one SVOC analyte exceeding criteria. SVOC criteria exceedances ranged from two to five analytes and were primarily limited to PAHs (see Figure 8 for associated biphenyl and naphthalene criteria exceedances). As presented above for the Lampe Marina soils, the analytical results from this area also were not surprising, as historically, soils sampled with the presence of coal tar and elevated PID readings translated to elevated VOC and/or SVOC concentrations.

Although several metals also were detected in all nine soil samples within this collective area, there were limited metals criteria exceedances. Metals criteria exceedances were limited to arsenic, chromium, lead, manganese, selenium, and thallium. Arsenic exceeded criteria in six samples, thallium in four samples, chromium in three samples, manganese in two samples, and silver and lead in one sample each.

After review of the associated tables and figures from this area, it appears that the contaminant impact in the Industrial North Area from the supplemental investigation may be a function of historical shoreline extension (see Lampe Marina discussion above) and also poor loading/offloading management and spills at sporadic locations along the rail lines coming/leaving the site from the north. The sporadic impact can be traced along the lines with significant contamination (benzene, naphthalene, and/or other PAHs) in the Industrial North and Lampe Marina areas at/near borings SB-03, SB-101, SB-102, SB-105, SB-107, SB-110, SB-111, SB-05, SB-218, and SB-217 (north to south). Conversely, limited or no contaminant impacted in soils at/near the rail lines were exhibited in soil borings SB-01, SB-02, SB-118, SB-06, SB-220, SB-216, SB-130, and SB-128 (north to south).

Further evaluation of the analytical data against the associated test boring and well construction logs (Attachments A and C, respectively) conveyed similar findings from the previous investigation phases in this area. Most of the vadose zone soils consist of reworked soil and coke/coal breeze intermixed with limited amounts of manmade/natural materials (e.g., wood, unknown white powder). The presence of these materials at depths up to ten feet supports the theory that soil, fill, and waste process materials were systematically and methodically deposited at the historical shoreline of Lake Erie to build up land, dispose of waste, and extend their operational acreage.

This theory is supported by the impact exhibited in soils between the supplemental investigation borings and those further northeast near the shoreline. Further support of this theory was documented in historical photographs and videos along the Lake Erie shoreline during the site survey (Site Investigation Report, July 2023) where waste, fill, and equipment have been dumped at the lake's shoreline.

The lack of consistency in documented contaminant impact in this area supports the sporadic dumping of various waste materials along the continually expanding lake edge. As an example, the white powder (and wood) encountered in soils in MW-45 is not the same as the white fibrous material encountered at depth in nearby MW-13 soils near the shoreline during the previous phase of the investigation.

11.1.3 Industrial South Area – East Region Soil

Soil borings and sample locations for this area are shown on Figure 6 (Industrial South Area – East Region) and the laboratory analytical results are summarized on Table 3. Five soil borings (SB-222 through SB-226) were advanced in an area where a recent review of historical documents by the Department illuded that there may have been waste disposed in this area.

A total of seven soil samples were collected from the soil borings in this area between the depths of four and 16 feet bgs with limited VOC detections and criteria exceedances. Benzene exceeded soil criteria in two samples from one boring (SB-224) with concentrations of 1,030 ug/kg and 1,320 ug/kg (see Figure 9).

Several SVOCs were detected in six of the seven soil samples within this collective area. Three of the seven soil samples exhibited SVOC criteria exceedances limited primarily to PAHs with biphenyl and naphthalene being the most detected to exceed criteria (see Figure 9 for associated biphenyl and naphthalene criteria exceedances).

Although several metals also were detected in all seven samples within this collective area, there were limited metals criteria exceedances. Six of the seven samples exhibited at least one metal analyte with a concentration above criteria. Metals criteria exceedances were limited primarily to manganese, arsenic and thallium.

Consistent with the Lampe Marina and Industrial North Area discussions above, the contaminant impact observed in this area does not appear to be consistent with one source. As shown on Table 3 and Figure 9), the contaminant impact in SB-225 (primarily PAHs) is not consistent with the impact observed in SB-224 (primarily benzene and naphthalene). The soil samples that exhibited contaminant impact above criteria also were collected from different depths.

11.2 Groundwater

From the extensive groundwater investigations and subsequent rounds of groundwater sampling from the 58 monitoring wells, some reasonable observations can be made regarding the nature and extent of contaminant impact in the overburden aquifer. However, it has been well documented that there may be other unknown areas on site where vadose zone contamination may have impacted groundwater quality on a more localized scale.

Extensive pockets of fill and waste buried on a 96-acre (land parcels only) site approaching two hundred years of operational activity between the coke and prior industrial production has blended waste streams into one or more contaminant plumes in the overburden aquifer.

11.2.1 Volatile Organic Compounds

VOCs were detected in approximately 65% of the groundwater monitoring wells with VOC criteria exceedances in over 50% of the wells. Benzene was the most prevalent VOC to exceed criteria in groundwater (over 50% of the wells) with concentrations in many wells being several orders of magnitude over criteria (MW-10D, MW-13, MW-15, MW-16, MW-26S, MW-27D, MW-29, MW-31, MW-36S/D, MW-41, and MW-45). The highest benzene concentration in December 2024 was 629,000 ug/L in MW-13 in the Industrial North Area. Most of the remaining benzene exceedances were approximately two orders of magnitude above the Residential MSC (see Table 7).

Similar to the discussion above for the nature of soil impact sitewide, although benzene impact in groundwater is extensive, it is not believed to be indicative of one source area plume. Rather, the benzene (and other analyte) impact in site groundwater is believed to be a comingling of multiple contaminant plumes from multiple source areas at varying depths (above and below water table).

In order to provide a better understanding of the extent of benzene impact in the overburden aquifer, a benzene isoconcentration map was developed for the December 2024 groundwater sampling event (Figure 12). As shown on the figure, there appears to be five primary well areas with the most elevated benzene concentrations in groundwater including:

- Lampe Marina Area (MW-15, MW-41 and MW-16 areas),
- Industrial North Area (MW-13 and MW-45 areas),
- Industrial South Area – West Region (MW-24 area),
- Industrial South Area – Central Region (MW-29 area), and
- Tank Farm Area (multiple shallow/deep wells).

Benzene concentrations in these areas ranged from over one to five orders of magnitude above criteria (5 ug/L). Although benzene impact is documented in each of these areas, other analyte detections (and visual observations from well borings) support the comingling of multiple plumes theory (e.g., MW-29 near the tank farm exhibited more aggregate benzene, toluene, and xylenes concentrations than any other well on site; MW-13 groundwater was notably more acidic than any other well on site [pH = 2.44]).

Based on the groundwater elevation contour map (Figure 11), and the distribution of benzene in groundwater (Figure 12), it is evident that each of these five benzene impacted areas are independent of each other and are not a result of an expanding plume migration (excluding migration within the Tank Farm Area itself). Rather, the resulting mapping of benzene depicts the site as a function of a number of smaller individual known and unknown source areas contributing to the overall poor groundwater quality beneath the site. The unknown areas are potentially impacted areas yet to be discovered.

Regardless of the number of independent or comingling contaminant plumes across the site, contamination in the overburden aquifer is migrating toward Lake Erie along a majority of the more than 2,000 feet of shoreline that abuts the site. The only exceptions would be in the area near well MW-33, between MW-13 and MW-19S, and between MW-13 and the Lampe Marina area.

In all other wells near the Lake Erie shoreline, VOCs (primarily benzene) exceeded criteria with many detections being orders of magnitude above criteria. The VOC migration off site was not limited to the lakeshore. As evident on the benzene isoconcentration map (Figure 12), VOC impact in groundwater also is present beneath the Lampe Marina parking lot (see MW-40 and MW-41 on Table 7).

After benzene, 1,2,4-trimethylbenzene was the most prominent VOC to exceed criteria (130 ug/L) in December 2024 with exceedances in twelve of the 58 wells. The 1,2,4-trimethylbenzene criteria exceedances generally were exhibited in the same wells that also had benzene criteria

exceedances and were expected as it is also product associated with the carbonization of coal process.

Toluene also was prominent with criteria (1,000 ug/L) exceedances in nine of the 58 wells with the highest toluene concentrations in wells MW-13 (72,900 ug/L) and MW-29 (25,300 ug/L). Every well that exhibited a toluene criteria exceedance also exhibited a benzene criteria exceedance. This was expected as both benzene and toluene are present in high concentrations in coke production (carbonization) byproducts and wastes.

11.2.2 Semi-Volatile Organic Compounds

At least one SVOC analyte was detected in approximately 75% of the 58 groundwater monitoring wells with SVOC criteria exceedances exhibited in approximately 45% of the wells. As expected from historical groundwater analytical results, PAHs were the most common of the SVOCs to be detected and exceed criteria in the monitoring wells during the December 2024 sampling event.

Notable SVOC detections included naphthalene (42 wells), acenaphthylene (33 wells), carbazole (32 wells), fluorene (31 wells), anthracene (28 wells), and fluoranthene (28 wells). Notable SVOC criteria exceedances included naphthalene (24 wells), biphenyl (23 wells), 2-methylnaphthalene (20 wells), carbazole (19 wells), dibenzofuran (13 wells), benzo(a)anthracene (11 wells).

Naphthalene concentrations were over three orders of magnitude above criteria (100 ug/L) in wells MW-26S, MW-27D, MW-10D, MW-41, and MW-36D. Including these five wells, approximately 30% of the wells exhibited naphthalene concentrations greater than one order of magnitude above criteria.

Biphenyl concentrations in approximately 25% of the wells were over one order of magnitude above criteria (0.84 ug/L) with the five highest concentrations being in wells MW-36S, MW-36D, MW-34D, MW-26S, and MW-27D with concentrations ranging from 40.1 ug/L to 64.8 ug/L.

Notable multiple SVOC exceedances were exhibited in wells MW-9D (13 exceedances), MW-36S (12 exceedances), MW-27S (10 exceedances), and MW-15, MW-10D, MW-26S, and MW-27D (all with eight criteria exceedances each). Most of the SVOC criteria exceedances were exhibited in the same wells that also exhibited VOC criteria exceedances.

In order to provide a better understanding of the extent of SVOC impact in the overburden aquifer, two additional isoconcentration maps were developed. The naphthalene (Figure 13) and biphenyl (Figure 14) maps were developed as these two PAHs exhibited a notable number of criteria exceedances during historical groundwater sampling events.

With respect to the naphthalene distribution (Figure 13), the areas with the most elevated naphthalene concentrations in groundwater were similar to the biphenyl distribution (Figure 14).

The most elevated naphthalene levels in groundwater included Lampe Marina Area (MW-15, MW-16, and MW-41 areas), northwest of the Tank Farm (MW-11D area), and the Tank Farm Area (multiple shallow/deep wells). Naphthalene concentrations in some of these areas exceeded two orders of magnitude over criteria (100 ug/L).

Based on the latest groundwater elevation contour map (Figure 11), and the distribution of naphthalene in groundwater (Figure 13), it is believed that each of these more impacted areas are independent of each other and are not a result of an expanding plume migration (excluding within the Tank Farm Area itself). Similar to benzene, the resulting mapping of naphthalene depicts the site as a function of a number of smaller individual source areas contributing to the overall poor groundwater quality beneath the site.

As shown on Figure 14, the areas with the most elevated biphenyl concentrations in groundwater included Lampe Marina Area (MW-15, MW-16, and MW-41 areas), northwest of the Tank Farm (MW-11D area), and the Tank Farm Area (multiple shallow/deep wells). Biphenyl concentrations in these areas were not more than one order of magnitude above criteria.

Based on the latest groundwater elevation contour map (Figure 11), and the distribution of biphenyl in groundwater (Figure 14), it is believed that each of these biphenyl-impacted areas are independent of each other and are not a result of an expanding plume migration (excluding within the Tank Farm itself). Similar to benzene and naphthalene, the resulting mapping of biphenyl depicts the site as a function of a number of smaller individual source areas contributing to the overall poor groundwater quality beneath the site that is ultimately migrating toward the Lake Erie shoreline.

The SVOC migration off site was not limited to the lakeshore. As evident on the naphthalene and biphenyl isoconcentration maps, SVOC impact in groundwater is present beneath part of the Lampe Marina parking lot (see MW-40 and MW-41 on Table 7).

11.2.3 Metals

Although both a total and dissolved metals analysis sample were collected from each well, the discussion below is focuses solely on the dissolved component of the groundwater samples as these data provide a better understanding of groundwater quality without interference.

As expected, several dissolved metals were detected in all 58 of the wells. At least one dissolved metal detection exceeded criteria in approximately 80% of the wells. Wells MW-10S/D, MW-11S, MW-19S/D, MW-21, MW-22S/D, MW-26S, MW-34D, and MW-42 exhibited no metal criteria exceedances during the December 2024 sampling event.

Potassium, sodium, manganese, magnesium, iron, calcium, and barium were the most detected of the dissolved metal constituents with detections in at least 95% of the groundwater samples.

With respect to criteria exceedances, iron and manganese were the most prevalent dissolved metals to exceed criteria with exceedances in over half of the wells, followed by arsenic in 14% wells. The remaining dissolved metals exceeded criteria in four or less wells during the December 2024 sampling event.

Notable manganese concentrations over an order of magnitude above criteria (0.3 mg/L) included MW-16, MW-13, MW-4, MW-36S, MW-39, MW-25, and MW-2. MW-13 exhibited the most dissolved metals criteria exceedances with seven (aluminum, beryllium, chromium, cobalt, iron, lead, and manganese). The seven exceedances in MW-13 were also the highest concentrations for those respective analytes exhibited in any of the December 2024 groundwater samples. After MW-13, all other wells exhibited three or less dissolved metals analyte concentrations above their respective criteria. With metal criteria exceedances in most wells, the extent of select metals impact above criteria in groundwater is across a majority of the site.

11.2.4 General Chemistry

General chemistry also was analyzed in the groundwater well samples and included total acidity, total alkalinity, chloride, nitrate, pH, conductivity, sulfate, total dissolved solids, and turbidity. The general chemistry criteria exceedances were similar to historical sampling data.

As summarized on Table 7, sulfate was the most prevalent of the general chemistry parameters to exceed criteria (250 mg/L) with exceedances in over 70% of the 58 wells and exhibiting an average concentration of over 500 mg/L. The elevated sulfate levels were anticipated in groundwater as ammonium sulfate is produced as a by-product during removal of ammonia from raw coke oven gas. Consistent with the elevated VOC and SVOC concentrations in well MW-13, the sulfate concentration (2,310 mg/L) in MW-13 was the highest of all the groundwater samples, and the pH (2.44) in MW-13 was the lowest of all the groundwater samples collected in December 2024.

11.3 Non-Aqueous Phase Liquid

During implementation of the recent field activities, measurements of both LNAPL and DNAPL were completed in the Tank Farm Area. The individual or multiple sources of the NAPL were not identified in the Tank Farm Area as it could be from multiple tanks and/or transmission lines beneath the ground surface.

Measurable thicknesses of DNAPL were observed in seven of the groundwater wells in the Tank Farm Area in November 2024 (Table 6). LNAPL was not observed in any of the monitoring wells. MW-34D exhibited the greatest thickness of DNAPL with two feet in November, followed by MW-9D (1.8 feet), MW-26S and MW-27D (1.5 feet each), MW-10S (0.79 feet), MW-26D (0.21 feet), and MW-36D (0.17 feet).

DNAPL thicknesses varied significantly between November 2024 and previous measurements. This could be due to several factors including, but not limited to, the method of measurement (discussed previously), NAPL flowing into the open borehole from pockets in the subsurface soil collecting in the annulus, NAPL clogging the well screen slots mitigating stabilization with the surrounding aquifer/NAPL, and delayed flow into the well due to DNAPL characteristics.

After review of the latest NAPL measurements on Table 6 and their locations, it appears that there may be a preferential pathway for DNAPL. The wells with the greatest DNAPL thicknesses are in a fairly straight line through the middle of the Tank Farm Area with the greatest thicknesses being at the western (1.8 feet in MW-9D) and eastern (2.0 feet in MW-34D) limits of the Tank Farm in November 2024. The preferential pathway could be attributed to utility or transfer piping serving as a conduit beneath the Tank Farm. No subsurface historical mapping plans of the Tank Farm Area have been located for review.

One thing of note when measuring the DNAPL across the site is the different physical properties of the DNAPL. In some borings, the nature of the encountered DNAPL was more viscous and 'sticky' whereas other encountered DNAPL was less viscous and appeared more mobile. Unfortunately, there is no documentation of where these DNAPL characteristics were encountered as the differences in the DNAPLs were not observed until near the end of the previous investigation activities.

Although there is a limited amount of accurate DNAPL data available, a DNAPL location map was developed for this report to provide a better understanding of the current limits of DNAPL in the Tank Farm area (Figure 15). Periodic monitoring in the future of the DNAPL in the Tank Farm Area will provide a better understanding of the movement and direction of the DNAPL toward the lakeshore.

Regardless of the chemical and physical properties of the DNAPL, the inferred DNAPL limit on Figure 15 conveys that measurable DNAPL is limited to the Tank Farm Area of the site and does not appear to be a threat to Lake Erie at the present time (discounting the dissolved phase migration discussed previously). The lack of DNAPL in groundwater down gradient wells MW-38D, MW-22S, MW-22D, MW-21, and MW-23 support this conclusion.

12.0 DATA TRENDS

With completion of the December 2024 groundwater sampling event, an attempt was made to identify any data trends that may be present in site groundwater. A multi-phase investigation of the site included installation and sampling of numerous monitoring wells between 2022 and 2024. Because of this, some wells (MW-1, MW-2, MW-3, MW-4, MW-5S/5D, MW-6S/6D, MW-7, MW-8S/8D, MW-9D, MW-10, and MW-11S/D) have up to six groundwater sampling events to identify possible data trends whereas others (MW-39 through MW-45) have only one groundwater sampling event as shown on Table 9.

For purposes of this data trend evaluation, only wells that had a minimum of four sampling events and a minimum of three consecutive upward or downward concentrations through the most recent sampling event were evaluated for possible data trends. The data summary table shown on Table 9 is not all inclusive with respect to the extensive analytical suite analyzed since project inception. Rather, the analytes shown on the table have been selected as they are believed to be representative of the overall groundwater quality at the site and not clutter the function of the table with unnecessary data that has not driven historical investigations to date.

There was difficulty in identifying trends in many samples due to elevated and inconsistent detection limits from the laboratory. In some instances where an analyte was not detected at an elevated detection limit, other analytes in that same sample were still evaluated for possible data trends. If the other analytes exhibited a trend, that same trend was inferred to the other analyte in the sample that exhibited the elevated detection limit. As an example, MW-9D exhibited a downward trend in multiple SVOCs including anthracene from January through December 2024. Similarly, benzo(g,h,i)perylene also exhibited a downward trend in MW-9D with the inference that the lack of detection in April 2024 (at 6 ug/L detection limit) was likely between 6 ug/L and 1.9 ug/L (August 2024 concentration). This inference is supported by similar trends in biphenyl, fluoranthene, fluorene, and phenanthrene in MW-9D.

With 58 wells having between one and six sampling events since 2022, there are numerous upward and downward data trends that have been identified. Obviously, future sampling events would provide additional data to further corroborate (or contradict) the identified data trends. However, it should be noted that some of the trends are not significant and are within the error of sampling and instrument uncertainty. Future monitoring may corroborate minor increasing/decreasing trends or reveal itself as stable results with minor fluctuations over time. A summary of identified data trends through December 2024 is summarized below.

Downward Data Trends:

- MW-5D (Benzene)
- MW-8S (Benzene, Ethylbenzene, O-Xylene, Toluene, Fluoranthene, Naphthalene, Phenanthrene)

- MW-9S (Benzene, Acenaphthylene)
- MW-9D (Ethylbenzene, Acenaphthylene, Anthracene, Benzo(g,h,i)perylene, Biphenyl, Fluoranthene, Fluorene, Phenanthrene)
- MW-10S (Benzene, O-Xylene, Toluene, Acenaphthylene)
- MW-11D (Benzene, Ethylbenzene, O-Xylene)
- MW-12 (M&P Xylenes)
- MW-13 (M&P Xylenes, O-Xylene, Total Xylenes)
- MW-17 (Fluoranthene, Phenanthrene)
- MW-18 (Toluene)
- MW-19D (Benzene, M&P Xylene, O-Xylene, Toluene, Total Xylenes)
- MW-22S (O-Xylene, Styrene, Total Xylenes)
- MW-24 (Benzene, M&P Xylene, Toluene, Total Xylenes)
- MW-27S (Fluorene, Phenanthrene)
- MW-31 (Benzene, Toluene)
- MW-34S (Benzene, Fluoranthene, Fluorene, Naphthalene, Phenanthrene)
- MW-36D (Acenaphthylene)
- MW-37 (Acenaphthene, Fluorene, Naphthalene, Phenanthrene, Pyrene)

Upward Data Trends:

- MW-8D (Acenaphthylene, Anthracene)
- MW-9S (Anthracene)
- MW-10D (Acenaphthene, Biphenyl, Fluorene)
- MW-11D (Naphthalene)
- MW-12 (Ethylbenzene, Fluoranthene)
- MW-13 (Benzene)
- MW-15 (Ethylbenzene, M&P Xylene, O-Xylene, Total Xylenes)
- MW-19D (Ethylbenzene, Isopropylbenzene, Acenaphthene, Anthracene, Fluoranthene, Phenanthrene)
- MW-21 (Acenaphthene)
- MW-22S (Biphenyl, Fluorene, Phenanthrene)
- MW-26S (Benzene)
- MW-27D (Acenaphthene, Anthracene, Fluorene, Naphthalene, Phenanthrene)
- MW-34D (Ethylbenzene, Biphenyl, Fluorene)
- MW-36S (Benzene, Ethylbenzene, M&P Xylene, O-Xylene, Styrene, Toluene, Total Xylenes, Acenaphthene, Anthracene, Biphenyl, Fluoranthene, Fluorene, Phenanthrene)
- MW-36D (M&P Xylene, O-Xylene, Total Xylenes, Biphenyl, Fluorene)

Although most of the data trends identified above bring some value from an investigation perspective, they are strategic when evaluating future remedial alternatives (if any). Identified

trends become validated with additional groundwater data and can be used to formulate more refined preliminary remedial alternatives.

Obviously, the wells and analytes listed in the upward trend are more concerning than those listed with decreasing analytical concentration trends. However, it should be noted that some wells exhibited both a downward trend and an upward trend for different analytes including wells MW-11D, MW-13, MW-19D, MW-22S, and MW-36D. Although the reason for some of the wells that exhibited both increasing and decreasing data trends is unclear, some others may be a function of having multiple and variable sources of contaminant impact. It has been well documented since the initial investigation activities in 2022 that there is an extensive network of smaller and larger individual contaminant source areas throughout the site at varying depths and thicknesses. The remobilization into the groundwater of a small pocket or layer of contamination during intrusive soil boring and/or well installation activities could cause an increase in a particular contaminant concentration. Conversely, this same pocket or layer of contamination may have been cut off from the overburden aquifer during drilling activities causing a methodical decrease in contaminant levels.

The primary focus to trending groundwater analyte concentrations is in wells near the lakeshore, with MW-13 in the Industrial North Area providing the greatest concern. The high level of contamination in soil and groundwater in the general well area has been well documented. Although the well has exhibited a downward trend in all forms of xylene concentrations, the benzene levels, which are the highest on site, have continued to increase for each sampling event in 2024. Benzene levels in MW-13 have increased approximately 60% from January to December 2024 (374,000 ug/L to 629,000 ug/L). With groundwater flow documented to be toward Lake Erie through MW-13, additional sampling of MW-13 should be completed to monitor contaminant concentrations.

Other upward concentration trends were exhibited in wells near the lakeshore but were generally low-level concentrations significantly below criteria (e.g., acenaphthene in MW-21). For wells generally located between the Tank Farm Area and the lakeshore (MW-19S/D, MW-21, MW-22S/D, MW-23, and MW-33), only limited analyte detections exhibited an increasing trend, albeit at generally low-level concentrations. Increasing trends included ethylbenzene, isopropylbenzene, acenaphthene, and anthracene in MW-19D, biphenyl, fluorene, and phenanthrene in MW-22S, and acenaphthene in MW-21. Future monitoring of these wells will better establish if these increasing concentration trends are viable and are a concern to the lakeshore.

13.0 CONCLUSIONS

The conclusions below are provided in a bulletized format for ease of review and discussion. In general, and consistent with previous OBG | Baker investigative reports, it has been concluded that the site is still considered a potential threat to human health and the environment. This previous conclusion has been expanded off site to the northern portions of the Lampe Marina parking lot after completion of the supplemental site investigation.

- The strategic placement and sampling of soil borings and groundwater monitoring wells from the supplemental site investigation were successful in delineating the contaminant impact in the Lampe Marina parking lot.

- Subsurface soils in the northern portions of the Lampe Marina parking lot are impacted with essentially the same VOC (primarily benzene) and SVOC (primarily PAHs) contamination exhibited elsewhere on site. The identification of manmade material at depth (e.g., waste cloth) in the Lampe Marina Area supports the conclusion that the geographic limits of the former Erie Coke facility were continually expanded outward toward, and at, the lakeshore with fill material, operational wastes, and other wastes during its more than one hundred years of operation. It is likely that this same practice took place with previous property owners to Erie Coke.

- The soil contamination in Lampe Marina Area wells MW-15 (on site), MW-40 (off site), and MW-41 (off site) was likely deposited in the same general timeframe to dispose of wastes and extend the operational shoreline of Erie Coke. This conclusion is supported with all three well borings having exhibited the same fill material (e.g., wood and waste cloth) and tarry material near/below the water table.

- Supplemental investigation wells MW-39, MW-40, and MW-41 impacted with VOCs (primarily benzene) and SVOCs (primarily PAHs) above criteria conveys that the groundwater is impacted off site in the Lampe Marina parking lot. While there was no obvious waste material or elevated PID readings to indicate contamination in MW-39 well boring soils, the direct proximity to SB-203, which encountered slag, coke, and coke breeze, may be the source of benzene impact in MW-39 seen in December 2024.

- With no obvious contamination in the MW-39 well boring soils, the benzene impact in MW-39 in December 2024 may be indicative of the contaminant plume migrating further north toward portions of the campground and Lake Erie. However, there is no evidence that the soil or groundwater beneath the campground is currently impacted from site contaminants as no extensive investigation was completed in that area.

- The elevated VOC and SVOC soil concentrations with varying identified subsurface wastes (e.g., white fibers, white powder, wood) in the Industrial North Area indicates that there are multiple waste streams contributing to the overall detrimental effects of groundwater

quality in this area.

- The contamination observed in soil and groundwater in the vicinity of wells MW-13 and MW-45 in the Industrial North Area is believed to have two sources at a minimum. One source being the wastes and fill material used to continually fill in low areas and extend the shoreline to expand Erie Coke's historical operational area. The other source is believed to be from poor housekeeping of railcars, equipment, and/or trucks along the various rail spurs in this, and other areas, on site. With MW-13 being the most contaminated well on site (with respect to VOCs), having manmade contamination at depths above and below the water table, its presence near the lakeshore, and the identification of wastes nearby along the lakeshore bluff/edge, corroborates the conclusion of potentially multiple contaminant sources. MW-13 is the most concerning well on site for the reasons above and that is also has exhibited consecutive increases in benzene levels throughout 2024 that are already five orders of magnitude above criteria (Table 7).

- Consistent with the Lampe Marina and Industrial North Area, the contaminant impact observed in the Industrial South Area – East Region does not appear to have one contaminant source. Contaminant impact and depth in one boring (primarily PAHs) was not consistent with the impact and depth observed in another boring from this area (primarily benzene).

- VOCs were detected in approximately 65% of the groundwater monitoring wells with VOC criteria exceedances in over 50% of the wells. Benzene was the most prevalent VOC to exceed criteria (over 50% of the wells) with many well samples being several orders of magnitude over criteria. This was anticipated as benzene is typically the primary VOC in concentrated byproducts, air emissions, and wastewater from the coke production process. The areas with the most elevated benzene concentrations include Lampe Marina Area, Industrial North Area, and the generalized Tank Farm Area and appear to be independent of each other. Benzene concentrations in these areas ranged from over one to five orders of magnitude above criteria (5 ug/L).

- In addition to benzene, several other VOCs were detected in the groundwater monitoring wells with the most prominent being toluene (25 wells), all forms of xylene (26 wells), ethylbenzene (21 wells), 1,2,4-trimethylbenzene (24 wells), and 1,3,5-trimethylbenzene (21 wells). Toluene generally exceeded criteria only in wells that also exhibited benzene concentrations above criteria. This was expected as both benzene and toluene are present in high concentrations in coke production byproducts and wastes.

- At least one SVOC analyte was detected in approximately 75% of the groundwater monitoring wells with SVOC criteria exceedances in approximately 45% of the wells. PAHs were the most common of the SVOCs to be detected and exceed criteria in the monitoring

wells. Notable SVOC criteria exceedances included naphthalene (24 wells), biphenyl (23 wells), 2-methylnaphthalene (20 wells), carbazole (19 wells), dibenzofuran (13 wells), benzo(a)anthracene (10 wells). These extensive detection and criteria exceedances can all be attributed to the coke production process.

- Isoconcentration mapping of VOCs and SVOCs conveyed that each of the most impacted areas on site are independent of each other and are not a result of an expanding plume migration (excluding within the Tank Farm Area itself). Each of these larger impacted areas are a composite of a number of smaller individual source areas contributing to the overall poor groundwater quality beneath the site that is potentially migrating toward the Lake Erie shoreline.

- There is more than 2,000 feet of shoreline that abuts the site. With a number of independent and comingling contaminant plumes across the site, Lake Erie should be evaluated as a potential receptor of site contamination.

- Several dissolved metals were detected in all groundwater monitoring wells with criteria exceedances of at least one metal exhibited in approximately 80% of the wells. Iron, manganese, and arsenic were the most abundant metals to exceed criteria in the wells. MW-13 exhibited the most metal criteria exceedances (seven) and the highest associated concentrations of those metals in December 2024.

- The measurable DNAPL appears to be limited to the Tank Farm Area and does not appear to be a threat to Lake Erie at the present time as a separate phase layer. The dissolved phase of the contaminant plume in this area is ahead (down gradient) of the DNAPL migration due to many variables including, but not limited to, the viscosity of the DNAPL.

14.0 RECOMMENDATIONS

An extensive volume of analytical, geological, and hydrogeological data from multiple investigations has been generated from project inception in 2022 to completion of the supplemental investigation activities in December 2024. From this extensive database and observations made during all facets of the investigations, recommendations for further investigation work at the site are as follows:

- Continued periodic (quarterly) monitoring of select groundwater wells on and off site. Wells that do not have a history of contaminant impact, or bring little value to future monitoring, would not be included in the proposed sampling network. The primary focus will be on wells in the Lampe Marina Area, Industrial North Area, and the Tank Farm Area where independent groundwater contaminant plumes are migrating toward Lake Erie.

- Although groundwater monitoring is recommended for only select wells on and off site, it still is recommended that water levels continue to be collected from all 58 wells on and off site to provide more precise groundwater flow mapping.

- Continued periodic (quarterly) monitoring of DNAPL in the Tank Farm Area and associated wells is recommended and is proposed to be completed using the same methodology used in November 2024 (rigid piping and string method).

- Because metal detections are ubiquitous throughout the site and are not the primary focus of the previous multiple investigations, it is recommended that total and dissolved metals analyses be eliminated from future monitoring on site. This same recommendation is also proposed for the general chemistry analysis except for pH.

- It is recommended that a new deep well (MW-13D) be nested with MW-13 in the Industrial North Area. The well is exhibiting a concerning trend of significantly increasing benzene concentrations in 2024 (approximately 60% increase). With the MW-13/SB-121 well log having exhibited significant PID readings (2,107 ppm at 17 feet bgs and 867 ppm at 18 feet bgs) at boring terminus during construction in October 2023, it is believed these concerns are sufficient to warrant the additional deeper monitoring well to nest with the shallower MW-13 (approximately 16 feet deep). The well is proposed to be installed at the soil/bedrock interface to be consistent with other deep wells on site.

- With documented SVOC impact above criteria for numerous analytes in sediments near MW-13 (SED-02, SED-03, and SED-09 from September 2022 investigation), it is recommended that additional supplemental sampling be completed of the sediments along the shoreline of Lake Erie, adjacent to MW-13. It is recommended that the sediment sampling be completed at a minimum of twice per year for a minimum of two years to evaluate the continuing impact (if any) to sediments from on-site contaminants.

- Only one sediment sample (SED-07) was collected during the 2022 investigation that is considered down gradient of the Tank Farm Area with several SVOC detections that did not exceed criteria. With the documented groundwater impact to the Tank Farm Area wells and in wells between it and the lakeshore, it is recommended that additional sediment samples also be collected from this area of the lakeshore. Consistent with recommendation above, it is recommended that the sediment sampling be completed at least twice per year for a minimum of two years to evaluate the contaminant impact (if any) to sediments from on-site contaminants.

- It is recommended that recently installed MW-42 in the Lampe Marina parking lot be retrofitted to be a stick-up well instead of a flush mounted well. At the time of well placement, it was unknown that the well was being installed in a low-lying corner of the parking lot causing the well to be submerged with standing water after snow melt or a rain event. Two protective bollards are recommended to be installed with the new stick-up casing.

- The inconsistent and elevated levels of soil contamination observed in the supplemental investigation borings in the Industrial South Area – East Region are believed to warrant further investigation. To be consistent with other areas investigated on site, it is recommended that one groundwater monitoring well be installed and sampled in the vicinity of borings SB-224 and SB-225. With different analytes of concern (VOCs in SB-224 and SVOCs in SB-225) encountered at different sampling depths, it is believed that a well is warranted at each of these locations. Consistent with other wells on site, each well would be completed with two protective bollards at a minimum.

TABLES

TABLE 1

SUMMARY OF DETECTED ANALYTICAL RESULTS - SOIL
LAMPE MARINA AREA
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Soil MSCs [1]	PADEP Nonresidential Subsurface Soil MSCs [2]	MW-40	MW-41	SB-200	SB-201	SB-202	SB-202	SB-203	SB-204	SB-205	SB-206	SB-206	SB-207	SB-208	SB-209	SB-210	SB-210	SB-211	SB-212	SB-213	SB-214	SB-215
Sample ID			MW-40-9	MW-41-8	SB-200-10	SB-201-14	SB-202-11	SB-202-11 DUP	SB-203-10	SB-204-10	SB-205-11	SB-206-12	SB-206-14	SB-207-10	SB-208-9.5	SB-209-8.5	SB-210-9	SB-210-9 DUP	SB-211-11.5	SB-212-11	SB-213-11	SB-214-9	SB-215-7
Date			11/20/2024	11/20/2024	11/13/2024	11/12/2024	11/13/2024	11/13/2024	11/12/2024	11/12/2024	11/13/2024	11/12/2024	11/12/2024	11/14/2024	11/12/2024	11/14/2024	11/12/2024	11/12/2024	11/14/2024	11/13/2024	11/14/2024	11/13/2024	11/13/2024
Sample Depth (ft bgs)			9.0	8.0	10.0	14.0	11.0	11.0	10.0	10.0	11.0	12.0	14.0	10.0	9.5	8.5	9.0	9.0	11.5	11.0	11.0	9.0	7.0
Volatile Organic Compounds (µg/kg) [3]																							
1,2,4-Trimethylbenzene	73,000	300,000	**5,600**	**46,100**	**37** J	58.6 U	**1.7** J	**1.2** J	2,760 U	**489** J	**34.8** J	**2,050** J	**47.3** J	**59.4** J	**33.2** J	50.6 U	2.9 U	3.2 U	56.7 U	**0.72** J	56.7 U	2.9 U	**0.67** J
1,3,5-Trimethylbenzene	23,000	93,000	**3,440**	**33,500**	**11.3** J	**13.3** J	**2.1** J	**1.4** J	2,760 U	**356** J	**15.4** J	3,840 U	**17.6** J	**43.3** J	66.9 U	50.6 U	2.9 U	3.2 U	56.7 U	2.3 U	56.7 U	2.9 U	2.2 U
2-Butanone	400,000	400,000	21,000 U	161,000 U	432 U	586 U	**18.6**	**11.3** J	27,600 U	7,810 U	705 U	38,400 U	598 U	1,180 U	669 U	506 U	14.4 U	15.8 U	567 U	11.7 U	567 U	**21.2**	11.1 U
Acetone	3,100,000	8,800,000	21,000 U	161,000 U	432 U	586 U	**82.3**	**53**	27,600 U	7,810 U	705 U	38,400 U	598 U	1,180 U	669 U	506 U	14.4 U	15.8 U	567 U	**18**	567 U	**121**	11.1 U
Benzene	500	500	**13,100**	**186,000**	43.2 U	**305**	3.5 U	**1.1** J	**3,740**	**16,500**	**41.7** J	**62,000**	**447**	**71.7** J	**1,190**	50.6 U	2.9 U	**1.1** J	**28.1** J	**2** J	56.7 U	2.9 U	**1.5** J
Bromomethane	1,000	1,000	2,100 U	16,100 U	**23.2** J	**34.1** J	3.5 U	3 U	2,760 U	781 U	**34.2** J	3,840 U	**28.2** J	**81.3** J	**26.5** J	50.6 U	**27.4**	3.2 U	**29.5** J	2.3 U	**37.6** J	2.9 U	2.2 U
Carbon Disulfide	150,000	620,000	2,100 U	16,100 U	43.2 U	**18.1** J	**2** J	**1.3** J	2,760 U	781 U	70.5 U	3,840 U	59.8 U	**78.1** J	**17.2** J	**11.8** J	2.9 U	3.2 U	56.7 U	**5.2**	56.7 U	**1.2** J	2.2 U
Cyclohexane	1,700,000	6,900,000	2,100 U	16,100 U	**30.7** J	58.6 U	**1.7** J	**1.6** J	2,760 U	781 U	70.5 U	3,840 U	59.8 U	118 U	**22.4** J	50.6 U	2.9 U	3.2 U	56.7 U	**3**	56.7 U	2.9 U	2.2 U
Ethylbenzene	70,000	70,000	**1,100** J	**11,200** J	43.2 U	58.6 U	3.5 U	3 U	2,760 U	**1,240**	70.5 U	**3,470** J	59.8 U	118 U	**52.5** J	50.6 U	2.9 U	3.2 U	56.7 U	2.3 U	56.7 U	2.9 U	2.2 U
Isopropylbenzene	600,000	2,500,000	2,100 U	16,100 U	**10.5** J	58.6 U	**4**	**3.8**	2,760 U	781 U	**20.9** J	3,840 U	**21.8** J	118 U	**15.2** J	50.6 U	2.9 U	3.2 U	56.7 U	2.3 U	56.7 U	2.9 U	2.2 U
Methyl acetate	3,500,000	9,700,000	4,190 U	32,100 U	**69.1** J	**68.8** J	3.5 U	3 U	5,520 U	1,560 U	**75.3** J	7,670 U	**76.7** J	**533**	**123** J	**65.8** J	2.9 U	3.2 U	**73.7** J	2.3 U	**47.5** J	2.9 U	2.2 U
Methyl cyclohexane	NE	NE	2,100 U	16,100 U	**143**	**33.2** J	**3.4** J	**2.2** J	2,760 U	**305** J	**31.4** J	3,840 U	**34.4** J	**151**	**87**	**47.9** J	2.9 U	3.2 U	**69**	**4.3**	**158**	2.9 U	**1.2** J
Methylene Chloride	500	500	2,100 U	16,100 U	43.2 U	58.6 U	**2.3** J	**1.9** J	2,760 U	781 U	70.5 U	3,840 U	59.8 U	118 U	66.9 U	50.6 U	2.9 U	**1.4** J	56.7 U	**1.8** J	56.7 U	**1.8** J	**3.4**
m&p-Xylene [4]	1,000,000 [5]	1,000,000 [5]	**4,900**	**129,000**	**40.9** J	**68.3** J	7.1 U	6 U	5,520 U	**1,010** J	**54.3** J	7,670 U	**53.1** J	**118** J	**95.9** J	101 U	5.8 U	6.3 U	**45.9** J	4.7 U	113 U	5.7 U	4.4 U
o-Xylene	1,000,000 [5]	1,000,000 [5]	**1,970** J	**50,400**	**31.7** J	**19.8** J	**2.7** J	**2.3** J	2,760 U	**441** J	70.5 U	3,840 U	**23.5** J	**55.3** J	**40.3** J	50.6 U	2.9 U	3.2 U	**20.6** J	**1.3** J	56.7 U	2.9 U	**1.2** J
Styrene	24,000	24,000	**1,550** J	**7,780** J	43.2 U	58.6 U	3.5 U	3 U	2,760 U	781 U	70.5 U	3,840 U	59.8 U	118 U	66.9 U	50.6 U	2.9 U	3.2 U	56.7 U	2.3 U	56.7 U	2.9 U	2.2 U
Toluene	100,000	100,000	**4,930**	**65,400**	**31.5** J	**116**	3.5 U	3 U	**1,190** J	**1,150**	**49.1** J	3,840 U	**37.8** J	**304**	**225**	50.6 U	2.9 U	3.2 U	**74.9**	2.3 U	**25.8** J	2.9 U	2.2 U
Total Xylenes	1,000,000	1,000,000	**6,870**	**179,000**	**72.6** J	**88** J	**2.7** J	**2.3** J	8,280 U	**1,450** J	**75.5** J	11,500 U	**76.6** J	**173** J	**136** J	152 U	8.7 U	9.5 U	**66.5** J	7 U	170 U	8.6 U	6.6 U
Semi-Volatile Organic Compounds (µg/kg) [6]																							
2,4-Dimethylphenol	69,000	190,000	**1,020**	**7,440**	816 U	**43.6** J	1,160 U	1,130 U	**256** J	**6,820**	1,170 U	**597** J	1,030 U	1,180 U	1,050 U	863 U	900 U	935 U	864 U	915 U	905 U	1,110 U	833 U
2,6-Dinitrotoluene	43	180	**2,690**	503 U	408 U	99.6 U	578 U	564 U	474 U	526 U	584 U	593 U	516 U	590 U	524 U	432 U	450 U	467 U	432 U	458 U	453 U	556 U	417 U
2-Methylnaphthalene	25,000	100,000	**44,200**	**612,000**	**385** J	**462**	**311** J	**910**	**7,410**	**216,000**	**1,670**	**6,560**	**3,200**	**1,020**	**647**	432 U	**216** J	**220** J	**103** J	**306** J	**225** J	**305** J	**83.8** J
Acenaphthene	2,600,000	4,700,000	**8,060**	**47,400**	**156** J	**1,580**	**208** J	**505**	**14,900**	**309,000**	**1,680**	**11,700**	**2,370**	**1,020**	**3,200**	216 U	**157** J	**120** J	216 U	229 U	226 U	278 U	208 U
Acenaphthylene	2,400,000	6,600,000	**85,800**	**775,000**	**136** J	**1,760**	**143** J	**365**	**9,080**	**133,000**	**424**	**1,830**	**2,810**	**1,140**	**2,200**	216 U	**601**	**842**	216 U	**233**	**103** J	**351**	**436**
Acetophenone	350,000	970,000	457 U	**6,140**	408 U	**106**	578 U	564 U	**1,690**	526 U	584 U	**143** J	516 U	590 U	524 U	432 U	450 U	467 U	432 U	458 U	453 U	556 U	417 U
Anthracene	350,000	350,000	**103,000**	**625,000**	**510**	**4,750**	**423**	**1,190**	**22,000**	**377,000**	**1,770**	**7,030**	**6,240**	**2,530**	**7,200**	216 U	**724**	**937**	**149** J	**348**	**152** J	**527**	**357**
Benzo(a)anthracene	6,100	340,000	**88,500**	**443,000**	**870**	**13,900**	**839**	**2,050**	**21,800**	**241,000**	**2,250**	**8,000**	**8,580**	**4,380**	**9,540**	216 U	**1,380**	**2,020**	**361**	**639**	**420**	**1,190**	**1,340**
Benzo(a)pyrene	4,200	46,000	**74,100**	**354,000**	**905**	**14,700**	**771**	**1,610**	**19,300**	**145,000**	**1,940**	**6,960**	**6,250**	**3,880**	**7,980**	216 U	**1,380**	**2,240**	**277**	**568**	**376**	**1,260**	**1,680**
Benzo(b)fluoranthene	3,500	170,000	**60,600**	**297,000**	**906**	**15,000**	**700**	**1,580**	**16,800**	**109,000**	**1,870**	**6,390**	**5,550**	**3,300**	**6,920**	216 U	**1,210**	**2,150**	**276**	**544**	**370**	**1,060**	**1,500**
Benzo(g,h,i)perylene	180,000	180,000	**35,200**	**156,000**	**498**	**8,550** J	**449**	**794**	**9,040**	**67,600**	**862**	**3,410**	**2,760**	**1,820**	**3,870**	216 U	**774**	**1,350**	**226**	**315**	**286**	**633**	**973**
Benzo(k)fluoranthene	3,500	610,000	**60,000**	**306,000**	**788**	**7,970** J	**556**	**1,320**	**16,900**	**116,000**	**1,650**	**5,790**	**5,470**	**3,310**	**6,960**	216 U	**1,170**	**1,880**	**230**	**525**	**372**	**1,100**	**1,520**
Biphenyl	370	1,500	**11,600**	**130,000**	408 U	**168**	578 U	**138** J	**2,580**	**61,700**	**162** J	**1,340**	**418** J	**203** J	**154** J	432 U	450 U	467 U	432 U	458 U	453 U	556 U	417 U
Caprolactam	NE	NE	914 U	1,010 U	816 U	**89.1** J	1,160 U	1,130 U	947 U	1,050 U	1,170 U	1,190 U	1,030 U	1,180 U	1,050 U	863 U	900 U	935 U	864 U	915 U	905 U	1,110 U	833 U
Carbazole	21,000	89,000	**35,900**	**269,000**	408 U	**2,190**	578 U	**216** J	**7,510**	**169,000**	**288** J	**9,320**	**2,130**	**505** J	**1,870**	432 U	**144** J	**207** J	432 U	458 U	453 U	**101** J	**101** J
Chrysene	35,000	230,000	**82,000**	**449,000**	**1,020**	**13,800**	**937**	**2,230**	**22,200**	**229,000**	**2,500**	**8,350**	**8,880**	**4,740**	**9,630**	216 U	**1,450**	**2,160**	**393**	**676**	**504**	**1,330**	**1,450**
Dibenzo(a,h)anthracene	1,000	270,000	**10,900**	**51,000**	204 U	**2,860**	**138** J	282 U	**2,640**	**30,000**	**287** J	**1,100**	**1,140**	**576**	**1,190**	216 U	**227**	**381**	216 U	229 U	**101** J	278 U	**277**
Dibenzofuran	90,000	250,000	**62,000**	**487,000**	**207** J	**1,210**	**209** J	**578**	**16,500**	**223,000**	**1,050**	**8,590**	**3,200**	**624**	**1,310**	432 U	**134** J	**137** J	432 U	**106** J	**122** J	**145** J	**93.7** J
Fluoranthene	3,200,000	3,200,000	**280,000**	**1,370,000**	**2,420**	**30,900**	**2,040**	**5,240**	**67,400**	**896,000**	**6,720**	**21,600**	**20,200**	**12,000**	**25,700**	216 U	**3,260**	**4,560**	**683**	**1,420**	**716**	**3,130**	**2,280**
Fluorene	2,800,000	3,800,000	**114,000**	**777,000**	**247**	**2,830**	**452**	**1,070**	**31,000**	**350,000**	**1,770**	**13,500**	**7,610**	**1,060**	**3,720**	216 U	**255**	**258**	**105** J	**144** J	**131** J	**173** J	**92.6** J
Hexachlorobutadiene	10,000	42,000	457 U	**265** J	408 U	**38.2** J	578 U	564 U	474 U	**154** J	584 U	593 U	516 U	590 U	524 U	432 U	450 U	467 U	432 U	458 U	453 U	556 U	417 U
Indeno(1,2,3-cd)pyrene	3,500	18,000,000	**40,700**	**188,000**	**464**	**8,150** J	**363**	**782**	**10,100**	**72,100**	**946**	**3,830**	**3,040**	**1,890**	**4,250**	216 U	**802**	**1,380**	**202** J	**326**	**279**	**637**	**1,040**
m&p-Cresol [7]	17,000 [8]	49,000 [8]	**2,950**	**8,550**	816 U	**81.5** J	**210** J	**287** J	**482** J	**4,510**	1,170 U	**413** J	**677** J	**242** J	1,050 U	863 U	900 U	935 U	864 U	915 U	905 U	1,110 U	833 U
Naphthalene	13,000	25,000	**199,000**	**3,600,000** E	**325**	**1,750**	**637**	**1,660**	**188,000**	**1,330,000**	**14,100**	**193,000**	**9,100**	**2,890**	**2,300**	216 U	**452**	**629**	**162** J	**405**	**316**	**418**	**392**
o-Cresol	170,000	490,000	**1,360**	**4,490**	816 U	199 U	1,160 U	1,130 U	947 U	1,050 U	1,170 U	1,190 U	1,030 U	1,180 U	1,050 U	863 U	900 U	935 U	864 U	915 U	905 U	1,110 U	833 U
Phenanthrene	10,000,000	10,000,000	**340,000**	**2,020,000**	**1,460**	**12,100**	**1,520**	**4,390**	**96,200**	**1,040,000**	**6,520**	**33,100**	**23,700**	**5,990**	**19,700**	216 U	**2,080**	**2,420**	**569**	**1,050**	**515**	**1,520**	**957**
Phenol	200,000	200,000	**4,420**	**7,340**	816 U	199 U	1,160 U	1,130 U	**647** J	**5,290**	1,170 U	**572** J	1,030 U	1,180 U	1,050 U	863 U	900 U	935 U	864 U	915 U	905 U	1,110 U	833 U
Pyrene	2,200,000	2,200,000	**182,000**	**890,000**	**1,540**	**24,500**	**1,230**	**3,120**	**65,000**	**542,000**	**4,120**	**14,300**	**13,100**	**7,270**	**17,900**	216 U	**2,270**	**3,200**	**528**	**998**	**589**	**1,980**	**1,420**

TABLE 1

SUMMARY OF DETECTED ANALYTICAL RESULTS - SOIL
LAMPE MARINA AREA
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Soil MSCs [1]	PADEP Nonresidential Subsurface Soil MSCs [2]	MW-40	MW-41	SB-200	SB-201	SB-202	SB-202	SB-203	SB-204	SB-205	SB-206	SB-206	SB-207	SB-208	SB-209	SB-210	SB-210	SB-211	SB-212	SB-213	SB-214	SB-215
Sample ID			MW-40-9	MW-41-8	SB-200-10	SB-201-14	SB-202-11	SB-202-11 DUP	SB-203-10	SB-204-10	SB-205-11	SB-206-12	SB-206-14	SB-207-10	SB-208-9.5	SB-209-8.5	SB-210-9	SB-210-9 DUP	SB-211-11.5	SB-212-11	SB-213-11	SB-214-9	SB-215-7
Date			11/20/2024	11/20/2024	11/13/2024	11/12/2024	11/13/2024	11/13/2024	11/12/2024	11/12/2024	11/13/2024	11/12/2024	11/12/2024	11/14/2024	11/12/2024	11/14/2024	11/12/2024	11/12/2024	11/14/2024	11/13/2024	11/14/2024	11/13/2024	11/13/2024
Sample Depth (ft bgs)			9.0	8.0	10.0	14.0	11.0	11.0	10.0	10.0	11.0	12.0	14.0	10.0	9.5	8.5	9.0	9.0	11.5	11.0	11.0	9.0	7.0
Metals (mg/kg)																							
Aluminum	190,000 [9]	190,000 [9]	**8,030**	**9,130**	**7,050**	**14,800**	**10,600**	**9,520**	**5,830**	**5,960**	**8,920**	**7,820**	**6,460**	**16,200**	**7,760**	**10,100**	**8,770**	**5,780**	**10,800**	**9,560**	**11,900**	**7,140**	**7,800**
Antimony	27	27	12.7 U	12.2 U	4.4 U	2.3 U	**6.9**	**4.9**	4.9 U	5.3 U	**2.2** J	2.8 U	2.6 U	14.8 U	2.5 U	12.2 U	2.4 U	2.6 U	11.7 U	**1.1** J	11.7 U	**3.4** J	**3.3** J
Arsenic	12	29	**13.2**	**16.5**	**16.3**	**15**	**22.1**	**17**	**10.8**	**25.5**	**14.9**	**8.2**	**10**	**21**	**10.7**	**18.8**	**7.3**	**6.2**	**20**	**6.7**	**30.2**	**9**	**11.5**
Barium	8,200	8,200	**186**	**115**	**51.1**	**73.2**	**58.5**	**51**	**95**	**101**	**50.4**	**67**	**43.2**	**162**	**83.1**	**46.7**	**103**	**70.9**	**57.8**	**79.1**	**119**	**88.6**	**137**
Beryllium	320	320	6.4 U	**2.1** J	2.2 U	**0.7** J	**0.9** J	**0.81** J	**1.1** J	**1.5** J	**0.95** J	**1.1** J	**0.69** J	**3.3** J	**1.2** J	6.1 U	**1.3**	**0.94** J	5.8 U	**1.1** J	5.8 U	**1.2** J	**1.4** J
Cadmium	38	38	**2.3** J	**2.5** J	**1** J	**0.89**	**9.2**	**6.5**	**4.4**	**2.7**	**3.3**	**1.9**	**2**	3.7 U	**1.3**	3 U	**1.4**	**1.2**	2.9 U	**0.94**	2.9 U	**2.6**	**3.1**
Calcium	NE	NE	**26,000**	**56,800**	**16,400**	**11,400**	**12,500**	**12,700**	**17,300**	**27,600**	**30,500**	**32,600**	**13,200**	**75,600**	**41,200**	**6,830**	**62,900**	**44,600**	**12,600**	**18,900**	**69,400**	**132,000**	**129,000**
Chromium	37 [10]	190 [10]	**29**	**55**	**13.3**	**18.6**	**35.7**	**29.4**	**36**	**41.6**	**38.1**	**19.2**	**18.5**	**45.5**	**17.1**	**14.9**	**17**	**18.9**	**17**	**10.9**	**19.2**	**22.2**	**24.2**
Cobalt	45	130	**10**	**13.5**	**12**	**23.1**	**29.2**	**27.9**	**37.5**	**42.4**	**27.5**	**19.9**	**13.9**	**17.4**	**19.6**	**7.1**	**14.8**	**12.4**	**10.9**	**7.4**	**18.8**	**21.1**	**23.4**
Copper	7,200	43,000	**71**	**62.6**	**39.6**	**27.5**	**93**	**76.2**	**54**	**68.3**	**91.5**	**59.5**	**35.9**	**71**	**47.9**	**25.7**	**37.7**	**50.1**	**31.8**	**19.4**	**37.9**	**40**	**57.7**
Iron	150,000 [9]	190,000 [9]	**51,400**	**66,300**	**21,900**	**32,200**	**39,900**	**35,900**	**86,000**	**84,400**	**60,200**	**34,300**	**21,300**	**47,300**	**29,600**	**27,300**	**30,300**	**27,900**	**35,200**	**18,600**	**74,400**	**74,200**	**87,100**
Lead	450	450	**622**	**176**	**49.6**	**16.1**	**106**	**127**	**130**	**199**	**87.9**	**63.4**	**56.9**	**48.8**	**34.7**	**15.2**	**53.4**	**41.5**	**24.9**	**39.7**	**48**	**69.5**	**51.9**
Magnesium	NE	NE	**8,000**	**24,500**	**5,820**	**8,280**	**8,130**	**7,890**	**2,840**	**9,470**	**11,700**	**11,900**	**6,170**	**20,500**	**7,410**	**4,810**	**10,800**	**6,970**	**5,390**	**2,630**	**13,300**	**19,100**	**15,000**
Manganese	2,000	2,000	**3,830**	**4,600**	**405**	**309**	**441**	**429**	**6,230**	**3,380**	**906**	**1,050**	**311**	**1,550**	**1,070**	**244**	**1,090**	**887**	**587**	**564**	**1,950**	**2,350**	**4,300**
Mercury	10	10	**0.12**	**1**	**0.071**	**0.053**	**0.44**	**0.41**	**0.65**	**0.16**	**0.26**	**0.31**	**0.29**	**0.28**	**0.18**	**0.03** J	**0.19**	**0.2**	**0.076**	**0.091**	**0.056**	**0.03** J	**0.12**
Nickel	650	650	**17**	**26.7**	**21.8**	**27.5**	**38.7**	**33**	**16.6**	**23.1**	**35.2**	**17.4**	**18.2**	**28.4**	**26.1**	**23.1**	**10.9**	**10.9**	**22.4**	**11**	**22**	**13.8**	**15.2**
Potassium	NE	NE	**742**	**985**	**783**	**2,390**	**1,320**	**1,130**	**737**	**689**	**903**	**765**	**923**	**1,420**	**1,960**	**1,190**	**1,740**	**801**	**969**	**6,610**	**1,170**	**1,630**	**1,280**
Selenium	26	26	31.8 U	30.4 U	**5.1** J	**5.5** J	**6.8** J	**4.4** J	12.3 U	**6.5** J	**6.5** J	**6.6** J	**3.6** J	37 U	**5.6** J	30.5 U	**7.2**	**6.3** J	29.2 U	**2.6** J	29.2 U	**6.2** J	**6.6** J
Silver	84	84	3.2 U	3 U	1.1 U	0.57 U	**0.73** J	**0.49** J	1.2 U	1.3 U	**0.62** J	0.7 U	0.65 U	3.7 U	0.63 U	3 U	0.61 U	0.64 U	2.9 U	0.59 U	2.9 U	1.3 U	1.1 U
Sodium	NE	NE	**256** J	**592**	**123**	**115**	**217**	**187**	**269**	**274**	**180**	**178**	**119**	**599**	**251**	**237** J	**480**	**241**	**223** J	**1,550**	**328**	**465**	**381**
Thallium	2.2	14	19.1 U	18.2 U	**2.5** J	**4**	**3** J	**2.5** J	**3.5** J	**7.7** J	**6.9**	**4.6**	**3** J	22.2 U	**2.7** J	18.3 U	**3.4** J	**2.8** J	17.5 U	3.5 U	**6.1** J	**5.2** J	**4.1** J
Vanadium	1,100	49,000	**40.8**	**57.7**	**17.4**	**26.3**	**23.6**	**19.6**	**49.6**	**54.3**	**23.3**	**12.2**	**14**	**19.2**	**14.5**	**18.4**	**14.7**	**12.7**	**17.2**	**14.1**	**18.3**	**28.2**	**32**
Zinc	12,000	12,000	**285**	**247**	**113**	**94.8**	**304**	**273**	**1,610**	**281**	**330**	**211**	**149**	**173**	**138**	**87.1**	**241**	**337**	**116**	**107**	**220**	**289**	**361**

Notes/Qualifiers:

µg/kg - microgram per kilogram
ft bgs - ft below ground surface
E - result exceeded calibration range
J - result is less than the RL but greater than or equal to the MDL; estimated
MDL - Method Detection Limit
mg/kg - milligram per kilogram
MSC - Medium-Specific Concentration
MW - Monitoring Well
NE - Not Established
PADEP - Pennsylvania Department of Environmental Protection
RL - Reporting Limit
SB - Soil Boring
SVOC - Semi-volatile Organic Compound
TDS - Total Dissolved Solids
U - Not Detected
VOC - Volatile Organic Compound

Bolded - Concentration is detected in the sample
Shaded - Detected concentration exceeds the PADEP Residential Soil MSC
Boxed - Detected concentration exceeds the PADEP Nonresidential Soil MSC

It is noted that several of the non-detect results have reporting limits that exceed the respective screening criteria.

[1] - PADEP Residential MSCs are determined by the lower of the residential Direct Contact and residential Soil-to-Groundwater (Used aquifer; TDS≤2500) values. The Soil-to-Groundwater value is determined by the higher of the 100x Groundwater MSC and Generic Value.
[2] - PADEP Nonresidential MSCs are determined by the lower of the nonresidential Direct Contact and nonresidential Soil-to-Groundwater (Used aquifer; TDS≤2500) values. The Soil-to-Groundwater value is determined by the higher of the 100x Groundwater MSC and Generic Value.
[3] - An additional 38 VOCs were analyzed for, but not detected.
[4] - Not a single chemical but a mixture of the isomers m-xylene and p-xylene.
[5] - Total Xylene used as a surrogate.
[6] - An additional 40 SVOCs were analyzed for, but not detected.
[7] - Not a single chemical but a mixture of the isomers m-cresol and p-cresol.
[8] - p-Cresol used as a surrogate.
[9] - Secondary Maximum Contaminant Level (SMCL)
[10] - Chromium VI used as a surrogate.

TABLE 2

SUMMARY OF DETECTED ANALYTICAL RESULTS - SOIL
INDUSTRIAL NORTH AREA
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Soil MSCs [1]	PADEP Nonresidential Subsurface Soil MSCs [2]	MW-45	SB-216	SB-217	SB-217	SB-218	SB-219	SB-220	SB-220	SB-221
Sample ID			MW-45-10	SB-216-7	SB-217-3	SB-217-6	SB-218-7	SB-219-8.5	SB-220-10	SB-220-10 DUP	SB-221-9
Date			11/21/2024	11/14/2024	11/15/2024	11/15/2024	11/15/2024	11/15/2024	11/15/2024	11/15/2024	11/15/2024
Sample Depth (ft bgs)			10.0	7.0	3.0	6.0	7.0	8.5	10.0	10.0	9.0
Volatile Organic Compounds (µg/kg) [3]											
1,2,4-Trimethylbenzene	73,000	300,000	**31,000**	**40** J	**1,190**	**1,090**	103 U	**125**	**37.9** J	71.5 U	**92.7**
1,3,5-Trimethylbenzene	23,000	93,000	**25,300**	**28** J	**1,950**	**685** J	103 U	**40.8** J	**16.1** J	71.5 U	**46.1** J
Benzene	500	500	**976,000**	**65.5**	**539** J	**3,890**	**82.6** J	**40.5** J	78.7 U	71.5 U	**678**
Bromomethane	1,000	1,000	9,110 U	**27** J	961 U	765 U	**83.4** J	**47.1** J	**53.6** J	**44.5** J	**46.4** J
Cyclohexane	1,700,000	6,900,000	9,110 U	**68.4**	961 U	765 U	103 U	**260**	**33.7** J	**26.5** J	**133**
Ethylbenzene	70,000	70,000	**37,400**	50.5 U	961 U	**622** J	103 U	**54.1** J	78.7 U	71.5 U	**61.5**
Isopropylbenzene	600,000	2,500,000	**3,090** J	50.5 U	961 U	**195** J	103 U	**40** J	78.7 U	71.5 U	**14** J
Methyl acetate	3,500,000	9,700,000	18,200 U	**83.1** J	**506** J	**424** J	**95.8** J	**118** J	**134** J	**105** J	**63** J
Methyl cyclohexane	NE	NE	**12,300**	**294**	**497** J	**1,550**	**93.8** J	**1,080**	**169**	**124**	**538**
m&p-Xylene [4]	1,000,000 [5]	1,000,000 [5]	**363,000**	**69** J	**4,060**	**1,210** J	**108** J	**264**	**47.8** J	143 U	**884**
o-Xylene	1,000,000 [5]	1,000,000 [5]	**132,000**	**44.6** J	**1,830**	**2,060**	**44.9** J	**204**	**36.8** J	**24.5** J	**213**
Toluene	100,000	100,000	**493,000**	**47.8** J	**1,010**	**535** J	**150**	**176**	**36.4** J	**22.6** J	**467**
Total Xylenes	1,000,000	1,000,000	**496,000**	**114** J	**5,880**	**3,270**	**153** J	**468**	**84.6** J	**56.5** J	**1,100**
Trichloroethene	500	500	9,110 U	50.5 U	961 U	765 U	103 U	60.8 U	**54.3** J	**30.6** J	58.2 U
Semi-Volatile Organic Compounds (µg/kg) [6]											
1,2,4,5-Tetrachlorobenzene	4,600	13,000	510 U	442 U	**281** J	533 U	477 U	121 U	565 U	506 U	114 U
2,4-Dimethylphenol	69,000	190,000	**2,300**	884 U	860 U	**958** J	**728** J	241 U	1,130 U	1,010 U	**53.3** J
2-Methylnaphthalene	25,000	100,000	**3,190**	**202** J	**2,450**	**3,180**	**2,340**	**688**	**1,530**	**1,460**	**5,350**
Acenaphthene	2,600,000	4,700,000	**229** J	221 U	**361**	**224** J	**389**	60.4 U	**272** J	**134** J	**176**
Acenaphthylene	2,400,000	6,600,000	255 U	221 U	**1,610**	**380**	**1,410**	60.4 U	**484**	**301**	**511**
Acetophenone	350,000	970,000	**27,900**	442 U	**823**	**14,200**	477 U	**62.6** J	**149** J	**116** J	**137**
Anthracene	350,000	350,000	**806**	221 U	**2,130**	**778**	**2,680**	**75.5**	**962**	**506**	**2,230**
Benzo(a)anthracene	6,100	340,000	**1,420**	**108** J	**5,010**	**2,200**	**3,680**	**222**	**2,780**	**1,520**	**5,010**
Benzo(a)pyrene	4,200	46,000	**852**	221 U	**3,720**	**1,170**	**2,980**	**213**	**3,050**	**1,530**	**4,530**
Benzo(b)fluoranthene	3,500	170,000	**1,360**	221 U	**4,240**	**1,730**	**2,600**	**274**	**2,910**	**1,530**	**4,810**
Benzo(g,h,i)perylene	180,000	180,000	**838**	**85.2** J	**2,690**	**1,050**	**1,740**	**147**	**2,170**	**1,200**	**2,360**
Benzo(k)fluoranthene	3,500	610,000	**1,140**	221 U	**4,060**	**1,620**	**2,630**	**198**	**2,580**	**1,360**	**4,130**
Biphenyl	370	1,500	**585**	442 U	**535**	**817**	**439** J	**76** J	**225** J	**202** J	**844**
bis(2-Ethylhexyl)phthalate	130,000	130,000	510 U	442 U	**101** J	533 U	477 U	121 U	565 U	506 U	114 U
Carbazole	21,000	89,000	**291** J	442 U	**1,410**	**293** J	**1,130**	**43.5** J	**649**	**294** J	**708**

TABLE 2

SUMMARY OF DETECTED ANALYTICAL RESULTS - SOIL
INDUSTRIAL NORTH AREA
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Soil MSCs [1]	PADEP Nonresidential Subsurface Soil MSCs [2]	MW-45	SB-216	SB-217	SB-217	SB-218	SB-219	SB-220	SB-220	SB-221
Sample ID			MW-45-10	SB-216-7	SB-217-3	SB-217-6	SB-218-7	SB-219-8.5	SB-220-10	SB-220-10 DUP	SB-221-9
Date			11/21/2024	11/14/2024	11/15/2024	11/15/2024	11/15/2024	11/15/2024	11/15/2024	11/15/2024	11/15/2024
Sample Depth (ft bgs)			10.0	7.0	3.0	6.0	7.0	8.5	10.0	10.0	9.0
Semi-Volatile Organic Compounds (µg/kg) [6] (cont.)											
Chrysene	35,000	230,000	**1,750**	**113** J	**5,660**	**2,450**	**3,990**	**346**	**3,320**	**1,730**	**5,520**
Dibenzo(a,h)anthracene	1,000	270,000	255 U	221 U	**838**	**304**	**514**	**56.6** J	**583**	**288**	**942**
Dibenzofuran	90,000	250,000	**1,530**	442 U	**1,890**	**2,330**	**1,920**	**228**	**688**	**570**	**2,530**
Fluoranthene	3,200,000	3,200,000	**5,230**	**112** J	**12,200**	**5,950**	**9,820**	**396**	**5,120**	**2,870**	**9,900**
Fluorene	2,800,000	3,800,000	**15,900**	221 U	**2,240**	267 U	**2,900**	**28.9** J	**442**	**232** J	**250**
Hexachlorobutadiene	10,000	42,000	**135** J	442 U	430 U	533 U	477 U	121 U	565 U	506 U	114 U
Indeno(1,2,3-cd)pyrene	3,500	18,000,000	**655**	221 U	**2,850**	**1,100**	**1,670**	**148**	**2,170**	**1,150**	**2,610**
m&p-Cresol [7]	17,000 [8]	49,000 [8]	**2,540**	884 U	860 U	1,070 U	**3,370**	241 U	**283** J	**210** J	**105** J
Naphthalene	13,000	25,000	**33,800** E	**116** J	**8,460**	**14,300**	**46,400**	**443**	**1,860**	**1,610**	**17,600**
o-Cresol	170,000	490,000	**2,380**	884 U	860 U	**1,300**	**1,390**	241 U	1,130 U	1,010 U	**104** J
Phenanthrene	10,000,000	10,000,000	**7,280**	**198** J	**11,200**	**6,360**	**8,010**	**648**	**4,340**	**2,550**	**11,100**
Phenol	200,000	200,000	**4,570**	884 U	860 U	**1,170**	**5,030**	241 U	1,130 U	1,010 U	**260**
Pyrene	2,200,000	2,200,000	**3,550**	**102** J	**9,160**	**4,040**	**8,180**	**281**	**4,120**	**2,310**	**6,100**
Metals (mg/kg)											
Aluminum	190,000 [9]	190,000 [9]	**3,130**	**37,200**	**2,790**	**10,900**	**4,350**	**11,300**	**6,620**	**7,760**	**13,000**
Antimony	27	27	14.3 U	10.5 U	2.2 U	**5.9**	5 U	**9.1** J	**10.9**	5.2 U	21.2 U
Arsenic	12	29	14.3 U	**7.7** J	**6.2**	**28.7**	**14.9**	**33.3**	**18.9**	**28.1**	**30.5**
Barium	8,200	8,200	**271**	**305**	**68.7**	**186**	**57.4**	**248**	**190**	**268**	**218**
Beryllium	320	320	7.2 U	**7.1**	**0.57** J	**1** J	**0.9** J	11.4 U	2.9 U	**0.99** J	10.6 U
Cadmium	38	38	3.6 U	2.6 U	0.56 U	**1.1**	1.2 U	5.7 U	**4.7**	**1.3** J	5.3 U
Calcium	NE	NE	**8,080**	**154,000**	**7,140**	**18,900**	**78,200**	**39,000**	**59,900**	**65,900**	**58,000**
Chromium	37 [10]	190 [10]	**6.7** J	**10.7**	**22.5**	**37.7**	**8**	**28.2**	**28.4**	**39.5**	**47.7**
Cobalt	45	130	7.2 U	**3.4** J	**6.1**	**17.8**	**8.2**	**6.1** J	**11.3**	**12.7**	**9.9** J
Copper	7,200	43,000	**35.7**	**28.8**	**25.1**	**85.7**	**17.3**	**113**	**164**	**238**	**284**
Iron	150,000 [9]	190,000 [9]	**11,400**	**26,700**	**13,800**	**32,200**	**49,900**	**62,700**	**43,700**	**48,100**	**85,400**
Lead	450	450	**376**	**114**	**83**	**330**	**23.1**	**241**	**323**	**337**	**806**
Magnesium	NE	NE	**809**	**17,700**	**866**	**2,980**	**10,900**	**6,770**	**6,840**	**8,020**	**9,340**
Manganese	2,000	2,000	**181**	**3,870**	**685**	**213**	**1,470**	**1,190**	**1,830**	**2,140**	**1,990**
Mercury	10	10	**0.34**	**0.63**	**0.41**	**0.2**	**0.18**	0.052 U	**0.63**	**0.8**	0.058 U
Nickel	650	650	**8.7** J	**8.1** J	**8.3**	**19.1**	**5.3**	**24.1**	**20.2**	**22.1**	**29.7**

TABLE 2

SUMMARY OF DETECTED ANALYTICAL RESULTS - SOIL
INDUSTRIAL NORTH AREA
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Soil MSCs [1]	PADEP Nonresidential Subsurface Soil MSCs [2]	MW-45	SB-216	SB-217	SB-217	SB-218	SB-219	SB-220	SB-220	SB-221
Sample ID			MW-45-10	SB-216-7	SB-217-3	SB-217-6	SB-218-7	SB-219-8.5	SB-220-10	SB-220-10 DUP	SB-221-9
Date			11/21/2024	11/14/2024	11/15/2024	11/15/2024	11/15/2024	11/15/2024	11/15/2024	11/15/2024	11/15/2024
Sample Depth (ft bgs)			10.0	7.0	3.0	6.0	7.0	8.5	10.0	10.0	9.0
Metals (mg/kg) (cont.)											
Potassium	NE	NE	35.8 U	**9,120**	**326**	**1,120**	**384**	**1,410**	**640**	**689**	**1,300**
Selenium	26	26	**629**	26.2 U	5.6 U	**8**	12.4 U	57.1 U	**7.5** J	13 U	52.9 U
Silver	84	84	3.6 U	2.6 U	0.56 U	**0.84**	1.2 U	5.7 U	**0.56** J	**0.52** J	5.3 U
Sodium	NE	NE	**176** J	**2,220**	**128**	**313**	**184**	**433** J	**154**	**181**	**403** J
Thallium	2.2	14	21.5 U	15.7 U	3.4 U	**4.7**	**4.5** J	34.3 U	**3.2** J	**4.6** J	31.7 U
Vanadium	1,100	49,000	**6.9** J	**17.1**	**6.2**	**37**	**9.9**	**17.2**	**20.8**	**19.8**	**12.6**
Zinc	12,000	12,000	**22.1**	**92.7**	**98.4**	**164**	**90.9**	**119**	**347**	**362**	**252**

Notes/Qualifiers:

µg/kg - microgram per kilogram
ft bgs - ft below ground surface
E - result exceeded calibration range
J - result is less than the RL but greater than or equal to the MDL; estimated
MDL - Method Detection Limit
mg/kg - milligram per kilogram
MSC - Medium-Specific Concentration
MW - Monitoring Well
NE - Not Established
PADEP - Pennsylvania Department of Environmental Protection
RL - Reporting Limit
SB - Soil Boring
SVOC - Semi-volatile Organic Compound
TDS - Total Dissolved Solids
U - Not Detected
VOC - Volatile Organic Compound

Bolded - Concentration is detected in the sample
Shaded - Detected concentration exceeds the PADEP Residential Soil MSC
Boxed - Detected concentration exceeds the PADEP Nonresidential Soil MSC

It is noted that several of the non-detect results have reporting limits that exceed the respective screening criteria.

(1) - PADEP Residential MSCs are determined by the lower of the residential Direct Contact and residential Soil-to-Groundwater (Used aquifer; TDS≤2500) values. The Soil-to-Groundwater value is determined by the higher of the 100x Groundwater MSC and Generic Value.

(2) - PADEP Nonresidential MSCs are determined by the lower of the nonresidential Direct Contact and nonresidential Soil-to-Groundwater (Used aquifer; TDS≤2500) values. The Soil-to-Groundwater value is determined by the higher of the 100x Groundwater MSC and Generic Value.

(3) - An additional 42 VOCs were analyzed for, but not detected.
(4) - Not a single chemical but a mixture of the isomers m-xylene and p-xylene.
(5) - Total Xylene used as a surrogate.
(6) - An additional 40 SVOCs were analyzed for, but not detected.
(7) - Not a single chemical but a mixture of the isomers m-cresol and p-cresol.
(8) - p-Cresol used as a surrogate.
(9) - Secondary Maximum Contaminant Level (SMCL)
(10) - Chromium VI used as a surrogate.

TABLE 3

SUMMARY OF DETECTED ANALYTICAL RESULTS - SOIL
INDUSTRIAL SOUTH AREA - EAST REGION
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Soil MSCs [1]	PADEP Nonresidential Subsurface Soil MSCs [2]	SB-222	SB-223	SB-224	SB-224	SB-225	SB-225	SB-226
Sample ID			SB-222-6	SB-223-12	SB-224-4	SB-224-6	SB-225-12	SB-225-12 DUP	SB-226-16
Date			11/18/2024	11/18/2024	11/18/2024	11/18/2024	11/18/2024	11/18/2024	11/18/2024
Sample Depth (ft bgs)			6.0	12.0	4.0	6.0	12.0	12.0	16.0
Volatile Organic Compounds (µg/kg) [3]									
1,2,4-Trimethylbenzene	73,000	300,000	51.4 U	51.8 U	**5,380**	**11,100**	**276** J	624 U	47.1 U
1,3,5-Trimethylbenzene	23,000	93,000	51.4 U	51.8 U	**3,810**	**13,300**	**153** J	624 U	47.1 U
Benzene	500	500	**80.4**	51.8 U	**1,030**	**1,320**	537 U	624 U	47.1 U
Bromomethane	1,000	1,000	**41.7** J	**48.1** J	671 U	560 U	537 U	624 U	**39.5** J
Carbon Disulfide	150,000	620,000	**15.3** J	**19.9** J	**323** J	**528** J	537 U	624 U	**11.6** J
Isopropylbenzene	600,000	2,500,000	51.4 U	51.8 U	671 U	**1,390**	537 U	624 U	47.1 U
Methyl acetate	3,500,000	9,700,000	**224**	**2,390**	**732** J	**2,400**	1,070 U	**315** J	**56.1** J
Methyl cyclohexane	NE	NE	51.4 U	**41.6** J	671 U	**1,470**	**174** J	624 U	47.1 U
m&p-Xylene [4]	1,000,000 [5]	1,000,000 [5]	**55.9** J	104 U	**11,100**	**5,330**	**300** J	1,250 U	94.1 U
o-Xylene	1,000,000 [5]	1,000,000 [5]	51.4 U	51.8 U	**3,820**	**3,930**	537 U	624 U	47.1 U
Toluene	100,000	100,000	**26.2** J	**14.2** J	**2,700**	**2,280**	**142** J	624 U	47.1 U
Total Xylenes	1,000,000	1,000,000	**69.2** J	155 U	**14,900**	**9,260**	**432** J	1,870 U	141 U
Semi-Volatile Organic Compounds (µg/kg) [6]									
2,4-Dimethylphenol	69,000	190,000	736 U	873 U	831 U	862 U	**302** J	**158** J	758 U
2-Methylnaphthalene	25,000	100,000	368 U	**277** J	**822**	**73.8** J	**48,300**	**25,000**	379 U
Acenaphthene	2,600,000	4,700,000	184 U	**288**	208 U	215 U	**11,800**	**5,340**	190 U
Acenaphthylene	2,400,000	6,600,000	184 U	**337**	208 U	215 U	**139,000**	**82,600**	190 U
Acetophenone	350,000	970,000	368 U	437 U	**439**	**154** J	**108** J	448 U	379 U
Anthracene	350,000	350,000	184 U	**758**	208 U	215 U	**15,100**	**132,000**	190 U
Benzo(a)anthracene	6,100	340,000	184 U	**1,710**	208 U	215 U	**195,000**	**138,000**	190 U
Benzo(a)pyrene	4,200	46,000	184 U	**1,480**	208 U	215 U	**177,000**	**123,000**	190 U
Benzo(b)fluoranthene	3,500	170,000	184 U	**1,500**	208 U	215 U	**135,000**	**101,000**	190 U
Benzo(g,h,i)perylene	180,000	180,000	184 U	**935**	208 U	215 U	**89,300**	**64,900**	190 U
Benzo(k)fluoranthene	3,500	610,000	184 U	**1,330**	208 U	215 U	**148,000**	**101,000**	190 U
Biphenyl	370	1,500	368 U	**90.6** J	415 U	431 U	**21,500**	**9,390**	379 U
Carbazole	21,000	89,000	368 U	**431** J	415 U	431 U	**65,500**	**39,300**	379 U
Chrysene	35,000	230,000	184 U	**1,810**	208 U	215 U	**181,000**	**129,000**	190 U

TABLE 3

SUMMARY OF DETECTED ANALYTICAL RESULTS - SOIL
INDUSTRIAL SOUTH AREA - EAST REGION
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Soil MSCs [1]	PADEP Nonresidential Subsurface Soil MSCs [2]	SB-222	SB-223	SB-224	SB-224	SB-225	SB-225	SB-226
Sample ID			SB-222-6	SB-223-12	SB-224-4	SB-224-6	SB-225-12	SB-225-12 DUP	SB-226-16
Date			11/18/2024	11/18/2024	11/18/2024	11/18/2024	11/18/2024	11/18/2024	11/18/2024
Sample Depth (ft bgs)			6.0	12.0	4.0	6.0	12.0	12.0	16.0
Semi-Volatile Organic Compounds (µg/kg) [6] (cont.)									
Dibenzo(a,h)anthracene	1,000	270,000	184 U	**324**	208 U	215 U	**25,400**	**15,200**	190 U
Dibenzofuran	90,000	250,000	368 U	**350** J	415 U	431 U	**107,000**	**58,800**	379 U
Fluoranthene	3,200,000	3,200,000	**89.1** J	**3,960**	208 U	215 U	**688,000**	**468,000**	190 U
Fluorene	2,800,000	3,800,000	184 U	**453**	**5,400**	**753**	**143,000**	**79,800**	190 U
Indeno(1,2,3-cd)pyrene	3,500	18,000,000	184 U	**956**	208 U	215 U	**92,400**	**66,000**	190 U
m&p-Cresol [7]	17,000 [8]	49,000 [8]	736 U	873 U	831 U	862 U	**909**	**509** J	758 U
Naphthalene	13,000	25,000	**91.1** J	**1,850**	**15,500**	**714**	**137,000**	**82,300**	190 U
o-Cresol	170,000	490,000	736 U	873 U	831 U	862 U	**311** J	**167** J	758 U
Phenanthrene	10,000,000	10,000,000	**108** J	**2,760**	208 U	215 U	**689,000**	**438,000**	190 U
Phenol	200,000	200,000	736 U	873 U	831 U	862 U	**1,360**	**785** J	758 U
Pyrene	2,200,000	2,200,000	**67.9** J	**2,410**	208 U	215 U	**369,000**	**272,000**	190 U
Metals (mg/kg) [9]									
Aluminum	190,000 [10]	190,000 [10]	**58,900**	**45,100**	**64,400**	**58,800**	**13,400**	**15,900**	**53,600**
Arsenic	12	29	10.3 U	11.3 U	10.5 U	10.4 U	**35.3**	**29.3**	9.5 U
Barium	8,200	8,200	**558**	**463**	**651**	**640**	**200**	**214**	**563**
Beryllium	320	320	**10.2**	**7.6**	**12.5**	**11.1**	**2.4** J	**2.7** J	**7.5**
Cadmium	38	38	**1.6** J	**1.2** J	**1.8** J	**1.7** J	2.9 U	2.7 U	**1.4** J
Calcium	NE	NE	**188,000**	**191,000**	**225,000**	**213,000**	**45,900**	**54,400**	**176,000**
Chromium	37 [11]	190 [11]	**4.2** J	**10.1**	**9.3**	**7.8**	**34.6**	**29**	**5.1**
Cobalt	45	130	5.1 U	5.6 U	5.3 U	5.2 U	**36.1**	**19.2**	4.8 U
Copper	7,200	43,000	10.3 U	**8.5** J	**5.5** J	**7.3** J	**39.1**	**41.7**	9.5 U
Iron	150,000 [10]	190,000 [10]	**2,960**	**7,670**	**2,190**	**1,590**	**105,000**	**90,900**	**3,360**
Lead	450	450	10.3 U	**14.3**	10.5 U	10.4 U	**134**	**85.1**	9.5 U
Magnesium	NE	NE	**45,000**	**28,600**	**41,400**	**42,000**	**8,130**	**9,640**	**38,500**
Manganese	2,000	2,000	**1,860**	**4,820**	**2,650**	**2,310**	**2,590**	**2,060**	**5,500**
Mercury	10	10	0.049 U	0.057 U	0.051 U	0.053 U	**0.049** J	0.05 U	0.045 U
Nickel	650	650	10.3 U	**4.3** J	10.5 U	10.4 U	**17.8**	**18.7**	**3.4** J

TABLE 3

SUMMARY OF DETECTED ANALYTICAL RESULTS - SOIL
INDUSTRIAL SOUTH AREA - EAST REGION
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Soil MSCs [1]	PADEP Nonresidential Subsurface Soil MSCs [2]	SB-222	SB-223	SB-224	SB-224	SB-225	SB-225	SB-226
Sample ID			SB-222-6	SB-223-12	SB-224-4	SB-224-6	SB-225-12	SB-225-12 DUP	SB-226-16
Date			11/18/2024	11/18/2024	11/18/2024	11/18/2024	11/18/2024	11/18/2024	11/18/2024
Sample Depth (ft bgs)			6.0	12.0	4.0	6.0	12.0	12.0	16.0
Metals (mg/kg) [9] (cont.)									
Potassium	NE	NE	**3,850**	**3,830**	**4,860**	**4,180**	**1,350**	**1,580**	**6,780**
Selenium	26	26	**14.5** J	**9.5** J	**20.5** J	**15.6** J	29.2 U	26.7 U	**11** J
Sodium	NE	NE	**861**	**857**	**1,160**	**1,100**	**355**	**440**	**1,220**
Thallium	2.2	14	15.4 U	16.9 U	15.8 U	15.6 U	**8.2** J	**9.8** J	14.3 U
Vanadium	1,100	49,000	**2.4** J	**8.1**	**8.3**	**5.4**	**32.2**	**24.6**	**7.8**
Zinc	12,000	12,000	10.3 U	**127**	10.5 U	10.4 U	**538**	**394**	9.5 U

Notes/Qualifiers:

µg/kg - microgram per kilogram
ft bgs - ft below ground surface
J - result is less than the RL but greater than or equal to the MDL; estimated
MDL - Method Detection Limit
mg/kg - milligram per kilogram
MSC - Medium-Specific Concentration
NE - Not Established
PADEP - Pennsylvania Department of Environmental Protection
RL - Reporting Limit
SB - Soil Boring
SVOC - Semi-volatile Organic Compound
TDS - Total Dissolved Solids
U - Not Detected
VOC - Volatile Organic Compound

Bolded - Concentration is detected in the sample
Shaded - Detected concentration exceeds the PADEP Residential Soil MSC
Boxed - Detected concentration exceeds the PADEP Nonresidential Soil MSC

It is noted that several of the non-detect results have reporting limits that exceed the respective screening criteria.

[1] - PADEP Residential MSCs are determined by the lower of the residential Direct Contact and residential Soil-to-Groundwater (Used aquifer; TDS≤2500) values. The Soil-to-Groundwater value is determined by the higher of the 100x Groundwater MSC and Generic Value.

[2] - PADEP Nonresidential MSCs are determined by the lower of the nonresidential Direct Contact and nonresidential Soil-to-Groundwater (Used aquifer; TDS≤2500) values. The Soil-to-Groundwater value is determined by the higher of the 100x Groundwater MSC and Generic Value.

[3] - An additional 44 VOCs were analyzed for, but not detected.

[4] - Not a single chemical but a mixture of the isomers m-xylene and p-xylene.

[5] - Total Xylene used as a surrogate.

[6] - An additional 43 SVOCs were analyzed for, but not detected.

[7] - Not a single chemical but a mixture of the isomers m-cresol and p-cresol.

[8] - p-Cresol used as a surrogate.

[9] - Antimony and silver were also analyzed for, but not detected.

[10] - Secondary Maximum Contaminant Level (SMCL)

[11] - Chromium VI used as a surrogate.

Table 4

Groundwater Monitoring Well Survey Data
December 2024
Erie Coke Site

Well / Standpipe	Northing	Easting	Ground Surface Elevation (MSL) [1]	Top of Casing Elevation		Depth to Water (TOC-PVC)	Groundwater Elevation (MSL)	Approximate Well Screen Interval	
				(Steel)	(PVC)			(BGS)	(MSL)
MW-1	729,566.90	1,338,421.29	579.50	582.50	582.09	9.63	572.46	5 - 15	574.5 - 564.5
MW-2	730,434.14	1,337,495.97	581.67	584.82	584.59	11.80	572.79	8 - 18	573.7 - 563.7
MW-3	728,830.75	1,338,682.82	581.15	584.32	584.06	9.23	574.83	5 - 15	576.2 - 566.2
MW-4	728,235.60	1,338,874.27	581.41	584.45	584.26	8.03	576.23	5 - 15	576.4 - 566.4
MW-5S	728,822.68	1,338,882.83	583.11	586.21	586.05	10.78	575.27	5 - 15	578.1 - 568.1
MW-5D	728,827.82	1,338,880.99	583.14	586.19	586.02	10.74	575.28	10 - 20	573.1 - 563.1
MW-6S	728,798.13	1,339,550.54	589.57	592.89	592.54	17.10	575.44	10 - 20	579.6 - 569.6
MW-6D	728,802.44	1,339,548.32	589.59	592.82	592.55	17.12	575.43	15 - 25	574.6 - 564.6
MW-7	728,567.85	1,339,796.16	585.58	588.56	588.33	12.54	575.79	8 - 18	577.6 - 567.6
MW-8S	729,097.94	1,339,460.18	586.91	590.01	589.87	14.91	574.96	8 - 18	578.9 - 568.9
MW-8D	729,097.60	1,339,464.41	586.87	589.90	589.85	16.32	573.53	14 - 24	572.9 - 562.9
MW-9S	728,943.16	1,339,469.71	588.55	591.64	591.32	14.90	576.42	8 - 18	580.6 - 570.6
MW-9D	728,949.59	1,339,465.73	587.99	590.99	590.93	16.14	574.79	15 - 25	573.0 - 563.0
MW-10S	729,058.11	1,339,664.17	587.68	590.77	590.60	15.80	574.80	10 - 20	577.7 - 567.7
MW-10D	729,063.36	1,339,662.90	587.85	590.59	590.24	15.38	574.86	14 - 24	573.9 - 563.9
MW-11S	729,278.97	1,339,481.85	585.54	588.57	588.43	15.28	573.15	8 - 18	577.5 - 567.5
MW-11D	729,278.30	1,339,488.31	585.50	588.56	588.44	15.28	573.16	13 - 23	572.5 - 562.5
MW-12	731,089.58	1,337,036.44	581.70	584.64	584.52	11.88	572.64	9 - 19	572.7 - 562.7
MW-13	729,852.67	1,338,338.62	581.48	584.49	584.40	11.68	572.72	6 - 16	575.48 - 565.48
MW-14	731,205.43	1,337,016.78	579.96	583.17	582.72	10.41	572.31	9 - 19	571.0 - 561.0
MW-15	730,949.94	1,337,155.12	581.02	584.16	583.81	10.65	573.16	6 - 16	575.0 - 565.0

Table 4

Groundwater Monitoring Well Survey Data
December 2024
Erie Coke Site

Well / Standpipe	Northing	Easting	Ground Surface Elevation (MSL) [1]	Top of Casing Elevation		Depth to Water (TOC-PVC)	Groundwater Elevation (MSL)	Approximate Well Screen Interval	
				(Steel)	(PVC)			(BGS)	(MSL)
MW-16	730,505.69	1,337,444.78	582.09	585.20	584.87	11.98	572.89	4 - 14	578.1 - 568.1
MW-17	729,722.61	1,337,548.16	585.70	589.01	588.70	15.54	573.16	8 - 18	577.7 - 567.7
MW-18	728,831.56	1,338,450.69	577.90	580.89	580.49	5.60	574.89	6 - 16	571.9 - 561.9
MW-19S	729,313.21	1,339,400.18	585.09	588.34	587.84	14.79	573.05	8 - 18	577.1 - 567.1
MW-19D	729,314.14	1,339,414.62	585.16	588.49	588.00	14.98	573.02	15 - 25	570.2 - 560.2
MW-20	729,144.70	1,339,335.11	587.97	591.15	590.80	17.05	573.75	9 - 19	579.0 - 569.0
MW-21	729,306.15	1,339,902.04	589.31	592.37	592.05	19.26	572.79	12 - 22	577.3 - 567.3
MW-22S	729,256.18	1,339,743.16	586.42	589.75	589.39	16.22	573.17	8 - 18	578.4 - 568.4
MW-22D	729,261.09	1,339,729.66	586.37	589.61	589.20	16.08	573.12	16 - 26	570.4 - 560.4
MW-23	729,313.14	1,339,604.61	586.19	589.45	589.09	16.06	573.03	10 - 20	576.2 - 566.2
MW-24	728,627.83	1,338,803.72	580.83	583.84	583.74	8.17	575.57	6 - 16	574.8 - 564.8
MW-25	728,424.65	1,338,580.40	579.28	582.29	581.96	6.18	575.78	6 - 16	573.3 - 563.3
MW-26S	729,070.46	1,339,553.82	587.45	590.71	590.37	15.49	574.88	10.6 - 20.6	576.9 - 566.9
MW-26D	729,082.39	1,339,568.07	587.87	590.89	590.58	15.70	574.88	13.5 - 23.5	574.4 - 564.4
MW-27S	729,003.73	1,339,596.23	588.19	591.42	591.27	15.96	575.31	5 - 15	583.2 - 573.2
MW-27D	729,025.32	1,339,577.73	587.78	591.11	590.80	15.65	575.15	12 - 22	575.8 - 565.8
MW-28	730,490.36	1,337,241.85	580.17	583.34	583.00	10.08	572.92	5 - 15	575.2 - 565.2
MW-29	728,810.38	1,339,763.16	588.95	592.28	591.90	16.62	575.28	13 - 23	576.0 - 566.0
MW-30	728,848.03	1,339,907.16	586.99	590.28	589.89	15.45	574.44	9 - 19	578.0 - 568.0
MW-31	728,941.55	1,339,773.88	588.22	591.77	591.36	16.84	574.52	12 - 22	576.2 - 566.2
MW-32	729,006.18	1,340,179.56	588.66	591.96	591.71	18.30	573.41	13 - 23	575.7 - 565.7
MW-33	729,224.86	1,340,091.47	587.17	590.47	590.28	17.58	572.70	10 -20	577.2 - 567.2

Table 4

Groundwater Monitoring Well Survey Data
December 2024
Erie Coke Site

Well / Standpipe	Northing	Easting	Ground Surface Elevation (MSL) [1]	Top of Casing Elevation		Depth to Water (TOC-PVC)	Groundwater Elevation (MSL)	Approximate Well Screen Interval	
				(Steel)	(PVC)			(BGS)	(MSL)
MW-34S	729,093.74	1,339,784.16	587.27	590.45	589.98	16.18	573.80	7 - 17	580.3 - 570.3
MW-34D	729,106.25	1,339,782.60	587.56	590.84	590.40	16.62	573.78	12 -22	575.6 - 565.6
MW-35S	728,928.49	1,339,422.67	589.62	592.61	592.22	16.11	576.11	6.7 - 16.7	582.9 - 572.9
MW-35D	728,936.04	1,339,416.72	589.60	592.54	592.19	17.23	574.96	17 - 27	572.6 - 562.6
MW-36S	728,965.37	1,339,562.38	589.06	592.09	591.80	14.92	576.88	6 - 16	583.1 - 573.1
MW-36D	728,960.92	1,339,573.03	589.47	592.58	592.19	15.98	576.21	14 - 24	575.5 - 565.5
MW-37	730,026.54	1,338,006.94	579.15	582.34	582.10	9.43	572.67	5 - 15	574.2 - 564.2
MW-38D	729,162.79	1,339,580.81	587.43	590.40	590.10	16.46	573.64	13 - 23	574.4 - 564.4
MW-39	731,139.95	1,337,121.94	580.17	580.19	579.86	7.40	572.46	9 - 19	571.2 - 561.2
MW-40	731,030.58	1,337,202.78	580.75	580.73	580.31	7.64	572.67	8 - 18	572.8 - 562.8
MW-41	730,853.38	1,337,305.76	581.48	581.44	581.04	8.09	572.95	6 - 16	575.5 - 565.5
MW-42	730,270.48	1,337,735.46	579.81	579.80	579.41	N/A	N/A	6 - 16	573.8 - 563.8
MW-43	730,593.10	1,337,634.67	582.05	582.02	581.61	9.18	572.43	8 - 18	574.1 - 564.1
MW-44	731,074.59	1,337,294.51	580.99	580.97	580.67	8.03	572.64	5.7 - 15.7	575.3 - 565.3
MW-45	729,696.53	1,338,203.20	580.55	583.66	583.28	10.69	572.59	7 - 17	573.6 - 563.6
SP-1	730,177.76	1,338,103.12	N/A	576.02	N/A	N/A	N/A	N/A	N/A
SP-2	729,498.06	1,339,035.98	N/A	574.21	N/A	N/A	N/A	N/A	N/A
SP-3	729,405.23	1,339,665.03	N/A	577.50	N/A	5.64	571.86	N/A	N/A

Notes:

BGS - Below Ground Surface
MSL - Mean Sea Level
N/A - Not Applicable / Not Available
TOC - Top of Casing

[1] Surface of each well's concrete pad was used for ground surface elevation.

TABLE 5

SUMMARY OF AQUEOUS FIELD PARAMETER DATA
DECEMBER 2024
ERIE COKE SITE

Well	Date Sampled	Temperature (C°)	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)
Monitoring Well							
MW-1	12/11/24	13.4	760	0.06	11.57	2.3	-269.3
MW-2	12/10/24	12.5	1,360	0.32	6.89	0.9	-139.0
MW-3	12/11/24	12.9	1,337	0.31	7.18	9.9	-134.7
MW-4	12/11/24	10.8	2,980	-0.01	6.71	20.0	-143.4
MW-5S	12/11/24	12.6	1,511	0.00	7.54	2.9	-143.7
MW-5D	12/11/24	12.8	1,970	0.02	7.38	4.3	-146.2
MW-6S	12/13/24	15.5	2,401	0.43	6.73	3.1	259.3
MW-6D	12/13/24	15.3	2,281	1.00	6.77	3.8	181.9
MW-7	12/11/24	10.6	1,154	2.27	6.91	5.4	-18.3
MW-8S	12/12/24	12.6	677	0.23	6.77	4.9	368.3
MW-8D	12/12/24	15.3	1,630	0.00	7.34	5.2	-156.5
MW-9S	12/13/24	17.3	1,967	0.02	6.87	6.2	-155.9
MW-9D	12/17/24	N/A	N/A	N/A	N/A	N/A	N/A
MW-10S	12/18/24	N/A	N/A	N/A	N/A	N/A	N/A
MW-10D	12/18/24	15.4	2,611	0.30	7.46	6.2	-364.9
MW-11S	12/12/24	14.4	1,453	0.04	8.16	3.8	-133.8
MW-11D	12/12/24	14.4	2,654	-0.10	8.48	2.9	-247.0
MW-12	12/10/24	11.4	2,326	0.33	7.11	5.6	-185.2
MW-13	12/10/24	13.1	4,508	0.35	2.51	67.0	275.0
MW-14	12/10/24	13.1	1,565	0.01	6.97	9.5	-123.2
MW-15	12/10/24	12.0	1,081	0.28	6.66	7.0	-159.3
MW-16	12/10/24	13.0	1,434	0.33	6.63	2.2	-108.7
MW-17	12/10/24	10.9	N/A	8.37	6.76	8.9	-53.4
MW-18	12/11/24	10.7	1,358	0.31	7.15	9.9	-142.9
MW-19S	12/12/24	14.3	985	0.80	7.01	4.7	269.1
MW-19D	12/12/24	14.3	2,121	0.00	8.33	5.1	-224.6
MW-20	12/11/24	16.2	885	2.47	7.07	4.1	286.7
MW-21	12/11/24	12.5	1,535	0.30	10.68	3.3	-225.9
MW-22S	12/9/24	14.2	2,332	0.00	8.75	116.7	-268.2
MW-22D	12/9/24	13.6	558	8.97	8.40	66.5	-6.0
MW-23	12/11/24	15.9	1,439	1.10	7.00	4.7	265.4
MW-24	12/11/24	13.2	1,759	0.00	6.99	8.6	-92.2
MW-25	12/11/24	11.9	1,493	0.00	6.81	14.7	-106.7
MW-26S	12/18/24	N/A	N/A	N/A	N/A	N/A	N/A
MW-26D	12/18/24	N/A	N/A	N/A	N/A	N/A	N/A
MW-27S	12/16/24	N/A	N/A	N/A	N/A	N/A	N/A
MW-27D	12/17/24	N/A	N/A	N/A	N/A	N/A	N/A

TABLE 5

SUMMARY OF AQUEOUS FIELD PARAMETER DATA
DECEMBER 2024
ERIE COKE SITE

Well	Date Sampled	Temperature (C°)	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)
Monitoring Well							
MW-28	12/10/24	11.8	1,403	0.01	7.26	8.7	-149.0
MW-29	12/12/24	14.2	1,870	0.26	11.27	9.4	-380.6
MW-30	12/13/24	13.4	1,348	5.48	7.27	5.0	239.5
MW-31	12/12/24	14.4	3,559	-0.01	9.06	3.6	-339.0
MW-32	12/12/24	10.3	1,603	0.39	7.65	1.2	-170.8
MW-33	12/12/24	10.7	1,504	3.78	7.69	1.1	232.9
MW-34S	12/18/24	15.8	2,025	N/A	7.33	3.1	-349.7
MW-34D	12/18/24	N/A	N/A	N/A	N/A	N/A	N/A
MW-35S	12/13/24	15.1	2,321	0.80	7.23	1.6	251.1
MW-35D	12/13/24	15.7	1,743	0.66	7.30	5.4	259.7
MW-36S	12/17/24	N/A	N/A	N/A	N/A	N/A	N/A
MW-36D	12/17/24	N/A	N/A	N/A	N/A	N/A	N/A
MW-37	12/10/24	13.9	1,011	0.07	7.23	5.0	-120.4
MW-38D	12/11/24	14.7	1,692	2.84	6.68	4.5	342.4
MW-39	12/9/24	13.7	1,680	-0.01	6.94	20.8	-117.8
MW-40	12/9/24	12.8	2,323	0.00	7.05	2.0	-144.1
MW-41	12/9/24	13.6	1,770	0.34	6.87	9.0	-166.0
MW-42	12/17/24	5.2	434	8.72	7.30	29.0	111.3
MW-43	12/9/24	15.9	1,057	0.03	7.13	4.7	-129.6
MW-44	12/9/24	16.4	1,991	0.00	6.66	25.1	-113.6
MW-45	12/10/24	14.1	1,061	0.00	6.67	7.6	-101.2

Notes:

µs/cm - micro siemens per centimeter
C° - degrees Celsius
mg/L - milligrams per liter
mV - millivolts
N/A - Not Available; Unable to collect due to Non-Aqueous Phase Liquids (NAPL) in well, high contamination, poor recharge, sensor not working, etc.
NTU - Nephelometric Turbidity Units
S.U. - Standard Units

TABLE 6

NON-AQUEOUS PHASE LIQUID (NAPL) FIELD MEASUREMENTS
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE

Well	December 2023		January 2024		April 2024		August 2024		November 2024	
	LNAPL	DNAPL	LNAPL	DNAPL	LNAPL	DNAPL	LNAPL	DNAPL	LNAPL	DNAPL
MW-1	0	0	0	0	0	0	0	0	0	0
MW-2	0	0	**(sheen)**	0	0	0	0	0	0	0
MW-3	0	0	0	0	0	0	0	0	0	0
MW-4	0	0	**(sheen)**	0	0	0	0	0	0	0
MW-5S	0	0	0	0	0	0	0	0	0	0
MW-5D	0	0	0	0	0	0	0	0	0	0
MW-6S	0	0	0	0	0	0	0	0	0	0
MW-6D	0	0	0	0	0	0	0	0	0	0
MW-7	0	0	0	0	0	0	0	0	0	0
MW-8S	0	0	0	0	0	0	0	0	0	0
MW-8D	**(sheen)**	0	**(sheen)**	0	0	0	0	0	0	0
MW-9S	0	**0.6**	0	0	0	0	0	0	0	0
MW-9D	0	**2.8**	0	**2.7**	0	**2.9**	**0.0**	**1.1**	0	**1.8**
MW-10S	0	**1.1**	0	**1.15**	0	**1.5**	**0**	**0.7**	0	**0.79**
MW-10D	0	**0.35**	0	0	0	0	0	0	0	0
MW-11S	0	0	0	0	0	0	0	0	0	0
MW-11D	0	0	0	0	0	0	0	0	0	0
MW-12	0	0	0	0	0	0	0	0	0	0
MW-13	0	**2.2**	0	**0.1**	0	0	0	0	0	0
MW-14	0	0	0	0	0	0	0	0	0	0
MW-15	0	0	0	0	0	0	0	0	0	0
MW-16	0	0	**(sheen)**	0	0	0	0	0	0	0
MW-17	0	0	0	0	0	0	0	0	0	0
MW-18	0	0	0	0	0	0	0	0	0	0
MW-19S	0	0	**(sheen)**	0	0	0	0	0	0	0
MW-19D	0	0	**(sheen)**	0	0	0	0	0	0	0
MW-20	0	0	0	0	0	0	0	0	0	0
MW-21	0	0	0	0	0	0	0	0	0	0
MW-22S	0	0	0	0	0	0	0	0	0	0
MW-22D	0	0	0	0	0	0	0	0	0	0
MW-23	0	0	0	0	0	0	0	0	0	0
MW-24	0	0	0	0	0	0	0	0	0	0
MW-25	0	0	0	0	0	0	0	0	0	0
MW-26S	0	0	0	**0.1**	0	**0.33**	**0**	**1**	0	**1.5**
MW-26D	0	0	**(sheen)**	**0.7**	0	**0.33**	**0**	**0.7**	0	**0.21**
MW-27S	0	0	0	0	0	0	0	0	0	0
MW-27D	0	0	0	**0.2**	0	**1.0**	**0.0**	**0.2**	0	**1.5**
MW-28	0	0	0	0	0	0	0	0	0	0
MW-29	0	0	0	0	0	0	0	0	0	0
MW-30	0	0	0	0	0	0	0	0	0	0
MW-31	0	0	0	0	0	0	0	0	0	0
MW-32	0	0	0	0	0	0	0	0	0	0
MW-33	0	0	0	0	0	0	0	0	0	0
MW-34S	0	0	0	0	0	0	0	0	0	0
MW-34D	0	0	0	**2.15**	0	**1.5**	**0**	**2.3**	0	**2.0**
MW-35S	0	0	0	0	0	0	0	0	0	0
MW-35D	0	0	0	0	0	0	0	0	0	0

TABLE 6

NON-AQUEOUS PHASE LIQUID (NAPL) FIELD MEASUREMENTS
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE

Well	December 2023		January 2024		April 2024		August 2024		November 2024	
	LNAPL	DNAPL	LNAPL	DNAPL	LNAPL	DNAPL	LNAPL	DNAPL	LNAPL	DNAPL
MW-36S	**0.3**	**1.2**	**(sheen)**	0	0	0	0	0	0	0
MW-36D	0	**0.3**	0	**0.3**	0	**0.2**	**0**	**0.1**	0	**0.17**
MW-37	0	0	0	0	0	0	0	0	0	0
MW-38D	0	0	0	0	0	0	0	0	0	0

Groundwater Grab Boring	November 2023	
	LNAPL	DNAPL
SB-151/GWG-137	0	**4.1**
SB-152/GWG-138	0	**2.7**
SB-153/GWG-136	0	**1.2**
SB-175/GWG-142	0	**0.4**
SB-176/GWG-143	**0.1**	**9.5**
SB-177/GWG-146	**(sheen)**	0
SB-178/GWG-145	**(sheen)**	0
SB-179/GWG-147	0	0

Notes:

DNAPL - Dense Non-Aqueous Phase Liquid
LNAPL - Light Non-Aqueous Phase Liquid

Values represent feet of NAPL in boring/well

TABLE 7

SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS - DECEMBER 2024 GROUNDWATER SAMPLING EVENT
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	PADEP Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5D	MW-6S	MW-6D	MW-7	MW-8S	MW-8D	MW-9S	MW-9D	MW-10S	MW-10D	MW-11S	MW-11D
Sample ID			MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5D	MW-6S	MW-6D	MW-7	MW-8S	MW-8D	MW-9S	MW-9D	MW-10S	MW-10D	MW-11S	MW-11D
Date			12/11/2024	12/10/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/11/2024	12/12/2024	12/12/2024	12/13/2024	12/17/2024	12/18/2024	12/18/2024	12/12/2024	12/12/2024
Volatile Organic Compounds (µg/L) [1]																			
1,2,4-Trimethylbenzene	130	530	1 U	**13.2** J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	**87.7**	**171** J	**37.8**	**155**	**170**	**2.1**	**78.6**
1,3,5-Trimethylbenzene	130	530	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	**7** J	500 U	**11.8** J	**62.7**	**76.7**	1 U	**15.7** J
Acetone	31,000	88,000	10 U	500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	200 U	5,000 U	200 U	500 U	500 U	10 U	500 U
Benzene	5	5	**0.54** J	**4,050**	1 U	1 U	**0.41** J	1 U	1 U	1 U	1 U	5 U	**750**	**308** J	**491**	**4,640**	**10,400**	**186**	**2,150**
Bromomethane	10	10	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	20 U	500 U	**27.8**	50 U	50 U	1 U	50 U
Carbon Disulfide	1,500	6,200	**0.4** J	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	20 U	500 U	**5.8** J	50 U	50 U	1 U	50 U
Chloroform	80	80	**8**	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	20 U	500 U	20 U	50 U	50 U	1 U	50 U
Chloromethane	30	30	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	20 U	500 U	20 U	50 U	50 U	1 U	50 U
Ethylbenzene	700	700	1 U	**27.6** J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	**94.7**	500 U	**16.2** J	**87.4**	**107**	**2.5**	**25.5** J
Isopropylbenzene	840	3,500	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	**6.9** J	500 U	20 U	50 U	50 U	**0.48** J	50 U
m&p-Xylene [2]	10,000 [3]	10,000 [3]	2 U	100 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	10 U	**20.1** J	1,000 U	**60.1**	**406**	**604**	**3.2**	**49.6** J
o-Xylene	10,000 [3]	10,000 [3]	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	**14.4** J	500 U	**35.9**	**205**	**283**	**3.3**	**61.7**
Styrene	100	100	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	20 U	500 U	**11** J	**22** J	**25.9** J	**0.24** J	50 U
Toluene	1,000	1,000	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	**37.6**	500 U	**60.2**	**711**	**1,500**	**0.6** J	**12.9** J
Total Xylenes	10,000	10,000	3 U	150 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	15 U	**34.5** J	1,500 U	**96**	**612**	**887**	**6.5**	**111** J
Semi-Volatile Organic Compounds (µg/L) [4]																			
2,4-Dimethylphenol	690	1,900	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**60.3**	**35**	**22.1**	**267**	**2,530**	3 U	3 U
2-Methylnaphthalene	6.3	26	1.5 U	**1.2** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**6**	**99.3**	**49.5**	**88.9**	**349**	**1.1** J	**76**
4-Nitroaniline	33	140	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**4.7**	3 U	7.5 U	3 U	3 U
4-Nitrophenol	60	60	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	3 U	3 U
Acenaphthene	2,100	3,800	1.5 U	**214**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**7.4**	1.5 U	**18**	**4**	**10.3**	**1.4** J	**8.5**
Acenaphthylene	2,100	5,800	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.27** J	1.5 U	**0.41** J	**5.7**	**3.8**	**54.3**	**3.7**	**26.2**	**1.5** J	**36.8**
Acetophenone	3,500	9,700	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**7.7**	3 U	**9.5**	7.5 U	3 U	3 U
Anthracene	66	66	1.5 U	**14.3**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.33** J	1.5 U	**0.76** J	**1.1** J	**16.1**	**9.7**	**4.3**	**13.5**	1.5 U	**1.2** J
Benzo(a)anthracene	0.3	3.9	**0.53** J	**0.54** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**1.4** J	**2.3**	1.5 U	3.8 U	1.5 U	1.5 U
Benzo(a)pyrene	0.2	0.2	**0.55** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.56** J	**0.99** J	1.5 U	3.8 U	1.5 U	1.5 U
Benzo(b)fluoranthene	0.18	1.2	**0.69** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.73** J	**1.1** J	1.5 U	3.8 U	1.5 U	1.5 U
Benzo(g,h,i)perylene	0.26	0.26	**0.58** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.72** J	1.5 U	3.8 U	1.5 U	1.5 U
Benzo(k)fluoranthene	0.18	0.55	**0.65** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.72** J	1.5 U	3.8 U	1.5 U	1.5 U
Biphenyl	0.84	3.5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**3** J	**2.4** J	**13.2**	**13.8**	**39.6**	**0.98** J	**12.8**
bis(2-Chloroethoxy)methane	100	290	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**0.32** J	3 U	3 U	7.5 U	3 U	3 U
bis(2-Ethylhexyl)phthalate	6	6	**0.72** J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**0.63** J	3 U	7.5 U	3 U	3 U
Butylbenzylphthalate	340	1,400	**0.5** J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**0.55** J	3 U	7.5 U	3 U	3 U
Caprolactam	NE	NE	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	3 U	3 U
Carbazole	33	140	3 U	**183**	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**104**	**353**	**154**	**131** J	**360**	**6.7**	**121**
Chrysene	1.8	1.9	**0.57** J	**0.29** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.94** J	**2.1**	1.5 U	3.8 U	1.5 U	1.5 U
Dibenzo(a,h)anthracene	0.052	0.6	**0.65** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.59** J	1.5 U	3.8 U	1.5 U	1.5 U
Dibenzofuran	35	97	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**12**	**6.6**	**77.3**	**30.7**	**82.2**	**1.9** J	**25.5**
Diethylphthalate	28,000	78,000	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	3 U	3 U
Di-n-Butylphthalate	3,500	9,700	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**0.45** J	3 U	7.5 U	3 U	3 U
Di-n-Octylphthalate	350	970	**0.65** J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**1.6** J	3 U	7.5 U	3 U	3 U
Fluoranthene	260	260	1.5 U	**13.7**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**1.6**	**17.3**	**21.3**	**3.9**	**11.1**	1.5 U	**0.49** J
Fluorene	1,400	1,900	1.5 U	**144**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**10.2**	**6.8**	**86.9**	**27.4**	**70.2**	**0.86** J	**25.7**
Indeno(1,2,3-cd)pyrene	0.18	2.3	**0.61** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.72** J	1.5 U	3.8 U	1.5 U	1.5 U
m&p-Cresol [5]	170 [6]	490 [6]	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**9.2**	**30.1**	**92.2**	**2,060**	3 U	3 U
Naphthalene	100	100	1.5 U	**113**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**1** J	1.5 U	**1** J	**264**	**3,620**	**1,040**	**3,490**	**11,900**	**106**	**2,910**
Nitrobenzene	1.2	6.3	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**115**	7.5 U	3 U	3 U

TABLE 7

SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS - DECEMBER 2024 GROUNDWATER SAMPLING EVENT
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	PADEP Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5D	MW-6S	MW-6D	MW-7	MW-8S	MW-8D	MW-9S	MW-9D	MW-10S	MW-10D	MW-11S	MW-11D
Sample ID			MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5D	MW-6S	MW-6D	MW-7	MW-8S	MW-8D	MW-9S	MW-9D	MW-10S	MW-10D	MW-11S	MW-11D
Date			12/11/2024	12/10/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/11/2024	12/12/2024	12/12/2024	12/13/2024	12/17/2024	12/18/2024	12/18/2024	12/12/2024	12/12/2024
Semi-Volatile Organic Compounds (µg/L) [4] (cont.)																			
o-Cresol	1,700	4,900	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**17.8**	**26.1**	**268**	**3,640**	3 U	3 U
Phenanthrene	1,100	1,100	1.5 U	**114**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**4.5**	**109**	**67.6**	**30**	**71.4**	**0.35** J	**10.2**
Phenol	2,000	2,000	8 U	**9.1**	8 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U	**2.9** J	**7.7** J	**12.3**	**38.5**	**351**	**2.2** J	**2.1** J
Pyrene	130	130	**0.25** J	**9.4**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.71** J	**9.8**	**12.8**	**2.2**	**7**	1.5 U	1.5 U
Total Metals (mg/L) [7]																			
Aluminum, Total	0.2 [8]	0.2 [8]	**0.76**	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.2 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Antimony, Total	0.006	0.006	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.04 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	**0.0073** J	**0.0086** J
Arsenic, Total	0.01	0.01	**0.0063** J	0.009 U	**0.0064** J	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	**0.011**	0.016 U	**0.014**	0.009 U	0.009 U	**0.0082** J	**0.0043** J	0.009 U	0.009 U
Barium, Total	2	2	**0.05**	**0.12**	**0.1**	**0.62**	**0.039**	**0.049**	**0.01** J	**0.013**	**0.051**	**0.017** J	**0.051**	**0.023**	**0.025**	**0.022**	**0.025**	**0.079**	**0.049**
Beryllium, Total	0.004	0.004	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0079 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U
Cadmium, Total	0.005	0.005	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	**0.00078** J	0.0022 U	0.004 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U
Calcium, Total	NE	NE	**77.9**	**185**	**213**	**294**	**260**	**351**	**497**	**465**	**211**	**275**	**194**	**453**	**283**	**220**	**168**	**122**	**99.6**
Chromium, Total	0.1	0.1	0.0056 U	0.0056 U	**0.0053** J	**0.0027** J	0.0056 U	0.0056 U	**0.0039** J	**0.0063**	0.0056 U	0.01 U	0.0056 U	**0.0022** J	**0.0023** J	**0.0021** J	**0.0029** J	0.0056 U	**0.0021** J
Cobalt, Total	0.01	0.029	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	**0.0036** J	0.01 U	0.0056 U	0.0056 U	**0.0037** J	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Copper, Total	1	1	0.011 U	0.011 U	0.011 U	**0.0098** J	**0.004** J	**0.0053** J	**0.018**	**0.027**	0.011 U	0.02 U	0.011 U	**0.0082** J	**0.0081** J	**0.0053** J	0.011 U	**0.0037** J	**0.0052** J
Iron, Total	0.3 [8]	0.3 [8]	0.067 U	**0.84**	**9.9**	**24.9**	**4.7**	**13.4**	**0.19**	**0.099**	**3.2**	**10.2**	**1.4**	**0.78**	**0.72**	**0.34**	**0.47**	**0.26**	**0.35**
Lead, Total	0.005	0.005	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.012 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Magnesium, Total	NE	NE	0.11 U	**103**	**34.1**	**58.6**	**30.4**	**45.7**	**58.9**	**57.6**	**36.5**	**31**	**81.5**	**63.7**	**104**	**58.1**	**73.7**	**55**	**80.4**
Manganese, Total	0.3	0.3	0.0056 U	**1.6**	**0.29**	**1.8**	**0.77**	**0.83**	**0.13**	**0.053**	**0.34**	**0.021**	**0.26**	**0.99**	**0.15**	**0.17**	**0.069**	**0.11**	**0.077**
Nickel, Total	0.1	0.1	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.04 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Potassium, Total	NE	NE	**4.8**	**20.1**	**14.4**	**15.8**	**33**	**16.4**	**1.8**	**3.2**	**8.7**	**6.6**	**5.6**	**2.5**	**6.8**	**2.3**	**3**	**9.2**	**10.5**
Selenium, Total	0.05	0.05	**0.0087** J	0.022 U	0.022 U	0.022 U	**0.013** J	**0.01** J	**0.28**	**0.27**	**0.0093** J	**0.14**	0.022 U	0.022 U	**223**	**0.02** J	0.022 U	0.022 U	**0.0097** J
Sodium, Total	NE	NE	**16.2**	**16.1**	**66**	**155**	**64.1**	**78.5**	**105**	**98.6**	**40.2**	**8**	**54.2**	**21.8**	**223**	**182**	**236**	**79.5**	**139**
Vanadium, Total	0.17	0.49	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.01 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Zinc, Total	2	2	0.022 U	0.022 U	0.022 U	0.022 U	**0.07**	**0.13**	**0.053**	**0.13**	0.022 U	0.04 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Dissolved Metals (mg/L) [9]																			
Aluminum, Dissolved	0.2 [8]	0.2 [8]	**0.86**	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.2 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Antimony, Dissolved	0.006	0.006	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.04 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Arsenic, Dissolved	0.01	0.01	**0.0038** J	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	**0.0066** J	0.016 U	**0.013**	0.009 U	0.009 U	**0.008** J	**0.01**	**0.0031** J	0.009 U
Barium, Dissolved	2	2	**0.054**	**0.11**	**0.1**	**0.45**	**0.037**	**0.048**	**0.011**	**0.013**	**0.05**	**0.018** J	**0.056**	**0.024**	**0.026**	**0.022**	**0.025**	**0.079**	**0.044**
Beryllium, Dissolved	0.004	0.004	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0079 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U
Calcium, Dissolved	NE	NE	**83.8**	**181**	**206**	**290**	**257**	**341**	**481**	**455**	**206**	**267**	**193**	**450**	**292**	**226**	**166**	**122**	**95.9**
Chromium, Dissolved	0.1	0.1	0.0056 U	0.0056 U	**0.0022** J	**0.0058**	0.0056 U	**0.0024** J	**0.0048** J	**0.0026** J	0.0056 U	**0.005** J	**0.0022** J	0.0056 U	**0.0021** J	0.0056 U	0.0056 U	**0.0023** J	**0.0026** J
Cobalt, Dissolved	0.01	0.029	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.01 U	0.0056 U	0.0056 U	**0.0027** J	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Copper, Dissolved	1	1	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	**0.0039** J	**0.017**	**0.023**	0.011 U	0.02 U	0.011 U	**0.0046** J	**0.0048** J	0.011 U	0.011 U	0.011 U	0.011 U
Iron, Dissolved	0.3 [8]	0.3 [8]	0.067 U	**0.79**	**9.5**	**19.4**	**4.3**	**13.1**	**0.19**	**0.064** J	**2.8**	**9.5**	**0.62**	**0.66**	**0.59**	**0.3**	**0.29**	**0.24**	**0.35**
Lead, Dissolved	0.005	0.005	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.012 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Magnesium, Dissolved	NE	NE	0.11 U	**99.9**	**33.4**	**56.9**	**29.5**	**45.7**	**57.9**	**54.9**	**36.2**	**30.7**	**82**	**61.9**	**106**	**59.1**	**73.5**	**54.8**	**88.6**
Manganese, Dissolved	0.3	0.3	0.0056 U	**1.5**	**0.29**	**1.7**	**0.79**	**0.81**	**0.12**	**0.044**	**0.34**	**0.015**	**0.26**	**1**	**0.16**	**0.17**	**0.068**	**0.11**	**0.074**
Nickel, Dissolved	0.1	0.1	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.04 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Potassium, Dissolved	NE	NE	**4.9**	**19.7**	**14.2**	**15.6**	**29.6**	**16.1**	**1.7**	**3.2**	**8.7**	**6.5**	**6**	**2.6**	**6.3**	**2.3**	**3.2**	**9.4**	**10.6**
Selenium, Dissolved	0.05	0.05	0.022 U	0.022 U	0.022 U	**0.0091** J	**0.0079** J	0.022 U	**0.32**	**0.27**	**0.021** J	**0.16**	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	**0.01** J
Sodium, Dissolved	NE	NE	**15.9**	**15.9**	**64.6**	**154**	**61.9**	**78.1**	**105**	**99**	**39.9**	**8.2**	**70**	**21.8**	**221**	**183**	**239**	**80.6**	**154**
Thallium, Dissolved	0.002	0.002	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.04 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Vanadium, Dissolved	0.17	0.49	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.01 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Zinc, Dissolved	2	2	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	**0.05**	**0.12**	0.022 U	0.04 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U

TABLE 7

SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS - DECEMBER 2024 GROUNDWATER SAMPLING EVENT
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	PADEP Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5D	MW-6S	MW-6D	MW-7	MW-8S	MW-8D	MW-9S	MW-9D	MW-10S	MW-10D	MW-11S	MW-11D
Sample ID			MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5D	MW-6S	MW-6D	MW-7	MW-8S	MW-8D	MW-9S	MW-9D	MW-10S	MW-10D	MW-11S	MW-11D
Date			12/11/2024	12/10/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/13/2024	12/13/2024	12/11/2024	12/12/2024	12/12/2024	12/13/2024	12/17/2024	12/18/2024	12/18/2024	12/12/2024	12/12/2024
General Chemistry (mg/L)																			
Acidity, Total	NE	NE	5 U	**63**	**14**	**81**	**10**	**20**	**35**	**49**	**22**	**29**	**24**	**47**	**45**	**22**	**11**	5 U	5 U
Alkalinity, Total	NE	NE	**132**	**872**	**268**	**721**	**206**	**185**	**298**	**312**	**321**	**326**	**489**	**528**	**409**	**468**	**403**	**106**	**127**
Chloride	250 [8]	250 [8]	**22.9**	**11**	**89.6**	**336**	**60.9**	**125**	**53.3**	**52.2**	**72.1**	**3.1** J	**96.2**	**7.5**	**400**	**96.5**	**180**	**151**	**313**
Nitrate-N	10	10	1 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	**28.4**	**28.8**	2.5 U	**18.5**	2.5 U	**1.2** J	2.5 U	2.5 U	2.5 U	**0.98** J	2.5 U
pH (SU)	6.5 - 8.5	NE	**9.97**	**8.26**	**8.35**	**8.27**	**8.32**	**8.27**	**8.32**	**8.36**	**8.32**	**8.3**	**8.35**	**8.17**	**8.18**	**8.37**	**8.37**	**8.18**	**8.13**
Specific Conductance (µmhos/cm)	NE	NE	**751**	**1,490**	**1,400**	**204**	**1,590**	**2,040**	**2,800**	**2,170**	**1,280**	**1,300**	**1,950**	**2,150**	**3,490**	**2,530**	**2,650**	**1,550**	**2,270**
Sulfate	250 [8]	250 [8]	**59.3**	**17**	**418**	**151**	**640**	**882**	**1,160**	**1,050**	**317**	**316**	**527**	**894**	**971**	**746**	**836**	**476**	**789**
Total Dissolved Solids	NE	NE	**334**	**836**	**1,020**	**1,440**	**1,210**	**1,640**	**2,210**	**2,050**	**928**	**992**	**1,180**	**1,810**	**2,070**	**1,240**	**1,530**	**950**	**1,290**
Turbidity (NTU)	NE	NE	**1**	**11**	**100**	**160**	**55**	**130**	**1.4**	**1.6**	**35**	**2**	**40**	**9.5**	**28**	**290**	**380**	**1.5**	**3.3**

TABLE 7

SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS - DECEMBER 2024 GROUNDWATER SAMPLING EVENT
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	PADEP Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	MW-11D	MW-12	MW-13	MW-14	MW-15	MW-15	MW-16	MW-17	MW-18	MW-19S	MW-19D	MW-20	MW-21	MW-22S	MW-22D	MW-23
Sample ID			MW-11D DUP	MW-12	MW-13	MW-14	MW-15	MW-15 DUP	MW-16	MW-17	MW-18	MW-19S	MW-19D	MW-20	MW-21	MW-22S	MW-22D	MW-23
Date			12/12/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/11/2024	12/12/2024	12/12/2024	12/11/2024	12/11/2024	12/9/2024	12/9/2024	12/11/2024
Volatile Organic Compounds (µg/L) [1]																		
1,2,4-Trimethylbenzene	130	530	**74.7**	1,000 U	200 U	1 U	**61.3**	**59.3**	**43.4** J	1 U	1 U	1 U	**0.6** J	1 U	5 U	**7** J	1 U	5 U
1,3,5-Trimethylbenzene	130	530	**15.1** J	1,000 U	**80.3** J	1 U	**47** J	**47.6** J	**26.8** J	1 U	1 U	1 U	1 U	1 U	5 U	**2.9** J	1 U	5 U
Acetone	31,000	88,000	500 U	10,000 U	2,000 U	10 U	500 U	500 U	500 U	10 U	10 U	10 U	10 U	10 U	50 U	100 U	10 U	50 U
Benzene	5	5	**2,090**	**4,890**	**629,000**	1 U	**23,200**	**23,100**	**13,100**	**0.73** J	1 U	**0.42** J	**113**	1 U	**13.7**	**885**	**0.38** J	**21.6**
Bromomethane	10	10	50 U	1,000 U	200 U	1 U	50 U	50 U	50 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	5 U
Carbon Disulfide	1,500	6,200	50 U	1,000 U	**400**	1 U	50 U	50 U	50 U	1 U	1 U	1 U	1 U	1 U	5 U	**2.8** J	1 U	5 U
Chloroform	80	80	50 U	1,000 U	200 U	1 U	50 U	50 U	50 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	5 U
Chloromethane	30	30	50 U	1,000 U	200 U	1 U	50 U	50 U	50 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	5 U
Ethylbenzene	700	700	**25.7** J	1,000 U	200 U	1 U	**37.8** J	**33.9** J	**34.5** J	1 U	1 U	1 U	**2.9**	1 U	5 U	**10.2**	1 U	5 U
Isopropylbenzene	840	3,500	50 U	1,000 U	200 U	1 U	50 U	50 U	50 U	1 U	1 U	1 U	**0.62** J	1 U	5 U	10 U	1 U	5 U
m&p-Xylene [2]	10,000 [3]	10,000 [3]	**45.6** J	2,000 U	**2,790**	2 U	**568**	**530**	**344**	2 U	2 U	2 U	**0.83** J	2 U	10 U	**12.4** J	2 U	10 U
o-Xylene	10,000 [3]	10,000 [3]	**59.4**	1,000 U	**679**	1 U	**221**	**212**	**141**	1 U	1 U	1 U	**0.61** J	1 U	5 U	**19.4**	1 U	5 U
Styrene	100	100	50 U	1,000 U	200 U	1 U	**55.4**	**53.4**	50 U	1 U	1 U	1 U	1 U	1 U	5 U	**5.8** J	1 U	5 U
Toluene	1,000	1,000	**12.7** J	1,000 U	**72,900**	1 U	**2,480**	**2,300**	**217**	1 U	1 U	1 U	1 U	1 U	**1.4** J	**5.8** J	1 U	5 U
Total Xylenes	10,000	10,000	**105** J	3,000 U	**3,470**	3 U	**789**	**743**	**485**	3 U	3 U	3 U	**1.4** J	3 U	15 U	**31.8**	3 U	15 U
Semi-Volatile Organic Compounds (µg/L) [4]																		
2,4-Dimethylphenol	690	1,900	**99.4**	**19.4**	**60.3**	3 U	**708**	**772**	**118**	3 U	3 U	3 U	3 U	3 U	**1.9** J	**33**	3 U	3 U
2-Methylnaphthalene	6.3	26	**63.6**	**6.7**	**2.1**	1.5 U	**178**	**185**	**90.8**	**0.51** J	1.5 U	1.5 U	**1.2** J	1.5 U	**2.1**	**1.5**	1.5 U	1.5 U
4-Nitroaniline	33	140	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
4-Nitrophenol	60	60	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Acenaphthene	2,100	3,800	**7.2**	**3.5**	1.5 U	1.5 U	**16.3**	**16.4**	**200**	**0.42** J	1.5 U	1.5 U	**4.2**	1.5 U	**0.51** J	**1** J	1.5 U	1.5 U
Acenaphthylene	2,100	5,800	**31.1**	**8.5**	1.5 U	1.5 U	**274**	**249**	**7.4**	**0.83** J	1.5 U	1.5 U	**2.5**	1.5 U	**0.75** J	**1.9**	1.5 U	1.5 U
Acetophenone	3,500	9,700	3 U	**3.4**	**5,990**	**1.7** J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Anthracene	66	66	**1** J	**0.28** J	1.5 U	1.5 U	**15.8**	**13.8**	**8.3**	1.5 U	1.5 U	1.5 U	**0.75** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzo(a)anthracene	0.3	3.9	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.74** J	**0.75** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzo(a)pyrene	0.2	0.2	1.5 U	1.5 U	1.5 U	1.5 U	**0.32** J	1.5 U	**0.27** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzo(b)fluoranthene	0.18	1.2	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzo(g,h,i)perylene	0.26	0.26	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzo(k)fluoranthene	0.18	0.55	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Biphenyl	0.84	3.5	**11.1**	**1.7** J	3 U	3 U	**30.6**	**30.1**	**23.2**	3 U	3 U	3 U	**1.5** J	3 U	**0.45** J	**0.9** J	3 U	3 U
bis(2-Chloroethoxy)methane	100	290	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
bis(2-Ethylhexyl)phthalate	6	6	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Butylbenzylphthalate	340	1,400	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Caprolactam	NE	NE	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Carbazole	33	140	**105**	**3.4**	**0.62** J	3 U	**213**	**218**	**136**	**0.82** J	3 U	3 U	**13.1**	3 U	**2.6** J	**10.2**	3 U	3 U
Chrysene	1.8	1.9	1.5 U	1.5 U	1.5 U	1.5 U	**0.51** J	**0.48** J	**0.35** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dibenzo(a,h)anthracene	0.052	0.6	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dibenzofuran	35	97	**21.8**	**4.6**	3 U	3 U	**74.6**	**69.6**	**84.1**	3 U	3 U	3 U	**4.8**	3 U	**0.39** J	**1.4** J	3 U	3 U
Diethylphthalate	28,000	78,000	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Di-n-Butylphthalate	3,500	9,700	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**0.92** J	3 U
Di-n-Octylphthalate	350	970	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Fluoranthene	260	260	**0.4** J	**1.8**	1.5 U	1.5 U	**12.6**	**10.7**	**9.1**	**0.38** J	1.5 U	1.5 U	**0.57** J	1.5 U	1.5 U	1.5 U	**0.41** J	1.5 U
Fluorene	1,400	1,900	**21.4**	**2.9**	**0.67** J	1.5 U	**89.7**	**77.8**	**92.2**	**0.86** J	1.5 U	1.5 U	**6**	1.5 U	**0.37** J	**0.87** J	1.5 U	1.5 U
Indeno(1,2,3-cd)pyrene	0.18	2.3	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
m&p-Cresol [5]	170 [6]	490 [6]	3 U	**14.3**	**440**	3 U	**2,040**	**2,070**	**120**	3 U	3 U	3 U	3 U	3 U	**11.3**	3 U	3 U	3 U
Naphthalene	100	100	**2,250**	**439**	**57.1**	**2.2**	**4,430**	**5,080**	**3,620** E	**5.8**	1.5 U	1.5 U	**62.3**	1.5 U	**46.2**	**411**	**2.2**	1.5 U
Nitrobenzene	1.2	6.3	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U

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ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	PADEP Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	MW-11D	MW-12	MW-13	MW-14	MW-15	MW-15	MW-16	MW-17	MW-18	MW-19S	MW-19D	MW-20	MW-21	MW-22S	MW-22D	MW-23
Sample ID			MW-11D DUP	MW-12	MW-13	MW-14	MW-15	MW-15 DUP	MW-16	MW-17	MW-18	MW-19S	MW-19D	MW-20	MW-21	MW-22S	MW-22D	MW-23
Date			12/12/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/11/2024	12/12/2024	12/12/2024	12/11/2024	12/11/2024	12/9/2024	12/9/2024	12/11/2024
Semi-Volatile Organic Compounds (µg/L) [4] (cont.)																		
o-Cresol	1,700	4,900	3 U	**23**	**77.4**	3 U	**1,140**	**1,240**	**146**	3 U	3 U	3 U	3 U	3 U	**6.6**	**11.5**	3 U	3 U
Phenanthrene	1,100	1,100	**8.6**	**3.5**	**0.59** J	**0.29** J	**83.2**	**79.6**	**65.6**	**0.51** J	1.5 U	1.5 U	**5.5**	1.5 U	1.5 U	**0.67** J	**0.54** J	1.5 U
Phenol	2,000	2,000	**1.3** J	**26.7**	**589** J	8 U	**1,760**	**1,720**	**201**	8 U	8 U	8 U	8 U	8 U	**16.9**	**8**	8 U	8 U
Pyrene	130	130	1.5 U	**0.98** J	1.5 U	1.5 U	**9**	**7.6**	**5.8**	**0.25** J	1.5 U	1.5 U	**0.28** J	1.5 U	1.5 U	1.5 U	**0.28** J	1.5 U
Total Metals (mg/L) [7]																		
Aluminum, Total	0.2 [8]	0.2 [8]	0.11 U	0.11 U	**77.6**	**0.053** J	0.11 U	0.11 U	0.11 U	0.11 U	**0.078** J	0.11 U	0.11 U	0.11 U	0.11 U	**0.038** J	**0.31**	0.11 U
Antimony, Total	0.006	0.006	0.022 U	0.022 U	0.079 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	**0.0098** J	0.022 U	0.022 U	0.022 U	**0.0076** J	**0.0079** J	0.022 U
Arsenic, Total	0.01	0.01	0.009 U	**0.037**	**0.019** J	**0.018**	0.009 U	0.009 U	0.009 U	**0.1**	**0.029**	0.009 U	0.009 U	0.009 U	0.009 U	**0.01**	0.009 U	0.009 U
Barium, Total	2	2	**0.044**	**0.065**	**0.066**	**0.14**	**0.087**	**0.086**	**0.093**	**0.12**	**0.27**	**0.065**	**0.07**	**0.038**	**0.041**	**0.025**	**0.023**	**0.064**
Beryllium, Total	0.004	0.004	0.0044 U	0.0044 U	**0.0064** J	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U
Cadmium, Total	0.005	0.005	0.0022 U	0.0022 U	**0.006** J	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U
Calcium, Total	NE	NE	**95.8**	**297**	**524**	**235**	**79.9**	**79.3**	**283**	**358**	**226**	**136**	**174**	**121**	**229**	**106**	**40.3**	**197**
Chromium, Total	0.1	0.1	**0.0021** J	**0.003** J	**0.16**	**0.0026** J	0.0056 U	0.0056 U	**0.0022** J	**0.0032** J	**0.0028** J	**0.0037** J	**0.0023** J	**0.0021** J	0.0056 U	**0.0021** J	**0.0032** J	**0.0024** J
Cobalt, Total	0.01	0.029	0.0056 U	0.0056 U	**0.059**	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Copper, Total	1	1	**0.0053** J	**0.0063** J	**0.016** J	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	**0.0061** J	0.011 U	**0.004** J	0.011 U	0.011 U	**0.006** J
Iron, Total	0.3 [8]	0.3 [8]	**0.36**	**2.4**	**229**	**10.6**	**6.8**	**6.8**	**17.1**	**21.3**	**17.2**	**0.26**	**0.31**	**0.8**	**0.13**	**0.24**	**0.49**	**0.22**
Lead, Total	0.005	0.005	0.0067 U	0.0067 U	**0.87**	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	**0.0057** J	0.0067 U
Magnesium, Total	NE	NE	**86.7**	**128**	**47.3**	**46.5**	**67.8**	**67.4**	**52.9**	**53.7**	**36.6**	**35.4**	**83.1**	**40.3**	**7.7**	**32.3**	**4.5**	**52.2**
Manganese, Total	0.3	0.3	**0.075**	**1.3**	**10.3**	**0.94**	**0.91**	**0.9**	**1.7**	**1**	**1.4**	**0.022**	**0.1**	**0.082**	0.0056 U	**0.043**	**0.03**	**0.036**
Nickel, Total	0.1	0.1	0.022 U	0.022 U	**0.083**	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Potassium, Total	NE	NE	**10.6**	**17.1**	**3.8**	**8.2**	**39.4**	**39.4**	**14.1**	**14.6**	**10**	**5.5**	**12**	**2.1**	**8.9**	**9.7**	**6**	**7**
Selenium, Total	0.05	0.05	0.022 U	0.022 U	0.079 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	**0.032**	**0.0086** J	0.022 U	**0.018** J	**0.011** J	**0.0077** J	**0.13**
Sodium, Total	NE	NE	**151**	**135**	**106**	**71.1**	**30**	**29.9**	**13.1**	**28.1**	**58.7**	**43.6**	**123**	**43.9**	**138**	**182**	**75.4**	**82.2**
Vanadium, Total	0.17	0.49	0.0056 U	0.0056 U	**0.057**	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Zinc, Total	2	2	0.022 U	0.022 U	**0.77**	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Dissolved Metals (mg/L) [9]																		
Aluminum, Dissolved	0.2 [8]	0.2 [8]	0.11 U	0.11 U	**75.5**	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Antimony, Dissolved	0.006	0.006	0.022 U	0.022 U	0.11 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	**0.014** J	
Arsenic, Dissolved	0.01	0.01	0.009 U	**0.041**	0.045 U	**0.019**	0.009 U	0.009 U	0.009 U	**0.09**	**0.025**	0.009 U	0.009 U	0.009 U	0.009 U	**0.0072** J	**0.0034** J	0.009 U
Barium, Dissolved	2	2	**0.044**	**0.064**	0.056 U	**0.14**	**0.083**	**0.083**	**0.09**	**0.12**	**0.26**	**0.067**	**0.07**	**0.037**	**0.041**	**0.025**	**0.016**	**0.063**
Beryllium, Dissolved	0.004	0.004	0.0044 U	0.0044 U	**0.01** J	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U
Calcium, Dissolved	NE	NE	**95.9**	**293**	**544**	**233**	**78.1**	**78.1**	**280**	**357**	**225**	**137**	**174**	**122**	**222**	**110**	**41.2**	**186**
Chromium, Dissolved	0.1	0.1	**0.0031** J	**0.0027** J	**0.16**	0.0056 U	0.0056 U	0.0056 U	0.0056 U	**0.0028** J	0.0056 U	**0.0044** J	**0.0026** J	0.0056 U	**0.0024** J	0.0056 U	0.0056 U	**0.0022** J
Cobalt, Dissolved	0.01	0.029	0.0056 U	0.0056 U	**0.077**	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Copper, Dissolved	1	1	0.011 U	0.011 U	0.056 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	**0.0038** J
Iron, Dissolved	0.3 [8]	0.3 [8]	**0.35**	**2**	**231**	**10.2**	**6.3**	**6.4**	**16.7**	**21.1**	**16.2**	**0.26**	**0.29**	**0.8**	**0.11**	**0.17**	**0.041** J	**0.22**
Lead, Dissolved	0.005	0.005	0.0067 U	0.0067 U	**0.85**	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Magnesium, Dissolved	NE	NE	**88.9**	**124**	**46.9**	**45**	**65.5**	**65.8**	**51.4**	**52.8**	**35.8**	**35.7**	**83.9**	**40.9**	**7.4**	**33.4**	**4.4**	**51**
Manganese, Dissolved	0.3	0.3	**0.075**	**1.2**	**10.1**	**0.91**	**0.87**	**0.87**	**1.7**	**0.98**	**1.4**	**0.025**	**0.097**	**0.085**	0.0056 U	**0.043**	**0.012**	**0.035**
Nickel, Dissolved	0.1	0.1	0.022 U	0.022 U	**0.063** J	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Potassium, Dissolved	NE	NE	**10.6**	**16.7**	**3.5**	**8**	**38.1**	**38**	**13.8**	**14.5**	**9.7**	**5.5**	**11.8**	**1.9**	**8.8**	**9.7**	**5.8**	**6.8**
Selenium, Dissolved	0.05	0.05	0.022 U	**0.0077** J	0.11 U	**0.012** J	**0.0077** J	0.022 U	**0.011** J	0.022 U	0.022 U	**0.029**	0.022 U	**0.021** J	**0.0097** J	**0.0081** J	0.022 U	**0.12**
Sodium, Dissolved	NE	NE	**155**	**134**	**104**	**70.5**	**29.1**	**28.9**	**13**	**27.8**	**57.7**	**44.7**	**125**	**44**	**135**	**181**	**75.6**	**81.2**
Thallium, Dissolved	0.002	0.002	0.022 U	0.022 U	0.11 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Vanadium, Dissolved	0.17	0.49	0.0056 U	0.0056 U	**0.062**	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Zinc, Dissolved	2	2	0.022 U	0.022 U	**0.79**	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U

TABLE 7

SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS - DECEMBER 2024 GROUNDWATER SAMPLING EVENT
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	PADEP Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	MW-11D	MW-12	MW-13	MW-14	MW-15	MW-15	MW-16	MW-17	MW-18	MW-19S	MW-19D	MW-20	MW-21	MW-22S	MW-22D	MW-23
Sample ID			MW-11D DUP	MW-12	MW-13	MW-14	MW-15	MW-15 DUP	MW-16	MW-17	MW-18	MW-19S	MW-19D	MW-20	MW-21	MW-22S	MW-22D	MW-23
Date			12/12/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/11/2024	12/12/2024	12/12/2024	12/11/2024	12/11/2024	12/9/2024	12/9/2024	12/11/2024
General Chemistry (mg/L)																		
Acidity, Total	NE	NE	5 U	**64**	**832**	**33**	**26**	**18**	**41**	**105**	**36**	**16**	5 U	**22**	5 U	5 U	5 U	**19**
Alkalinity, Total	NE	NE	**131**	**1,050**	50 U	**813**	**238**	**242**	**688**	**1,050**	**402**	**246**	**74**	**397**	**67**	**106**	**80**	**325**
Chloride	250 (8)	250 (8)	**325**	**148**	**24.1**	**108**	**22.3**	**22.3**	**7.1**	**23.5**	**102**	**62.6**	**235**	**3.4**	**194**	**92.2**	**16.1**	**63.2**
Nitrate-N	10	10	2.5 U	2.5 U	**0.9** J	2.5 U	2.5 U	2.5 U	**0.97** J	2.5 U	2.5 U	**4.7**	2.5 U	**4.5**	2.5 U	**0.39** J	**1.4**	**37.9**
pH (SU)	6.5 - 8.5	NE	**8.16**	**8.07**	**2.44**	**8.13**	**8.09**	**8.14**	**8.06**	**8.11**	**8.35**	**8.45**	**8.04**	**8.44**	**9.29**	**8.46**	**8.2**	**8.42**
Specific Conductance (µmhos/cm)	NE	NE	**2,490**	**3,090**	**7,190**	**1,640**	**1,140**	**1,140**	**1,540**	**2,070**	**1,420**	**1,030**	**2,410**	**929**	**1,640**	**2,090**	**592**	**1,530**
Sulfate	250 (8)	250 (8)	**814**	**328**	**2,310**	5 U	**322**	**318**	**295**	**206**	**282**	**284**	**824**	**112**	**570**	**611**	**173**	**299**
Total Dissolved Solids	NE	NE	**1,330**	**1,730**	**4,240**	**2,290**	**778**	**760**	**1,060**	**1,260**	**992**	**744**	**1,460**	**638**	**1,180**	**1,060**	**326**	**1,070**
Turbidity (NTU)	NE	NE	**3.5**	**35**	**36**	**110**	**31**	**31**	**180**	**220**	**180**	**1.1**	**5**	**1.5**	**3.1**	**12**	**50**	**1.5**

TABLE 7

SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS - DECEMBER 2024 GROUNDWATER SAMPLING EVENT
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	PADEP Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	MW-24	MW-24	MW-25	MW-26S	MW-26D	MW-27S	MW-27D	MW-28	MW-29	MW-30	MW-31	MW-32	MW-33	MW-34S	MW-34S	MW-34D
Sample ID			MW-24	MW-24-DUP	MW-25	MW-26S	MW-26D	MW-27S	MW-27D	MW-28	MW-29	MW-30	MW-31	MW-32	MW-33	MW-34S	MW-34S DUP	MW-34D
Date			12/11/2024	12/11/2024	12/11/2024	12/18/2024	12/18/2024	12/17/2024	12/17/2024	12/10/2024	12/12/2024	12/13/2024	12/12/2024	12/12/2024	12/12/2024	12/18/2024	12/18/2024	12/18/2024
Volatile Organic Compounds (µg/L) [1]																		
1,2,4-Trimethylbenzene	130	530	1 U	1 U	1 U	**534**	**679**	**41.1** J	**227**	1 U	**969**	1 U	**242** J	1 U	1 U	**312**	**146**	**151**
1,3,5-Trimethylbenzene	130	530	1 U	1 U	1 U	**201**	**172**	**21.2** J	**112**	1 U	**870**	1 U	**129** J	1 U	1 U	**77.3**	**42.7** J	**59.7**
Acetone	31,000	88,000	10 U	10 U	10 U	500 U	500 U	500 U	1,000 U	10 U	5,000 U	10 U	5,000 U	10 U	10 U	500 U	500 U	500 U
Benzene	5	5	**43.4**	**37.7**	1 U	**14,400**	**4,060**	**1,640**	**5,090**	**2.8**	**13,400**	1 U	**19,100**	1 U	1 U	**3,370**	**3,550**	**3,810**
Bromomethane	10	10	1 U	1 U	1 U	50 U	50 U	**19.8** J	100 U	1 U	500 U	1 U	500 U	1 U	1 U	50 U	50 U	50 U
Carbon Disulfide	1,500	6,200	1 U	**0.29** J	1 U	50 U	50 U	50 U	100 U	1 U	500 U	1 U	500 U	1 U	1 U	50 U	50 U	50 U
Chloroform	80	80	1 U	1 U	1 U	50 U	50 U	50 U	100 U	1 U	500 U	1 U	500 U	1 U	1 U	50 U	50 U	50 U
Chloromethane	30	30	1 U	1 U	1 U	50 U	50 U	50 U	100 U	1 U	500 U	1 U	500 U	1 U	1 U	50 U	50 U	50 U
Ethylbenzene	700	700	**0.57** J	**0.52** J	1 U	**1,040**	**587**	**17.3** J	**53.5** J	1 U	500 U	1 U	500 U	1 U	1 U	**165**	**100**	**104**
Isopropylbenzene	840	3,500	1 U	1 U	1 U	50 U	50 U	50 U	100 U	1 U	500 U	1 U	500 U	1 U	1 U	**16** J	50 U	50 U
m&p-Xylene [2]	10,000 [3]	10,000 [3]	2 U	2 U	2 U	**894**	**483**	**162**	**358**	2 U	**32,900**	2 U	**996** J	2 U	2 U	**563**	**381**	**405**
o-Xylene	10,000 [3]	10,000 [3]	1 U	1 U	1 U	**452**	**267**	**74.6**	**245**	1 U	**9,600**	1 U	**547**	1 U	1 U	**328**	**239**	**239**
Styrene	100	100	1 U	1 U	1 U	**19.7** J	**16.6** J	**23.8** J	**56.5** J	1 U	**369** J	1 U	500 U	1 U	1 U	**31.5** J	**31.9** J	**63.4**
Toluene	1,000	1,000	1 U	1 U	1 U	**1,190**	**340**	**221**	**496**	1 U	**25,300**	1 U	**2,740**	1 U	1 U	**431**	**442**	**648**
Total Xylenes	10,000	10,000	3 U	3 U	3 U	**1,350**	**750**	**236**	**603**	3 U	**42,500**	3 U	**1,540**	3 U	3 U	**891**	**619**	**643**
Semi-Volatile Organic Compounds (µg/L) [4]																		
2,4-Dimethylphenol	690	1,900	3 U	3 U	3 U	**3,810**	**563**	**475**	**543**	3 U	3 U	3 U	3 U	3 U	3 U	**64**	**55.4**	**97.4**
2-Methylnaphthalene	6.3	26	1.5 U	1.5 U	1.5 U	**470**	**312**	**69.4**	**482**	1.5 U	**8.3**	1.5 U	**199**	1.5 U	1.5 U	**52.2**	**47**	**429**
4-Nitroaniline	33	140	3 U	3 U	3 U	7.5 U	7.5 U	3.4 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	7.5 U	7.5 U
4-Nitrophenol	60	60	3 U	3 U	3 U	7.5 U	7.5 U	3.4 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	7.5 U	**4.9** J
Acenaphthene	2,100	3,800	1.5 U	1.5 U	1.5 U	**12.4**	**8.5**	**4.3**	**14.8**	**2.1**	1.5 U	1.5 U	**1.5** J	1.5 U	1.5 U	**7**	**5.9**	**11.3**
Acenaphthylene	2,100	5,800	1.5 U	1.5 U	1.5 U	**14**	**2.2** J	**50.1**	**200**	1.5 U	**1.1** J	1.5 U	**3**	1.5 U	1.5 U	**14.3**	**10.6**	**85.6**
Acetophenone	3,500	9,700	3 U	3 U	3 U	7.5 U	7.5 U	**11.2**	3 U	3 U	**81.6**	3 U	**193**	3 U	3 U	**5.8** J	**4.4** J	**7.3** J
Anthracene	66	66	1.5 U	1.5 U	1.5 U	**19.4**	**16.6**	**12.1**	**23.6**	1.5 U	1.5 U	1.5 U	**0.32** J	1.5 U	1.5 U	**3.8**	**3.1** J	**22.6**
Benzo(a)anthracene	0.3	3.9	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	**1.5** J	**0.83** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	3.8 U
Benzo(a)pyrene	0.2	0.2	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	**0.87** J	**0.26** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	3.8 U
Benzo(b)fluoranthene	0.18	1.2	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	**0.9** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	3.8 U
Benzo(g,h,i)perylene	0.26	0.26	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	1.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	3.8 U
Benzo(k)fluoranthene	0.18	0.55	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	**0.78** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	3.8 U
Biphenyl	0.84	3.5	3 U	3 U	3 U	**42.9**	**29.9**	**6.1**	**40.1**	3 U	**0.46** J	3 U	**8.2**	3 U	3 U	**17.4**	**15**	**53.1**
bis(2-Chloroethoxy)methane	100	290	3 U	3 U	3 U	7.5 U	7.5 U	3.4 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	7.5 U	7.5 U
bis(2-Ethylhexyl)phthalate	6	6	3 U	3 U	3 U	7.5 U	7.5 U	3.4 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	7.5 U	7.5 U
Butylbenzylphthalate	340	1,400	3 U	3 U	3 U	7.5 U	7.5 U	3.4 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	7.5 U	7.5 U
Caprolactam	NE	NE	3 U	3 U	3 U	**2.2** J	7.5 U	3.4 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	7.5 U	7.5 U
Carbazole	33	140	3 U	3 U	3 U	**401**	**345**	**120**	**456**	3 U	**6**	3 U	**7.5**	3 U	3 U	**113**	**101**	**311** J
Chrysene	1.8	1.9	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	**1.4** J	**0.71** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	3.8 U
Dibenzo(a,h)anthracene	0.052	0.6	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	1.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	3.8 U
Dibenzofuran	35	97	3 U	3 U	3 U	**101**	**72.4**	**25.6**	**97.4**	3 U	**0.47** J	3 U	**8.9**	3 U	3 U	**38.4**	**33.8**	**125**
Diethylphthalate	28,000	78,000	3 U	3 U	3 U	7.5 U	**0.71** J	3.4 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	7.5 U	7.5 U
Di-n-Butylphthalate	3,500	9,700	3 U	3 U	3 U	7.5 U	7.5 U	3.4 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	7.5 U	7.5 U
Di-n-Octylphthalate	350	970	3 U	3 U	3 U	7.5 U	7.5 U	3.4 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	7.5 U	7.5 U
Fluoranthene	260	260	1.5 U	1.5 U	1.5 U	**11.8**	**8.4**	**12.1**	**10.8**	1.5 U	1.5 U	1.5 U	**0.45** J	1.5 U	1.5 U	**2.7** J	**2.3** J	**13.5**
Fluorene	1,400	1,900	1.5 U	1.5 U	1.5 U	**97.9**	**79.4**	**35.8**	**103**	1.5 U	1.5 U	1.5 U	**6.6**	1.5 U	1.5 U	**30.8**	**27**	**123**
Indeno(1,2,3-cd)pyrene	0.18	2.3	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	**0.48** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	3.8 U
m&p-Cresol [5]	170 [6]	490 [6]	3 U	3 U	3 U	**639**	**92.8**	**193**	**364**	3 U	3 U	3 U	3 U	3 U	3 U	**16.8**	**13.1**	**27.6**
Naphthalene	100	100	1.5 U	1.5 U	1.5 U	**12,900**	**7,310**	**1,600**	**12,500**	**1.5**	**742**	1.5 U	**3,800**	**0.7** J	1.5 U	**3,550**	**3,120**	**9,800**
Nitrobenzene	1.2	6.3	3 U	3 U	3 U	7.5 U	7.5 U	3.4 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	7.5 U	7.5 U	**10.4**

TABLE 7

SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS - DECEMBER 2024 GROUNDWATER SAMPLING EVENT
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	PADEP Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	MW-24	MW-24	MW-25	MW-26S	MW-26D	MW-27S	MW-27D	MW-28	MW-29	MW-30	MW-31	MW-32	MW-33	MW-34S	MW-34S	MW-34D
Sample ID			MW-24	MW-24-DUP	MW-25	MW-26S	MW-26D	MW-27S	MW-27D	MW-28	MW-29	MW-30	MW-31	MW-32	MW-33	MW-34S	MW-34S DUP	MW-34D
Date			12/11/2024	12/11/2024	12/11/2024	12/18/2024	12/18/2024	12/17/2024	12/17/2024	12/10/2024	12/12/2024	12/13/2024	12/12/2024	12/12/2024	12/12/2024	12/18/2024	12/18/2024	12/18/2024
Semi-Volatile Organic Compounds (µg/L) [4] (cont.)																		
o-Cresol	1,700	4,900	3 U	3 U	3 U	**5,570**	**909**	**325**	**682**	3 U	3 U	3 U	3 U	3 U	3 U	**7** J	**6.4** J	**28.3**
Phenanthrene	1,100	1,100	1.5 U	1.5 U	1.5 U	**97.2**	**70.5**	**31.2**	**87.3**	1.5 U	1.5 U	1.5 U	**3.9**	1.5 U	1.5 U	**29.6**	**27.8**	**114**
Phenol	2,000	2,000	8 U	8 U	8 U	**329**	**42.4**	**186**	**196**	8 U	**11.8**	8 U	**279** J	8 U	8 U	**24.3**	**21.7**	**29.5**
Pyrene	130	130	1.5 U	1.5 U	1.5 U	**6.5**	**4.7**	**7.8**	**6.7**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**1.5** J	**1.2** J	**7.9**
Total Metals (mg/L) [7]																		
Aluminum, Total	0.2 [8]	0.2 [8]	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.11 U	0.11 U	**0.84**	0.11 U	0.11 U	0.11 U	0.11 U	**0.17**	**0.17**	0.11 U
Antimony, Total	0.006	0.006	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.044 U	**0.0083** J	**0.015** J	0.022 U	0.022 U	0.022 U	**0.0077** J	0.022 U	0.022 U	0.022 U	0.022 U
Arsenic, Total	0.01	0.01	**0.013**	**0.01**	0.009 U	**0.0073** J	0.009 U	0.018 U	**0.0097**	**0.061**	0.009 U	**0.0041** J	**0.0099**	**0.0058** J	0.009 U	**0.0071** J	0.009 U	**0.0052** J
Barium, Total	2	2	**0.12**	**0.12**	**0.085**	**0.027**	**0.024**	**0.022**	**0.047**	**0.09**	**0.041**	**0.031**	**0.046**	**0.075**	**0.041**	**0.033**	**0.033**	**0.035**
Beryllium, Total	0.004	0.004	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0088 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U
Cadmium, Total	0.005	0.005	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0044 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U
Calcium, Total	NE	NE	**286**	**283**	**247**	**163**	**247**	**606**	**282**	**165**	**113**	**201**	**296**	**199**	**145**	**158**	**157**	**152**
Chromium, Total	0.1	0.1	**0.0026** J	0.0056 U	**0.0047** J	0.0056 U	0.0056 U	**0.0051** J	0.0056 U	0.0056 U	0.0056 U	**0.0034** J	**0.0029** J	0.0056 U	**0.0043** J	**0.0021** J	0.0056 U	**0.0027** J
Cobalt, Total	0.01	0.029	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.011 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Copper, Total	1	1	**0.0049** J	**0.005** J	**0.004** J	**0.0039** J	**0.0043** J	**0.0096** J	**0.0038** J	0.011 U	0.011 U	**0.005** J	**0.0097** J	0.011 U	**0.0063** J	**0.0041** J	**0.0044** J	**0.0037** J
Iron, Total	0.3 [8]	0.3 [8]	**14.1**	**14.7**	**16.8**	**0.14**	**0.31**	**0.86**	**1.5**	**9.7**	**0.65**	**0.5**	**0.29**	**1.2**	**0.19**	**1**	**1**	**0.3**
Lead, Total	0.005	0.005	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.013 U	0.0067 U	0.0067 U	**0.04**	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Magnesium, Total	NE	NE	**47.2**	**46.3**	**39.7**	**58.5**	**57.4**	**67.2**	**39.7**	**72.8**	**1.5**	**39.3**	**27.8**	**39.4**	**39**	**43.1**	**42.9**	**44.2**
Manganese, Total	0.3	0.3	**1.1**	**1.1**	**1.5**	**0.22**	**0.49**	**0.82**	**0.55**	**0.95**	**0.0036** J	**0.035**	**0.12**	**0.7**	**0.025**	**0.39**	**0.39**	**0.21**
Nickel, Total	0.1	0.1	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.044 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Potassium, Total	NE	NE	**27.3**	**26.8**	**11.6**	**3.5**	**3.8**	**3.8**	**2.5**	**15.2**	**24.4**	**6.2**	**21.2**	**15**	**4.6**	**5.4**	**5.4**	**8**
Selenium, Total	0.05	0.05	0.022 U	**0.011** J	**0.009** J	**0.022** J	**0.21** J	**0.034** J	**0.021** J	0.022 U	0.022 U	**0.04**	**0.024**	0.022 U	**0.061**	**0.044**	**0.042**	**0.042**
Sodium, Total	NE	NE	**76.9**	**76.3**	**65.5**	**151**	**88.6**	**133**	**68.6**	**67.7**	**298**	**94**	**335**	**116**	**167**	**189**	**188**	**196**
Vanadium, Total	0.17	0.49	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.011 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Zinc, Total	2	2	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.044 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Dissolved Metals (mg/L) [9]																		
Aluminum, Dissolved	0.2 [8]	0.2 [8]	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.11 U	0.11 U	**0.82**	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Antimony, Dissolved	0.006	0.006	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.044 U	0.022 U	0.022 U	**0.012** J	0.022 U	**0.014** J	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Arsenic, Dissolved	0.01	0.01	**0.0097**	**0.0073** J	0.009 U	**0.005** J	**0.0072** J	**0.0064** J	**0.028**	**0.054**	0.009 U	0.009 U	**0.0077** J	**0.007** J	0.009 U	**0.0061** J	**0.0059** J	**0.0094**
Barium, Dissolved	2	2	**0.12**	**0.12**	**0.081**	**0.027**	**0.024**	**0.021** J	**0.062**	**0.087**	**0.039**	**0.031**	**0.047**	**0.076**	**0.042**	**0.032**	**0.033**	**0.034**
Beryllium, Dissolved	0.004	0.004	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0088 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U
Calcium, Dissolved	NE	NE	**281**	**280**	**247**	**165**	**252**	**612**	**299**	**163**	**104**	**200**	**283**	**201**	**146**	**171**	**172**	**156**
Chromium, Dissolved	0.1	0.1	**0.0058**	0.0056 U	0.0056 U	**0.016**	0.0056 U	0.011 U	0.0056 U	0.0056 U	**0.0023** J	**0.0031** J	**0.003** J	0.0056 U	**0.005** J	0.0056 U	0.0056 U	0.0056 U
Cobalt, Dissolved	0.01	0.029	0.0056 U	0.0056 U	**0.0033** J	0.0056 U	0.0056 U	0.011 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Copper, Dissolved	1	1	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.022 U	0.011 U	0.011 U	0.011 U	**0.0061** J	**0.0054** J	0.011 U	**0.087**	0.011 U	0.011 U	0.011 U
Iron, Dissolved	0.3 [8]	0.3 [8]	**14.4**	**14.6**	**15.7**	**0.17**	**0.29**	**0.71**	**1.6**	**9.5**	**0.55**	**0.39**	**0.17**	**1.1**	**0.19**	**0.18**	**0.19**	**0.24**
Lead, Dissolved	0.005	0.005	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.013 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Magnesium, Dissolved	NE	NE	**45.6**	**45.7**	**39.2**	**59**	**58.6**	**63.2**	**46.5**	**70.8**	**1.9**	**37.9**	**27.2**	**39.5**	**39.1**	**44.3**	**44.4**	**45**
Manganese, Dissolved	0.3	0.3	**1**	**1**	**1.5**	**0.23**	**0.52**	**0.74**	**0.55**	**0.91**	0.0056 U	**0.03**	**0.086**	**0.68**	**0.025**	**0.48**	**0.48**	**0.21**
Nickel, Dissolved	0.1	0.1	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.044 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	**0.15**	0.022 U	0.022 U	0.022 U
Potassium, Dissolved	NE	NE	**26.4**	**26.3**	**11.5**	**3.5**	**4**	**2.9**	**3.7**	**14.7**	**24.4**	**6.1**	**20.3**	**15**	**4.6**	**5.7**	**5.7**	**7.9**
Selenium, Dissolved	0.05	0.05	0.022 U	**0.0089** J	**0.0087** J	0.022 U	0.022 U	0.044 U	0.022 U	**0.011** J	**0.011** J	**0.046**	**0.014** J	0.022 U	**0.064**	**0.037**	**0.036**	0.022 U
Sodium, Dissolved	NE	NE	**75.7**	**75.3**	**64.9**	**150**	**88.3**	**121**	**66.2**	**67.2**	**293**	**94.4**	**340**	**118**	**167**	**191**	**191**	**194**
Thallium, Dissolved	0.002	0.002	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.044 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Vanadium, Dissolved	0.17	0.49	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.011 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Zinc, Dissolved	2	2	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.044 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	**0.0076** J	0.022 U	0.022 U	0.022 U

TABLE 7

SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS - DECEMBER 2024 GROUNDWATER SAMPLING EVENT
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	PADEP Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	MW-24	MW-24	MW-25	MW-26S	MW-26D	MW-27S	MW-27D	MW-28	MW-29	MW-30	MW-31	MW-32	MW-33	MW-34S	MW-34S	MW-34D
Sample ID			MW-24	MW-24-DUP	MW-25	MW-26S	MW-26D	MW-27S	MW-27D	MW-28	MW-29	MW-30	MW-31	MW-32	MW-33	MW-34S	MW-34S DUP	MW-34D
Date			12/11/2024	12/11/2024	12/11/2024	12/18/2024	12/18/2024	12/17/2024	12/17/2024	12/10/2024	12/12/2024	12/13/2024	12/12/2024	12/12/2024	12/12/2024	12/18/2024	12/18/2024	12/18/2024
General Chemistry (mg/L)																		
Acidity, Total	NE	NE	**22**	**36**	**35**	**14**	**52**	**39**	**24**	**24**	5 U	**11**	5 U	**17**	**6**	**18**	**17**	**7**
Alkalinity, Total	NE	NE	**295**	**294**	**460**	**486**	**534**	**377**	**392**	**795**	**187**	**280**	**96**	**331**	**203**	**493**	**506**	**506**
Chloride	250 (8)	250 (8)	**70.9**	**73.8**	**103**	**101**	**37.2**	**36**	**18.3**	**74.5**	**231**	**46.3**	**534**	**217**	**114**	**123**	**124**	**104**
Nitrate-N	10	10	2.5 U	2.5 U	2.5 U	2.5 U	**2** J	**4.7**	**2** J	2.5 U	2.5 U	**14**	**1.1** J	2.5 U	**18.1**	**2.8**	**3.3**	2.5 U
pH (SU)	6.5 - 8.5	NE	**8.27**	**8.28**	**8.3**	**8.29**	**8.23**	**8.14**	**8.24**	**8.31**	**9.64**	**8.49**	**8.42**	**8.32**	**8.25**	**8.2**	**8.26**	**8.43**
Specific Conductance (µmhos/cm)	NE	NE	**1,850**	**1,850**	**1,580**	**3,120**	**2,030**	**3,210**	**2,290**	**1,490**	**2,070**	**1,470**	**3,000**	**1,660**	**1,640**	**2,030**	**2,050**	**1,950**
Sulfate	250 (8)	250 (8)	**708**	**697**	**339**	**685**	**598**	**1,540**	**647**	**4.2** J	**452**	**423**	**1,050**	**148**	**442**	**444**	**453**	**450**
Total Dissolved Solids	NE	NE	**1,420**	**1,380**	**1,100**	**1,200**	**1,320**	**2,660**	**1,360**	**826**	**1,240**	**1,100**	**2,200**	**1,050**	**1,210**	**1,020**	**1,170**	**1,500**
Turbidity (NTU)	NE	NE	**75**	**70**	**130**	**450**	**22**	**12**	**9.3**	**110**	**16**	**1.9**	**120**	**9.1**	**1**	**380**	**360**	**550**

TABLE 7

SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS - DECEMBER 2024 GROUNDWATER SAMPLING EVENT
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	PADEP Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	MW-35S	MW-35D	MW-36S	MW-36D	MW-37	MW-38D	MW-39	MW-40	MW-40	MW-41	MW-42	MW-43	MW-44	MW-45
Sample ID			MW-35S	MW-35D	MW-36S	MW-36D	MW-37	MW-38D	MW-39	MW-40	MW-40 DUP	MW-41	MW-42	MW-43	MW-44	MW-45
Date			12/13/2024	12/13/2024	12/17/2024	12/17/2024	12/10/2024	12/11/2024	12/9/2024	12/9/2024	12/9/2024	12/9/2024	12/17/2024	12/9/2024	12/9/2024	12/10/2024
Volatile Organic Compounds (µg/L) [1]																
1,2,4-Trimethylbenzene	130	530	1 U	1 U	**203** J	**179** J	1 U	1 U	1 U	**18** J	**17.9** J	**83.9**	50 U	1 U	1 U	50 U
1,3,5-Trimethylbenzene	130	530	1 U	1 U	**135** J	**123** J	1 U	1 U	1 U	**10.4** J	**10.5** J	**14.1** J	50 U	1 U	1 U	50 U
Acetone	31,000	88,000	**4.6** J	10 U	5,000 U	5,000 U	10 U	10 U	10 U	500 U	500 U	500 U	500 U	10 U	10 U	500 U
Benzene	5	5	**3.1**	1 U	**7,910**	**6,260**	1 U	1 U	**9.5**	**1,510**	**1,540**	**27,100**	50 U	1 U	1 U	**27,600**
Bromomethane	10	10	**0.53** J	1 U	500 U	500 U	1 U	1 U	1 U	50 U	50 U	50 U	50 U	1 U	1 U	50 U
Carbon Disulfide	1,500	6,200	1 U	1 U	500 U	500 U	1 U	1 U	1 U	50 U	50 U	50 U	50 U	1 U	1 U	50 U
Chloroform	80	80	1 U	1 U	500 U	500 U	1 U	1 U	1 U	50 U	50 U	50 U	50 U	1 U	1 U	50 U
Chloromethane	30	30	1 U	1 U	500 U	500 U	1 U	1 U	1 U	50 U	50 U	50 U	50 U	1 U	1 U	**17.2** J
Ethylbenzene	700	700	1 U	1 U	**219** J	500 U	1 U	1 U	1 U	50 U	50 U	**230**	50 U	1 U	1 U	**27.3** J
Isopropylbenzene	840	3,500	1 U	1 U	500 U	500 U	1 U	1 U	1 U	50 U	50 U	**12.8** J	50 U	1 U	1 U	50 U
m&p-Xylene [2]	10,000 [3]	10,000 [3]	2 U	2 U	**1,950**	**1,690**	2 U	2 U	2 U	**41.8** J	**42.8** J	**118**	100 U	2 U	2 U	**413**
o-Xylene	10,000 [3]	10,000 [3]	**0.99** J	1 U	**551**	**504**	1 U	1 U	**0.54** J	**19.1** J	**19.7** J	**97.1**	50 U	1 U	1 U	**180**
Styrene	100	100	1 U	1 U	**209** J	**188** J	1 U	1 U	1 U	**13.4** J	**12.6** J	50 U	50 U	1 U	1 U	50 U
Toluene	1,000	1,000	1 U	1 U	**1,430**	**2,260**	1 U	1 U	**0.26** J	**95.6**	**94.3**	**152**	50 U	1 U	1 U	**2,510**
Total Xylenes	10,000	10,000	**0.99** J	3 U	**2,500**	**2,200**	3 U	3 U	3 U	**60.9** J	**62.5** J	**215**	150 U	3 U	3 U	**593**
Semi-Volatile Organic Compounds (µg/L) [4]																
2,4-Dimethylphenol	690	1,900	3 U	**0.53** J	**311**	**183**	3 U	3 U	**1.3** J	**116**	**114**	**117**	3 U	3 U	3 U	3 U
2-Methylnaphthalene	6.3	26	1.5 U	1.5 U	**791** E	**828**	1.5 U	1.5 U	1.5 U	**81.5**	**76.5**	**205**	**0.58** J	1.5 U	**0.27** J	**0.67** J
4-Nitroaniline	33	140	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
4-Nitrophenol	60	60	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Acenaphthene	2,100	3,800	1.5 U	1.5 U	**15.2**	**12.6**	**0.64** J	1.5 U	**3.1**	**41.4**	**40.7**	**159**	1.5 U	1.5 U	**5.1**	**0.59** J
Acenaphthylene	2,100	5,800	**1.5**	**0.77** J	**417**	**409**	1.5 U	1.5 U	**0.94** J	**83.3**	**82.7**	**6.6**	**0.32** J	1.5 U	**0.33** J	1.5 U
Acetophenone	3,500	9,700	3 U	3 U	3 U	**12.2**	3 U	3 U	**3.8**	3 U	3 U	3 U	3 U	3 U	**3** J	**60.4**
Anthracene	66	66	**0.67** J	**0.55** J	**23**	**18.2**	1.5 U	1.5 U	**0.62** J	**12.2**	**11.9**	**6.3**	1.5 U	1.5 U	**0.52** J	1.5 U
Benzo(a)anthracene	0.3	3.9	1.5 U	1.5 U	**2.2**	**1.2** J	1.5 U	1.5 U	1.5 U	**0.72** J	**0.71** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzo(a)pyrene	0.2	0.2	1.5 U	1.5 U	**0.94** J	**0.4** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzo(b)fluoranthene	0.18	1.2	1.5 U	1.5 U	**0.91** J	**0.45** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzo(g,h,i)perylene	0.26	0.26	1.5 U	1.5 U	**0.41** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzo(k)fluoranthene	0.18	0.55	1.5 U	1.5 U	**0.94** J	**0.37** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Biphenyl	0.84	3.5	3 U	3 U	**64.8**	**61.4**	3 U	3 U	3 U	**11.6**	**11.2**	**20.6**	3 U	3 U	3 U	3 U
bis(2-Chloroethoxy)methane	100	290	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
bis(2-Ethylhexyl)phthalate	6	6	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Butylbenzylphthalate	340	1,400	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Caprolactam	NE	NE	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Carbazole	33	140	3 U	3 U	**572**	**513**	**0.85** J	3 U	**2.7** J	**92.3**	**90.1**	**94.2**	**0.48** J	3 U	**0.74** J	3 U
Chrysene	1.8	1.9	1.5 U	1.5 U	**1.8**	**0.86** J	1.5 U	1.5 U	1.5 U	**0.37** J	**0.46** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dibenzo(a,h)anthracene	0.052	0.6	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dibenzofuran	35	97	3 U	3 U	**138**	**138**	**1** J	3 U	**1.3** J	**47.3**	**47.8**	**58.9**	3 U	3 U	**0.66** J	3 U
Diethylphthalate	28,000	78,000	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Di-n-Butylphthalate	3,500	9,700	3 U	3 U	3 U	3 U	3 U	3 U	**1.1** J	3 U	3 U	3 U	3 U	3 U	**0.71** J	3 U
Di-n-Octylphthalate	350	970	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Fluoranthene	260	260	**0.25** J	1.5 U	**17.2**	**12.7**	**0.55** J	1.5 U	**0.54** J	**15.6**	**15.6**	**7.4**	1.5 U	1.5 U	**0.87** J	1.5 U
Fluorene	1,400	1,900	1.5 U	1.5 U	**136**	**143**	**0.52** J	1.5 U	**3.4**	**71.1**	**71.8**	**59.5**	1.5 U	1.5 U	**2.2**	**0.71** J
Indeno(1,2,3-cd)pyrene	0.18	2.3	1.5 U	1.5 U	**0.48** J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
m&p-Cresol [5]	170 [6]	490 [6]	3 U	3 U	**292**	**72.1**	3 U	3 U	3 U	**136**	**146**	**29.5**	3 U	3 U	3 U	**23.3**
Naphthalene	100	100	**1.1** J	**2.8**	**8,780**	**11,200**	**1.1** J	1.5 U	**7.6**	**2,120**	**2,080**	**11,300** E	**7.7**	**0.75** J	**2.5**	**10.4**
Nitrobenzene	1.2	6.3	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U

TABLE 7

SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS - DECEMBER 2024 GROUNDWATER SAMPLING EVENT
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	PADEP Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	MW-35S	MW-35D	MW-36S	MW-36D	MW-37	MW-38D	MW-39	MW-40	MW-40	MW-41	MW-42	MW-43	MW-44	MW-45
Sample ID			MW-35S	MW-35D	MW-36S	MW-36D	MW-37	MW-38D	MW-39	MW-40	MW-40 DUP	MW-41	MW-42	MW-43	MW-44	MW-45
Date			12/13/2024	12/13/2024	12/17/2024	12/17/2024	12/10/2024	12/11/2024	12/9/2024	12/9/2024	12/9/2024	12/9/2024	12/17/2024	12/9/2024	12/9/2024	12/10/2024
Semi-Volatile Organic Compounds (µg/L) [4] (cont.)																
o-Cresol	1,700	4,900	3 U	3 U	**839**	**308**	3 U	3 U	3 U	**150**	**151**	**17.1**	3 U	3 U	3 U	**18.5**
Phenanthrene	1,100	1,100	1.5 U	1.5 U	**116**	**99.7**	**0.39** J	1.5 U	**4.2**	**95.9**	**94.8**	**64.2**	1.5 U	1.5 U	**3.1**	**0.82** J
Phenol	2,000	2,000	8 U	8 U	**62.5**	**23.6**	8 U	8 U	8 U	**84.2**	**96.2**	**43.7**	8 U	8 U	8 U	**156**
Pyrene	130	130	1.5 U	1.5 U	**9.3**	**7.3**	**0.46** J	1.5 U	**0.3** J	**9.3**	**9.4**	**4.1**	1.5 U	1.5 U	**0.54** J	1.5 U
Total Metals (mg/L) [7]																
Aluminum, Total	0.2 [8]	0.2 [8]	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	**0.65**	**0.043** J	**0.043** J	**0.075** J	**0.78**	0.11 U	**0.27**	**0.044** J
Antimony, Total	0.006	0.006	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	**0.012** J	0.022 U	**0.0089** J	0.022 U	0.022 U	0.022 U	0.022 U	**0.01** J
Arsenic, Total	0.01	0.01	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	**0.043**	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	**0.004** J
Barium, Total	2	2	**0.018**	**0.012**	**0.024**	**0.015**	**0.07**	**0.02**	**0.29**	**0.21**	**0.21**	**0.2**	**0.017**	**0.31**	**0.24**	**0.045**
Beryllium, Total	0.004	0.004	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U
Cadmium, Total	0.005	0.005	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U
Calcium, Total	NE	NE	**465**	**355**	**563**	**520**	**136**	**337**	**131**	**132**	**132**	**93.1**	**52.3**	**142**	**177**	**171**
Chromium, Total	0.1	0.1	**0.0029** J	**0.0028** J	**0.0028** J	**0.0026** J	0.0056 U	**0.0042** J	**0.0059**	**0.0074**	**0.009**	**0.0059**	0.0056 U	0.0056 U	**0.0068**	0.0056 U
Cobalt, Total	0.01	0.029	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	**0.004** J	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	**0.0029** J	0.0056 U
Copper, Total	1	1	**0.026**	**0.02**	**0.0089** J	**0.0086** J	0.011 U	**0.014**	**0.0059** J	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	**0.0037** J	0.011 U
Iron, Total	0.3 [8]	0.3 [8]	**0.92**	**0.72**	**6.2**	**0.81**	**5.8**	**3.3**	**23.3**	**10.6**	**10.5**	**7.9**	**1**	**6**	**29.9**	**2.4**
Lead, Total	0.005	0.005	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	**0.003** J	0.0067 U	0.0067 U	0.0067 U	**0.0027** J	0.0067 U	0.0067 U	0.0067 U
Magnesium, Total	NE	NE	**72.5**	**54**	**80.9**	**91.2**	**41.7**	**77.1**	**56.2**	**117**	**118**	**163**	**6.4**	**41.9**	**114**	**34.9**
Manganese, Total	0.3	0.3	**0.38**	**0.0087**	**1.6**	**0.55**	**1.2**	**0.33**	**1.5**	**1.2**	**1.2**	**1.4**	**0.029**	**0.49**	**0.92**	**0.82**
Nickel, Total	0.1	0.1	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Potassium, Total	NE	NE	**3.6**	**2.2**	**8.6**	**3.1**	**15.6**	**3.2**	**49.8**	**50.6**	**50.7**	**39.7**	**4.1**	**21.4**	**40.6**	**13**
Selenium, Total	0.05	0.05	0.022 U	0.022 U	**0.016** J	**0.018** J	0.022 U	**0.21**	0.022 U	0.022 U	0.022 U	0.022 U	**0.008** J	0.022 U	0.022 U	0.022 U
Sodium, Total	NE	NE	**104**	**65.1**	**31.1**	**38.9**	**42.3**	**17.9**	**123**	**81.7**	**81.6**	**29.4**	**45.2**	**29.1**	**38.1**	**29.7**
Vanadium, Total	0.17	0.49	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Zinc, Total	2	2	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Dissolved Metals (mg/L) [9]																
Aluminum, Dissolved	0.2 [8]	0.2 [8]	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Antimony, Dissolved	0.006	0.006	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Arsenic, Dissolved	0.01	0.01	**0.0034** J	0.009 U	**0.0073** J	**0.0073** J	0.009 U	0.009 U	**0.062**	**0.004** J	0.009 U	0.009 U	**0.005** J	0.009 U	**0.0031** J	0.009 U
Barium, Dissolved	2	2	**0.018**	**0.012**	**0.024**	**0.015**	**0.068**	**0.02**	**0.26**	**0.21**	**0.21**	**0.2**	**0.012**	**0.31**	**0.24**	**0.045**
Beryllium, Dissolved	0.004	0.004	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U
Calcium, Dissolved	NE	NE	**449**	**341**	**566**	**529**	**135**	**329**	**163**	**138**	**139**	**99.6**	**45.9**	**147**	**185**	**163**
Chromium, Dissolved	0.1	0.1	**0.0047** J	**0.0032** J	**0.0024** J	**0.0027** J	0.0056 U	**0.0047** J	0.0056 U	**0.0064**	**0.013**	**0.0071**	0.0056 U	**0.0066**	**0.0049** J	0.0056 U
Cobalt, Dissolved	0.01	0.029	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Copper, Dissolved	1	1	**0.023**	**0.016**	**0.007** J	**0.0064** J	0.011 U	**0.0068** J	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Iron, Dissolved	0.3 [8]	0.3 [8]	**0.9**	**0.7**	**5.9**	**0.8**	**5.5**	**3.3**	**21**	**10.5**	**10.6**	**8**	0.067 U	**5.8**	**28.9**	**2.1**
Lead, Dissolved	0.005	0.005	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Magnesium, Dissolved	NE	NE	**70.4**	**52.5**	**81.1**	**91.6**	**40.7**	**76.6**	**55.6**	**118**	**118**	**165**	**5.6**	**41.8**	**113**	**34.3**
Manganese, Dissolved	0.3	0.3	**0.39**	**0.012**	**1.6**	**0.57**	**1.1**	**0.35**	**1.6**	**1.2**	**1.2**	**1.4**	**0.0033** J	**0.47**	**0.89**	**0.72**
Nickel, Dissolved	0.1	0.1	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Potassium, Dissolved	NE	NE	**3.6**	**2.1**	**8.5**	**3.1**	**15.3**	**3.2**	**44.1**	**51.1**	**51.2**	**40.9**	**3.9**	**21.3**	**40.6**	**12.7**
Selenium, Dissolved	0.05	0.05	**0.031**	**0.032**	0.022 U	0.022 U	**0.013** J	**0.21**	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Sodium, Dissolved	NE	NE	**105**	**65.2**	**30.6**	**38.4**	**41.5**	**17.9**	**155**	**82.8**	**82.7**	**30.4**	**43.5**	**29.1**	**38.2**	**28.2**
Thallium, Dissolved	0.002	0.002	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	**0.011** J	0.022 U	0.022 U	0.022 U	0.022 U
Vanadium, Dissolved	0.17	0.49	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Zinc, Dissolved	2	2	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U

TABLE 7

SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS - DECEMBER 2024 GROUNDWATER SAMPLING EVENT
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Site ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	PADEP Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	MW-35S	MW-35D	MW-36S	MW-36D	MW-37	MW-38D	MW-39	MW-40	MW-40	MW-41	MW-42	MW-43	MW-44	MW-45
Sample ID			MW-35S	MW-35D	MW-36S	MW-36D	MW-37	MW-38D	MW-39	MW-40	MW-40 DUP	MW-41	MW-42	MW-43	MW-44	MW-45
Date			12/13/2024	12/13/2024	12/17/2024	12/17/2024	12/10/2024	12/11/2024	12/9/2024	12/9/2024	12/9/2024	12/9/2024	12/17/2024	12/9/2024	12/9/2024	12/10/2024
General Chemistry (mg/L)																
Acidity, Total	NE	NE	**24**	**21**	**50**	**51**	**15**	**40**	**8**	**5**	**33**	5 U	**5**	**6**	**62**	**25**
Alkalinity, Total	NE	NE	**302**	**77**	**368**	**358**	**481**	**382**	**748**	**1,230**	**1,230**	**1,100**	**210**	**617**	**1,160**	**213**
Chloride	250 [8]	250 [8]	**32.3**	**15.2**	**22**	**27.5**	**55.2**	**9.4**	**143**	**69.3**	**69.6**	**15.4**	**1.4** J	**26**	**41.4**	**11.4**
Nitrate-N	10	10	**37.4**	**18.2**	**28.7**	**30.7**	2.5 U	**39.8**	2.5 U	2.5 U	2.5 U	2.5 U	**0.64** J	2.5 U	2.5 U	2.5 U
pH (SU)	6.5 - 8.5	NE	**8.26**	**8.36**	**8.13**	**8.17**	**8.29**	**8.28**	**8.13**	**8.05**	**8.04**	**8.02**	**8.46**	**8.18**	**8.02**	**8.04**
Specific Conductance (µmhos/cm)	NE	NE	**2,810**	**1,910**	**3,450**	**3,500**	**1,070**	**1,870**	**1,740**	**1,810**	**2,550**	**1,810**	**416**	**1,090**	**2,070**	**1,090**
Sulfate	250 [8]	250 [8]	**1,120**	**785**	**1,400**	**1,290**	**82.2**	**601**	**40.7**	**34.4**	**33.3**	**9.4**	**14.6**	5 U	5 U	**379**
Total Dissolved Solids	NE	NE	**2,170**	**1,560**	**2,430**	**2,320**	**678**	**1,510**	**878**	**1,090**	**1,100**	**978**	**280**	**582**	**1,000**	**838**
Turbidity (NTU)	NE	NE	**1.2**	**0.85**	**50**	**3.4**	**70**	**1.1**	**230**	**55**	**55**	**28**	**28**	**70**	**200**	**23**

Notes/Qualifiers:

µg/L - microgram per liter
µhos/cm - Micromhos per centimeter
E - result exceeded calibration range
J - result is less than the RL but greater than or equal to the MDL; estimated
MDL - Method Detection Limit
mg/L - milligram per liter
MSC - Medium-Specific Concentration
MW - Monitoring Well
NE - Not Established
NTU - Nephelometric Turbidity Unit
PADEP - Pennsylvania Department of Environmental Protection
RL - Reporting Limit
SU - Standard Unit
SVOC - Semi-Volatile Organic Compound
TDS - Total Dissolved Solids
U - Not Detected
VOC - Volatile Organic Compound

Bolded - Concentration is detected in the sample
Shaded - Detected concentration exceeds the PADEP Residential Groundwater MSC
Boxed - Detected concentration exceeds the PADEP Nonresidential Groundwater MSC

It is noted that several of the non-detect results have reporting limits that exceed the respective screening criteria.

[1] - An additional 40 VOCs were analyzed for, but not detected.
[2] - Not a single chemical but a mixture of the isomers m-xylene and p-xylene.
[3] - Total Xylene used as a surrogate.
[4] - An additional 33 SVOCs were analyzed for, but not detected.
[5] - Not a single chemical but a mixture of the isomers m-cresol and p-cresol.
[6] - p-Cresol used as a surrogate.
[7] - Total mercury, Total silver, and Total thallium were also analyzed for, but not detected.
[8] - Secondary Maximum Contaminant Level (SMCL)
[9] - Dissolved cadmium, dissolved mercury, and dissolved silver were also analyzed for, but not detected.

TABLE 8

SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL DETECTIONS - DECEMBER 2024 GROUNDWATER SAMPLING EVENT
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Sample ID	PADEP Residential Groundwater MSCs (Used Aquifer; TDS≤2500)	Nonresidential Groundwater MSCs (Used Aquifer; TDS≤2500)	Equipment Rinsate		Field Blank	Trip Blank													
Date			EB-1 11/19/2024	EB-2 11/20/2024	FB-1 11/20/2024	TB-1 11/12/2024	TB-2 11/13/2024	TB-3 11/14/2024	TB-4 11/15/2024	TB-5 11/18/2024	TB-6 11/20/2024	TB-7 11/21/2024	TB-40 12/9/2024	TB-41 12/10/2024	TB-42 12/11/2024	TB-43 12/12/2024	TB-44 12/13/2024	TB-45 12/17/2024	TB-46 12/18/2024
Volatile Organic Compounds (µg/L) [1]																			
Chloroform	80	80	**19.6**	**18.1**	**20.3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	30	30	1 U	1 U	1 U	**0.38** J	1 U	1 U	1 U	**0.37** J	1 U	1 U	1 U	**0.38** J	1 U	1 U	1 U	1 U	1 U
Methyl acetate	35,000	97,000	2 U	2 U	2 U	2 U	2 U	**0.43** J	2 U	**0.36** J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
trans-1,3-Dichloropropene	NE	NE	1 U	1 U	1 U	**0.38** J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Semi-Volatile Organic Comounds (µg/L) [2]																			
None Detected																			
Total Metals (mg/L) [3]																			
Calcium, Total	NE	NE	**0.13**	**0.075** J	0.11 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium, Total	NE	NE	**0.2** J	0.56 U	0.56 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes/Qualifiers:

- - Not Analyzed
µg/L - microgram per liter
EB - Equipment Blank
FB -Field Blank
J - result is less than the RL but greater than or equal to the MDL; estimated
MDL - Method Detection Limit
mg/L - milligram per liter
MSC - Medium-Specific Concentration
NE - Not Established
PADEP - Pennsylvania Department of Environmental Protection
QA/QC - Quality Assurance/Quality Control
RL - Reporting Limit
SVOC - Semi-Volatile Organic Compound
TB - Trip Blank
U - Not Detected
VOC - Volatile Organic Compound

Bolded - Concentration is detected in the sample
Shaded - Detected concentration exceeds the PADEP Residential Groundwater MSC
Boxed - Detected concentration exceeds the PADEP Nonresidential Groundwater MSC

[1] - An additional 51 VOCs were analyzed for, but not detected.
[2] - Sixty eight SVOCs were analyzed for, but not detected.
[3] - An additional 21 total metals were analyzed for, but not detected.

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5D	MW-6S	MW-6D	MW-7	MW-8S	MW-8D	MW-9S	MW-9D	MW-10S	MW-10D
Volatile Organic Comounds (µg/L)																
Benzene	December 2022	*0.6 U*	6,800	2.4	*0.6 U*	4.7	14	*0.6 U*	2.9	*0.6 U*	380 E	290 E	-	280 E	-	-
	March 2023	*0.6 U*	6,900 H	*0.6 U*	*0.6 U*	0.62 J	3.2	*0.6 UH*	2.4	*0.6 U*	1,100 E	*0.6 U*	-	490 E	-	-
	January 2024	*5 U*	4,720	*1 U*	*1 U*	0.74 J	34.9	*5 U*	*5 U*	*1 U*	2,070	2,610	306	5,090	6,760	12,600
	April 2024	0.35 J	6,310	*1 U*	*1 U*	2.2	9	*5 U*	*5 U*	*1 U*	1,870	2,010	5,750	825	8,440	13,300
	August 2024	0.82 J	3,240	*1 U*	*1 U*	0.32 J	0.31 J	*1 U*	*1 U*	*1 U*	658	2,720	430	8,050	8,400	7,940
	December 2024	0.54 J	4,050	*1 U*	*1 U*	0.41 J	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	750	308 J	491	4,640	10,400
Bromomethane	December 2022	*0.89 U^c*	*0.89 U^c*	*0.89 U*	*0.89 U*	*0.89 U*	*0.89 U^c*	*0.89 U^c*	*0.89 U^c*	*0.89 U*	*0.89 U^c*	*0.89 U^c*	-	*0.89 U^c*	-	-
	March 2023	*0.89 U^c*	*0.89 U^c*	*0.89 U^c*	*0.89 U^c*	*0.89 U^c*	*0.89 U^c*	*0.89 U^c*	*0.89 U^c*	*0.89 U^c*	*0.89 U*	*0.89 U*	-	*0.89 U*	-	-
	January 2024	*5 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	2.6 J	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	April 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	August 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	December 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*20 U*	*500 U*	27.8	*50 U*	*50 U*
Chlorobenzene	December 2022	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	-	*0.5 U*	-	-
	March 2023	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	-	*0.5 U*	-	-
	January 2024	*5 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	April 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	August 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	December 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*20 U*	*500 U*	*20 U*	*50 U*	*50 U*
Chloroethane	December 2022	*0.9 U*	*0.9 U*	*0.9 U*	*0.9 U*	*0.9 U*	*0.9 U*	*0.9 U*	*0.9 U*	*0.9 U*	*0.9 U*	*0.9 U*	-	*0.9 U*	-	-
	March 2023	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U*	*0.9 U*	-	*0.9 U*	-	-
	January 2024	*5 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	April 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	August 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	December 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*20 U*	*500 U*	*20 U*	*50 U*	*50 U*
Chloromethane	December 2022	0.96 J	*0.9 U*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U*	*0.9 U*	*0.9 U^c*	*0.9 U*	*0.9 U*	-	*0.9 U*	-	-
	March 2023	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	*0.9 U^c*	-	*0.9 U^c*	-	-
	January 2024	1.9 J	*50 U*	0.34 J	0.36 J	0.45 J	2.8 J	1.8 J	2.5 J	0.33 J	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	23.9 J
	April 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	August 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	December 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*20 U*	*500 U*	*20 U*	*50 U*	*50 U*
Dichlorodifluoromethane	December 2022	*0.83 U*	*0.83 U*	*0.83 U*	*0.83 U*	*0.83 U*	*0.83 U*	*0.83 U*	*0.83 U*	*0.83 U*	*0.83 U*	*0.83 U*	-	*0.83 U*	-	-
	March 2023	*0.83 U^c*	*0.83 U^c*	*0.83 U^c*	*0.83 U^c*	*0.83 U^c*	*0.83 U^c*	*0.83 U^c*	*0.83 U^c*	*0.83 U^c*	*0.83 U^c*	*0.83 U^c*	-	*0.83 U^c*	-	-
	January 2024	*5 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	April 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	August 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	December 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*20 U*	*500 U*	*20 U*	*50 U*	*50 U*
Ethylbenzene	December 2022	*0.51 U*	35	*0.51 U*	*0.51 U*	*0.51 U*	*0.51 U*	*0.51 U*	*0.51 U*	*0.51 U*	67 E	310 E	-	12	-	-
	March 2023	*0.51 U*	25	*0.51 U*	*0.51 U*	*0.51 U*	*0.51 U*	*0.51 U*	*0.51 U*	*0.51 U*	130 E	400 E	-	8.3	-	-
	January 2024	*5 U*	23.9 J	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	187	420	103	59.9	46.6 J	78.1
	April 2024	*1 U*	36 J	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	161	357	149	*50 U*	96.4	97.5
	August 2024	*1 U*	19.9 J	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	98.7	410	*50 U*	35.1 J	82.7	54.1
	December 2024	*1 U*	27.6 J	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	94.7	*500 U*	16.2 J	87.4	107
Isopropylbenzene	December 2022	*0.34 U*	4.9	*0.34 U*	*0.34 U*	*0.34 U*	*0.34 U*	*0.34 U*	*0.34 U*	*0.34 U*	8.9	9.2	-	3.3	-	-
	March 2023	*0.34 U*	2.5	*0.34 U*	*0.34 U*	*0.34 U*	*0.34 U*	*0.34 U*	*0.34 U*	*0.34 U*	3.9	6.2	-	1.8	-	-
	January 2024	*5 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*50 U*	*50 U*	11.8 J	*50 U*	*50 U*	*50 U*
	April 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	August 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
	December 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	6.9 J	*500 U*	*20 U*	*50 U*	*50 U*

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5D	MW-6S	MW-6D	MW-7	MW-8S	MW-8D	MW-9S	MW-9D	MW-10S	MW-10D
Volatile Organic Comounds (µg/L)																
m&p-Xylene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*10 U*	*100 U*	*2 U*	*2 U*	*2 U*	*10 U*	*10 U*	*10 U*	*2 U*	78.2 J	49.2 J	432	425	217	483
	April 2024	*2 U*	163	*2 U*	*2 U*	0.8 J	*10 U*	*10 U*	*10 U*	*2 U*	*100 U*	*100 U*	1,410	84.3 J	520	634
	August 2024	*2 U*	*100 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*100 U*	*100 U*	41 J	373	356	236
	December 2024	*2 U*	*100 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*10 U*	20.1 J	*1,000 U*	60.1	406	604
o-Xylene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	43.6 J	31.2 J	151	142	122	247
	April 2024	*1 U*	46.9 J	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	19.8 J	*50 U*	386	39.1 J	241	288
	August 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	70.8	157	213	146
	December 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	14.4 J	*500 U*	35.9	205	283
Styrene	December 2022	*0.47 U*	2.6	*0.47 U*	*0.47 U*	*0.47 U*	*0.47 U*	*0.47 U*	0.61 J	*0.47 U*	*0.47 U*	*0.47 U*	-	7	-	-
	March 2023	*0.47 U*	*0.47 U*	*0.47 U*	*0.47 U*	*0.47 U*	*0.47 U*	*0.47 U*	*0.47 U*	*0.47 U*	1.1	*0.47 U*	-	33	-	-
	January 2024	*5 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	15.7 J	15.3 J	*50 U*	74.2	19.4 J	23.5 J
	April 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*50 U*	*50 U*	93.5	37.6 J	*50 U*	*50 U*
	August 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	75	*50 U*	*50 U*
	December 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*20 U*	*500 U*	11 J	22 J	25.9 J
Toluene	December 2022	*0.46 U*	10	0.65 J	*0.46 U*	*0.46 U*	1.1	*0.46 U*	2.5	*0.46 U*	35	20	-	90 E	-	-
	March 2023	*0.46 U*	2.6	*0.46 U*	*0.46 U*	*0.46 U*	*0.46 U*	*0.46 U*	*0.46 U*	*0.46 U*	94 E	150 E	-	190 E	-	-
	January 2024	*5 U*	19.3 J	*1 U*	*1 U*	*1 U*	9.3	*5 U*	*5 U*	*1 U*	96.1	46.4 J	160	998	635	1,470
	April 2024	*1 U*	34.6 J	*1 U*	*1 U*	0.29 J	*5 U*	*5 U*	*5 U*	*1 U*	38.6 J	37.2 J	1,110	242	1,190	1,790
	August 2024	0.41 J	*50 U*	*1 U*	0.28 J	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	20.1 J	30.7 J	24.6 J	1,160	740	709
	December 2024	*1 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	37.6	*500 U*	60.2	711	1,500
Total Xylenes	December 2022	*0.89 U*	31	*0.89 U*	*0.89 U*	*0.89 U*	*0.89 U*	*0.89 U*	4.5	*0.89 U*	31	24	-	75	-	-
	March 2023	*0.89 U*	11	*0.89 U*	*0.89 U*	*0.89 U*	*0.89 U*	*0.89 U*	*0.89 U*	*0.89 U*	43	75	-	110 E	-	-
	January 2024	*15 U*	*150 U*	*3 U*	*3 U*	*3 U*	*15 U*	*15 U*	*15 U*	*3 U*	122 J	80.4 J	583	567	339	730
	April 2024	*3 U*	210	*3 U*	*3 U*	0.8 J	*15 U*	*15 U*	*15 U*	*3 U*	*150 U*	*150 U*	1,800	123 J	761	922
	August 2024	*3 U*	*150 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*150 U*	*150 U*	112 J	530	568	382
	December 2024	*3 U*	*150 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*15 U*	34.5 J	*1,500 U*	96	612	887
Semi-Volatile Organic Compounds (µg/L)																
Acenaphthene	December 2022	*0.065 U*	85	*0.068 U*	*0.063 U*	*0.063 U*	*0.071 U*	0.68	1.6	0.099 J	2 J	1.5	-	9.1	-	-
	March 2023	*0.068 U*	100	*0.071 U*	*0.065 U*	*0.065 U*	*0.068 U*	0.097 J	0.29	*0.068 U*	1.3	2.8	-	13	-	-
	January 2024	*1.5 U*	189	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	3.2	5.7	9.6	18.2	9.2	7.7
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	3.2	5.4 J	9.2	20	9.6 J	8.5 J
	August 2024	*6 U*	224	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	3.4 J	7.1	12.4	22.1	11.2	10.2
	December 2024	*1.5 U*	214	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	7.4	*1.5 U*	18	4	10.3
Acenaphthylene	December 2022	*0.065 U*	13	*0.068 U*	*0.063 U*	*0.063 U*	*0.071 U*	6.9	19	*0.065 U*	1.1 J	0.67 J	-	33	-	-
	March 2023	*0.068 U*	4.6	*0.071 U*	*0.065 U*	*0.065 U*	*0.068 U*	0.22	2.7	*0.068 U*	1.1	1.6	-	67	-	-
	January 2024	*1.5 U*	2	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.97 J	*1.6 U*	2.2	1.1 J	57.6	76.3	22.3	19.7
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	2.7	2.4 J	52.2	178	28.1	25.2
	August 2024	*6 U*	1.3 J	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	2.4 J	3.4 J	30.7	98.6	23.7	19.2
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.27 J	*1.5 U*	0.41 J	5.7	3.8	54.3	3.7	26.2
Anthracene	December 2022	*0.049 U*	5.5	*0.051 U*	*0.047 U*	*0.047 U*	*0.053 U*	1.1	3	*0.049 U*	0.8 J	0.63 J	-	5 J	-	-
	March 2023	*0.051 U*	4.1	*0.053 U*	*0.049 U*	*0.049 U*	*0.051 U*	0.16 J	0.47	*0.051 U*	0.67 J	0.59 J	-	9.5	-	-
	January 2024	*1.5 U*	12.5	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.34 J	*1.6 U*	1.4 J	0.63 J	13.5	26.1	11.1	11.1
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	1.4 J	1.3 J	11.5	25.8	13.4 J	14.8 J
	August 2024	*6 U*	13.5	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	1.5 J	1.2 J	15.2	23.6	13.7	12.2
	December 2024	*1.5 U*	14.3	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.33 J	*1.5 U*	0.76 J	1.1 J	16.1	9.7	4.3	13.5

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5D	MW-6S	MW-6D	MW-7	MW-8S	MW-8D	MW-9S	MW-9D	MW-10S	MW-10D
Semi-Volatile Organic Compounds (µg/L)																
Benzo(a)anthracene	December 2022	*0.075 U*	*1.2 U*	*0.078 U*	*0.072 U*	*0.072 U*	*0.082 U*	*0.082 U*	0.31 J	*0.075 U*	*0.82 U*	*0.39 U*	-	*2.3 U*	-	-
	March 2023	*0.078 U*	*0.78 U*	*0.082 U*	*0.075 U*	*0.075 U*	*0.078 U*	*0.075 U*	0.11 J	0.095 J	*0.31 U*	*0.3 U*	-	2.3 J	-	-
	January 2024	*1.5 U*	0.54 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.36 J	*1.6 U*	*1.5 U*	*1.6 U*	1.5 J	16.9	1.7	0.83 J
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	1.1 J	5.5 J	*15 U*	*15 U*
	August 2024	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	*6 U*	*6 U*	1.5 J	6	*6 U*	*6 U*
	December 2024	0.53 J	0.54 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	1.4 J	2.3	*1.5 U*	*3.8 U*
Benzo(a)pyrene	December 2022	*0.053 U*	*0.83 U*	*0.055 U*	*0.051 U*	*0.051 U*	*0.058 U*	*0.058 U*	*0.22 U*	*0.053 U*	*0.58 U*	*0.28 U*	-	*1.6 U*	-	-
	March 2023	*0.055 U*	*0.55 U*	*0.058 U*	*0.053 U*	*0.053 U*	*0.055 U*	*0.053 U*	*0.055 U*	0.078 J	*0.22 U*	*0.21 U*	-	*1.4 U*	-	-
	January 2024	*1.5 U*	*1.6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.5 U*	*1.6 U*	0.87 J	12.8	0.94 J	0.53 J
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	3 J	*15 U*	*15 U*
	August 2024	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	*6 U*	*6 U*	*6 U*	3.9 J	*6 U*	*6 U*
	December 2024	0.55 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.56 J	0.99 J	*1.5 U*	*3.8 U*
Benzo(b)fluoranthene	December 2022	*0.097 U*	*1.5 U*	*0.1 U*	*0.093 U*	*0.093 U*	*0.11 U*	*0.11 U*	*0.4 U*	*0.097 U*	*1.1 U*	*0.51 U*	-	*2.9 U*	-	-
	March 2023	*0.1 U*	*1 U*	*0.11 U*	*0.097 U*	*0.097 U*	*0.1 U*	*0.097 U*	*0.1 U*	*0.1 U*	*0.4 U*	*0.39 U*	-	*2.6 U*	-	-
	January 2024	*1.5 U*	*1.6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.35 J	*1.6 U*	*1.5 U*	*1.6 U*	0.84 J	10.9	0.92 J	0.41 J
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	0.36 J	2.9 J	*15 U*	*15 U*
	August 2024	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	*6 U*	*6 U*	*6 U*	3.2 J	*6 U*	*6 U*
	December 2024	0.69 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.73 J	1.1 J	*1.5 U*	*3.8 U*
Benzo(g,h,i)perylene	December 2022	*0.069 U*	*1.1 U*	*0.072 U*	*0.066 U*	*0.066 U*	*0.075 U*	*0.075 U*	*0.29 U*	*0.069 U*	*0.75 U*	*0.36 U*	-	*2.1 U*	-	-
	March 2023	*0.072 U*	*0.72 U*	*0.075 U*	*0.069 U*	*0.069 U*	*0.072 U*	*0.069 U*	*0.072 U*	0.077 J	*0.29 U*	*0.28 U*	-	*1.9 U*	-	-
	January 2024	*1.5 U*	*1.6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.5 U*	*1.6 U*	0.39 J	6.1	0.46 J	0.28 J
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	*6 U*	*15 U*	*15 U*
	August 2024	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	*6 U*	*6 U*	*6 U*	1.9 J	*6 U*	*6 U*
	December 2024	0.58 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.72 J	*1.5 U*	*3.8 U*
Benzo(k)fluoranthene	December 2022	*0.088 U*	*1.4 U*	*0.092 U*	*0.085 U*	*0.085 U*	*0.096 U*	*0.096 U*	*0.37 U*	*0.088 U*	*0.96 U*	*0.46 U*	-	*2.6 U*	-	-
	March 2023	*0.092 U*	*0.92 U*	*0.096 U*	*0.088 U*	*0.088 U*	*0.092 U*	*0.088 U*	*0.092 U*	*0.092 U*	*0.37 U*	*0.35 U*	-	*2.4 U*	-	-
	January 2024	*1.5 U*	*1.6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.5 U*	*1.6 U*	0.67 J	10.1	0.82 J	0.49 J
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	0.3 J	2.2 J	*15 U*	*15 U*
	August 2024	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	*6 U*	*6 U*	*6 U*	2.5 J	*6 U*	*6 U*
	December 2024	0.65 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.72 J	*1.5 U*	*3.8 U*
Biphenyl	December 2022	*0.14 U*	4.6 J	*0.15 U*	*0.14 U*	*0.14 U*	*0.15 U*	1.4	3 J	*0.14 U*	*1.5 U*	*0.74 U*	-	8.4 J	-	-
	March 2023	*0.15 U*	1.7 J	*0.15 U*	*0.14 U*	*0.14 U*	*0.15 U*	*0.14 U*	0.22 J	*0.15 U*	*0.59 U*	1.3 J	-	11 J	-	-
	January 2024	*3 U*	*3.1 U*	*3.1 U*	*3 U*	*3 U*	*3 U*	*3.1 U*	*3 U*	*3.1 U*	*3 U*	2.9 J	39.2	19.3	19.8	25.4
	April 2024	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*12 U*	31.5	38.9	30.3	32.4
	August 2024	*12 U*	*12 U*	*12 U*	*3 U*	*3 U*	*3 U*	*3 U*	*12 U*	*3 U*	1.8 J	*12 U*	56.4	26.9	37.7	36.1
	December 2024	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	3 J	2.4 J	13.2	13.8	39.6
Chrysene	December 2022	*0.081 U*	*1.3 U*	*0.084 U*	*0.078 U*	*0.078 U*	*0.088 U*	*0.088 U*	*0.34 U*	*0.081 U*	*0.88 U*	*0.42 U*	-	*2.4 U*	-	-
	March 2023	*0.084 U*	*0.84 U*	*0.088 U*	*0.081 U*	*0.081 U*	*0.084 U*	*0.081 U*	0.14 J	0.088 J	*0.34 U*	*0.32 U*	-	*2.2 U*	-	-
	January 2024	*1.5 U*	*1.6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.5 U*	*1.6 U*	1.2 J	17.1	1.4 J	0.68 J
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	0.68 J	4.6 J	*15 U*	*15 U*
	August 2024	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	*6 U*	*6 U*	*6 U*	5.4 J	*6 U*	*6 U*
	December 2024	0.57 J	0.29 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.94 J	2.1	*1.5 U*	*3.8 U*
Dibenzo(a,h)anthracene	December 2022	*0.072 U*	*1.1 U*	*0.075 U*	*0.069 U*	*0.069 U*	*0.078 U*	*0.078 U*	*0.3 U*	*0.072 U*	*0.78 U*	*0.38 U*	-	*2.2 U*	-	-
	March 2023	*0.075 U*	*0.75 U*	*0.078 U*	*0.072 U*	*0.072 U*	*0.075 U*	*0.072 U*	*0.075 U*	0.082 J	*0.3 U*	*0.29 U*	-	*2 U*	-	-
	January 2024	*1.5 U*	*1.6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.5 U*	*1.6 U*	*1.6 U*	2	*1.5 U*	*1.5 U*
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	*6 U*	*15 U*	*15 U*
	August 2024	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*
	December 2024	0.65 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.59 J	*1.5 U*	*3.8 U*

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5D	MW-6S	MW-6D	MW-7	MW-8S	MW-8D	MW-9S	MW-9D	MW-10S	MW-10D
Semi-Volatile Organic Compounds (µg/L)																
Fluoranthene	December 2022	*0.06 U*	7.6	*0.063 U*	*0.058 U*	*0.058 U*	*0.065 U*	1.7	5.9	*0.06 U*	0.71 J	0.66 J	-	8	-	-
	March 2023	*0.063 U*	8	*0.065 U*	*0.06 U*	*0.06 U*	*0.063 U*	0.5	1.7	0.088 J	0.53 J	0.74 J	-	17	-	-
	January 2024	*1.5 U*	12	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.76 J	1.1 J	*1.6 U*	1.5	1.4 J	14.4	59.5	12.4	7.6
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	1.4 J	1.6 J	13.2	33.5	9.6 J	11.2 J
	August 2024	*6 U*	16.4	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	1.4 J	1.4 J	16.9	32.6	10.5	10.9
	December 2024	*1.5 U*	13.7	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	1.6	17.3	21.3	3.9	11.1
Fluorene	December 2022	*0.069 U*	70	*0.072 U*	*0.066 U*	*0.066 U*	*0.075 U*	6.4	19	*0.069 U*	5.7	3.4	-	47	-	-
	March 2023	*0.072 U*	68	*0.075 U*	*0.069 U*	*0.069 U*	*0.072 U*	*0.069 U*	1.5	*0.072 U*	3.8	4.7	-	69	-	-
	January 2024	*1.5 U*	128	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.27 J	0.47 J	*1.6 U*	9.4	8.8	94.2	112	45.6	48.6
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	9.9	9	100	157	58.9	62.8
	August 2024	*6 U*	152	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	8.4	10.4	129	130	69	66.7
	December 2024	*1.5 U*	144	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	10.2	6.8	86.9	27.4	70.2
Indeno(1,2,3-cd)pyrene	December 2022	*0.085 U*	*1.3 U*	*0.089 U*	*0.082 U*	*0.082 U*	*0.092 U*	*0.092 U*	*0.35 U*	*0.085 U*	*0.92 U*	*0.44 U*	-	*2.6 U*	-	-
	March 2023	*0.089 U*	*0.89 U*	*0.092 U*	*0.085 U*	*0.085 U*	*0.089 U*	*0.085 U*	*0.089 U*	*0.089 U*	*0.35 U*	*0.34 U*	-	*2.3 U*	-	-
	January 2024	*1.5 U*	*1.6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.5 U*	*1.6 U*	0.48 J	6.5	0.51 J	0.28 J
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	1.3 J	*15 U*	*15 U*
	August 2024	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	*6 U*	*6 U*	*6 U*	2 J	*6 U*	*6 U*
	December 2024	0.61 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.72 J	*1.5 U*	*3.8 U*
Naphthalene	December 2022	0.16 J	910 E	0.54	0.23	*0.057 U*	0.32	46 E	140	4.7	230 4	250 E	-	870	-	-
	March 2023	0.077 J	250	*0.064 U*	*0.059 U*	*0.059 U*	*0.061 U*	*0.059 U*	1.4	*0.061 U*	290 E	390 E	-	1,400 E	-	-
	January 2024	1 J	418	*1.5 U*	1 J	27.7	0.78 J	5	3.3	2.9	534	320	5,670	2,550	5,680	10,300
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.48 J	*1.5 U*	0.35 J	*1.5 U*	*1.5 U*	447	243	2,950	2,970	8,700	10,400
	August 2024	*6 U*	61.9	*6 U*	*1.5 U*	1.5 J	1.3 J	*1.5 U*	*6 U*	*1.5 U*	212	210	7,020	4,680	9,250	7,480
	December 2024	*1.5 U*	113	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	1 J	*1.5 U*	1 J	264	3,620	1,040	3,490	11,900
Phenanthrene	December 2022	0.13 J	63	0.064 J	0.068 J	0.07 J	0.062 J	7.2	23	0.058 J	3	2.9	-	46	-	-
	March 2023	0.12 J	63	0.13 J	0.089 J	0.1 J	0.14 J	0.099 J	1.3	0.13 J	3.2	2.9	-	78	-	-
	January 2024	*1.5 U*	100	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.42 J	0.62 J	*1.6 U*	6.9	3.6	87.9	136	62.5	50.1
	April 2024	*1.5 U*	0.57 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	7.3	4.6 J	97.9	155	70.4	64.2
	August 2024	*6 U*	135	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	6.5	5.1 J	144	115	88.6	84.2
	December 2024	*1.5 U*	114	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	4.5	109	67.6	30	71.4
Pyrene	December 2022	*0.054 U*	4.4	*0.056 U*	*0.052 U*	*0.052 U*	*0.059 U*	0.82	2.9	*0.054 U*	*0.59 U*	0.29 J	-	4.5 J	-	-
	March 2023	*0.056 U*	3.8	*0.059 U*	*0.054 U*	*0.054 U*	*0.056 U*	0.19	0.79	0.097 J	0.31 J	0.41 J	-	9	-	-
	January 2024	*1.5 U*	7.5	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.43 J	0.79 J	*1.6 U*	0.8 J	0.82 J	9.3	41.8	7.6	4.5
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.83 J	*6 U*	8.6	20	5.3 J	*15 U*
	August 2024	*6 U*	9.9	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*1.5 U*	*6 U*	*6 U*	11.8	21.1	6.8	6.6
	December 2024	0.25 J	9.4	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.71 J	9.8	12.8	2.2	7

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-11S	MW-11D	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19S	MW-19D	MW-20	MW-21	MW-22S	MW-22D
Volatile Organic Comounds (µg/L)																
Benzene	December 2022	62 E	*0.6 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	62 H	2,100 H	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	224	1,720	76.3	374,000	*1 U*	26,000	30,500	128	12.9	34.2	117	3.4	66.9	604	922
	April 2024	273	2,720	7,500	486,000	*1 U*	18,200	16,200	6	17.7	*1 U*	150	0.88 J	45.4	2,010	608
	August 2024	171	2,270	47,300	627,000	*1 U*	23,900	37,300	0.35 J	*1 U*	0.75 J	137	1.5	77.3	783	646
	December 2024	186	2,150	4,890	629,000	*1 U*	23,200	13,100	0.73 J	*1 U*	0.42 J	113	*1 U*	13.7	885	0.38 J
Bromomethane	December 2022	*0.89 U*	*0.89 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.89 U^c*	*0.89 U^c*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*50 U*	*50 U*	*50 U*	*1 U*	*50 U*	*50 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*5 U*	*50 U*	*50 U*
	April 2024	*5 U*	*50 U*	*5 U*	*50 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*50 U*	*50 U*
	August 2024	*5 U*	*50 U*	*50 U*	*200 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*
	December 2024	*1 U*	*50 U*	*1,000 U*	*200 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*10 U*	*1 U*
Chlorobenzene	December 2022	*0.5 U*	*0.5 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.5 U*	*0.5 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*50 U*	*50 U*	*50 U*	*1 U*	*50 U*	*50 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*5 U*	*50 U*	*50 U*
	April 2024	*5 U*	*50 U*	*5 U*	*50 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*50 U*	*50 U*
	August 2024	*5 U*	*50 U*	*50 U*	*200 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*
	December 2024	*1 U*	*50 U*	*1,000 U*	*200 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*10 U*	*1 U*
Chloroethane	December 2022	*0.9 U*	*0.9 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.9 U^c*	*0.9 U^c*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*50 U*	*50 U*	*50 U*	*1 U*	*50 U*	*50 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*5 U*	*50 U*	*50 U*
	April 2024	*5 U*	*50 U*	*5 U*	*50 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*50 U*	*50 U*
	August 2024	2.9 J	*50 U*	*50 U*	*200 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*
	December 2024	*1 U*	*50 U*	*1,000 U*	*200 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*10 U*	*1 U*
Chloromethane	December 2022	*0.9 U^c*	*0.9 U^c*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.9 U^c*	*0.9 U^c*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*50 U*	*50 U*	*50 U*	0.44 J	*50 U*	*50 U*	2.1 J	2 J	*1 U*	*5 U*	*1 U*	*5 U*	*50 U*	*50 U*
	April 2024	*5 U*	*50 U*	*5 U*	*50 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*50 U*	*50 U*
	August 2024	*5 U*	*50 U*	*50 U*	*200 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*
	December 2024	*1 U*	*50 U*	*1,000 U*	*200 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*10 U*	*1 U*
Dichlorodifluoromethane	December 2022	*0.83 U*	*0.83 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.83 U^c*	*0.83 U^c*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*50 U*	*50 U*	*50 U*	*1 U*	*50 U*	*50 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*5 U*	*50 U*	*50 U*
	April 2024	*5 U*	*50 U*	*5 U*	*50 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*50 U*	*50 U*
	August 2024	*5 U*	*50 U*	*50 U*	*200 U*	*1 U*	*50 U*	*50 U*	0.47 J	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*
	December 2024	*1 U*	*50 U*	*1,000 U*	*200 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*10 U*	*1 U*
Ethylbenzene	December 2022	1	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	0.53 J	30	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	3 J	25.5 J	*50 U*	*50 U*	*1 U*	54.5	79.1	*5 U*	*5 U*	0.43 J	*5 U*	*1 U*	*5 U*	*50 U*	*50 U*
	April 2024	2.8 J	34.9 J	270	193	*1 U*	35.3 J	38.1 J	*1 U*	*1 U*	*1 U*	1.6	*1 U*	*5 U*	45.6 J	40.7 J
	August 2024	2.2 J	26.8 J	343	*200 U*	*1 U*	36.3 J	73.4	*1 U*	*1 U*	*1 U*	1.8	*1 U*	3	*50 U*	*50 U*
	December 2024	2.5	25.5 J	*1,000 U*	*200 U*	*1 U*	37.8 J	34.5 J	*1 U*	*1 U*	*1 U*	2.9	*1 U*	*5 U*	10.2	*1 U*
Isopropylbenzene	December 2022	*0.34 U*	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.34 U*	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*50 U*	*50 U*	12.9 J	*1 U*	*50 U*	*50 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*5 U*	*50 U*	*50 U*
	April 2024	*5 U*	*50 U*	8.9	15 J	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	0.5 J	*1 U*	1.3 J	*50 U*	*50 U*
	August 2024	*5 U*	*50 U*	12.1 J	*200 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	0.61 J	*1 U*	0.32 J	*50 U*	*50 U*
	December 2024	0.48 J	*50 U*	*1,000 U*	*200 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	*1 U*	0.62 J	*1 U*	*5 U*	*10 U*	*1 U*

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SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-11S	MW-11D	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19S	MW-19D	MW-20	MW-21	MW-22S	MW-22D
Volatile Organic Comounds (µg/L)																
m&p-Xylene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	3.9 J	40.1 J	29.1 J	6,080	*2 U*	829	621	3 J	*10 U*	0.59 J	*10 U*	*2 U*	3.2 J	*100 U*	*100 U*
	April 2024	3 J	53.4 J	2,390	6,320	*2 U*	491	298	1.3 J	2	*2 U*	1.9 J	*2 U*	11.8	84.8 J	77.9 J
	August 2024	2.8 J	44.7 J	2,140	5,590	*2 U*	523	581	*2 U*	*2 U*	*2 U*	1.8 J	*2 U*	9.4	*100 U*	*100 U*
	December 2024	3.2	49.6 J	*2,000 U*	2,790	*2 U*	568	344	*2 U*	*2 U*	*2 U*	0.83 J	*2 U*	*10 U*	12.4 J	*2 U*
o-Xylene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	4.2 J	47.1 J	*50 U*	1,470	*1 U*	305	235	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	2.2 J	*50 U*	*50 U*
	April 2024	3.2 J	67.7	776	1,360	*1 U*	182	114	0.44 J	0.72 J	*1 U*	2.3	*1 U*	3.8 J	58.4	18.2 J
	August 2024	3.2 J	64.7	1,180	1,330	*1 U*	213	211	*1 U*	*1 U*	*1 U*	1.6	*1 U*	7.5	21.8 J	*50 U*
	December 2024	3.3	61.7	*1,000 U*	679	*1 U*	221	141	*1 U*	*1 U*	*1 U*	0.61 J	*1 U*	*5 U*	19.4	*1 U*
Styrene	December 2022	*0.47 U*	12	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.47 U*	9	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*50 U*	*50 U*	*50 U*	*1 U*	77.2	*50 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*5 U*	*50 U*	*50 U*
	April 2024	*5 U*	*50 U*	*5 U*	*50 U*	*1 U*	46 J	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	17.6 J	*50 U*
	August 2024	*5 U*	17.7 J	33.9 J	*200 U*	*1 U*	63.7	18.1 J	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	0.94 J	*50 U*	*50 U*
	December 2024	0.24 J	*50 U*	*1,000 U*	*200 U*	*1 U*	55.4	*50 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	5.8 J	*1 U*
Toluene	December 2022	0.54 J	17	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.46 U*	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	1.3 J	13.6 J	34.8 J	79,600	*1 U*	4,880	1,330	28.6	3.8 J	4.4	4.3 J	*1 U*	4.9 J	*50 U*	*50 U*
	April 2024	*5 U*	*50 U*	1,060	66,800	*1 U*	2,760	349	0.95 J	1.2	*1 U*	0.46 J	*1 U*	4.3 J	34.1 J	*50 U*
	August 2024	*5 U*	*50 U*	941	74,100	*1 U*	3,140	119	*1 U*	*1 U*	*1 U*	0.44 J	*1 U*	14.8	*50 U*	*50 U*
	December 2024	0.6 J	12.9 J	*1,000 U*	72,900	*1 U*	2,480	217	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	1.4 J	5.8 J	*1 U*
Total Xylenes	December 2022	2.4	86	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*4.5 UH*	*110 UH*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	8.1 J	87.3 J	*150 U*	7,540	*3 U*	1,130	857	*15 U*	*15 U*	*3 U*	*15 U*	*3 U*	5.4 J	*150 U*	*150 U*
	April 2024	6.2 J	121 J	3,170	7,690	*3 U*	673	412	1.7 J	2.8 J	*3 U*	4.2	*3 U*	15.7	143 J	96.1 J
	August 2024	6 J	109 J	3,330	6,920	*3 U*	736	792	*3 U*	*3 U*	*3 U*	3.4	*3 U*	16.9	37.2 J	*150 U*
	December 2024	6.5	111 J	*3,000 U*	3,470	*3 U*	789	485	*3 U*	*3 U*	*3 U*	1.4 J	*3 U*	*15 U*	31.8	*3 U*
Semi-Volatile Organic Compounds (µg/L)																
Acenaphthene	December 2022	0.43	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	0.54	*6.8 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	1 J	5.2	0.8 J	*3.8 U*	*1.6 U*	18.9	223	1.2 J	*1.5 U*	*1.5 U*	1.7	2.4	*1.5 U*	0.49 J	0.85 J
	April 2024	0.89 J	8.8	0.78 J	*1.5 U*	*1.5 U*	40.3	151	*1.5 U*	*1.5 U*	*1.5 U*	2.2	*1.5 U*	0.33 J	0.48 J	0.52 J
	August 2024	0.92 J	8.2	8.9	*6 U*	*6 U*	32.9	258	*6 U*	*6 U*	*1.5 U*	4.2	0.35 J	0.35 J	0.53 J	0.9 J
	December 2024	1.4 J	8.5	3.5	*1.5 U*	*1.5 U*	16.3	200	0.42 J	*1.5 U*	*1.5 U*	4.2	*1.5 U*	0.51 J	1 J	*1.5 U*
Acenaphthylene	December 2022	0.62	12	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	0.65	9.5 J	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	1.5 J	24.7	4.8	*3.8 U*	*1.6 U*	-	6.7	0.35 J	*1.5 U*	*1.5 U*	1.4 J	*1.5 U*	0.77 J	1.3 J	2.8
	April 2024	0.57 J	43.5	*1.5 U*	*1.5 U*	*1.5 U*	252	4.7	*1.5 U*	*1.5 U*	*1.5 U*	1.8	*1.5 U*	0.71 J	0.73 J	1.9
	August 2024	0.55 J	39.6	35.7	*6 U*	*6 U*	365	14.4	*6 U*	*6 U*	*1.5 U*	3.4	*1.5 U*	2	*1.5 U*	1.2 J
	December 2024	1.5 J	36.8	8.5	*1.5 U*	*1.5 U*	274	7.4	0.83 J	*1.5 U*	*1.5 U*	2.5	*1.5 U*	0.75 J	1.9	*1.5 U*
Anthracene	December 2022	*0.049 U*	0.27 J	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	0.071 J	*5.1 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.5 U*	0.75 J	1.1 J	*3.8 U*	*1.6 U*	19.1	11.5	0.5 J	*1.5 U*	*1.5 U*	*1.5 U*	1.4 J	*1.5 U*	*1.6 U*	*1.6 U*
	April 2024	*1.5 U*	1.3 J	*1.5 U*	*1.5 U*	*1.5 U*	15.8	9.7	*1.5 U*	*1.5 U*	*1.5 U*	0.34 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	22.4	13.5	*6 U*	*6 U*	*1.5 U*	0.65 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	December 2024	*1.5 U*	1.2 J	0.28 J	*1.5 U*	*1.5 U*	15.8	8.3	*1.5 U*	*1.5 U*	*1.5 U*	0.75 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-11S	MW-11D	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19S	MW-19D	MW-20	MW-21	MW-22S	MW-22D
Semi-Volatile Organic Compounds (µg/L)																
Benzo(a)anthracene	December 2022	*0.075 U*	*0.39 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.075 U*	*7.8 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*1.6 U*	3	0.62 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.6 U*
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.43 J	0.8 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.75 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Benzo(a)pyrene	December 2022	*0.053 U*	*0.28 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.053 U*	*5.5 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*1.6 U*	2.3	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.6 U*
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.35 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.32 J	0.27 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Benzo(b)fluoranthene	December 2022	*0.097 U*	*0.51 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.097 U*	*10 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*1.6 U*	1.8	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.6 U*
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.26 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Benzo(g,h,i)perylene	December 2022	*0.069 U*	*0.36 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.069 U*	*7.2 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*1.6 U*	1.2 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.6 U*
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Benzo(k)fluoranthene	December 2022	*0.088 U*	*0.46 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.088 U*	*9.2 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*1.6 U*	1.9	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.6 U*
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Biphenyl	December 2022	0.34 J	3.8 J	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	0.47 J	*15 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	0.97 J	7.5	1 J	*7.5 U*	*3.3 U*	31.3	27	0.27 J	*3 U*	*3 U*	0.65 J	*3.1 U*	0.42 J	0.54 J	1.2 J
	April 2024	0.93 J	14.7	*3 U*	*3 U*	*3 U*	*3 U*	13.5	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*	0.86 J	*3 U*	*3 U*
	August 2024	0.85 J	12.6	2.4 J	*12 U*	*12 U*	37.2	28.3	*12 U*	*12 U*	*3 U*	1.6 J	*3 U*	0.94 J	0.65 J	1.1 J
	December 2024	0.98 J	12.8	1.7 J	*3 U*	*3 U*	30.6	23.2	*3 U*	*3 U*	*3 U*	1.5 J	*3 U*	0.45 J	0.9 J	*3 U*
Chrysene	December 2022	*0.081 U*	*0.42 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.081 U*	*8.4 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*1.6 U*	2.6	0.46 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.6 U*
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	0.51 J	0.35 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Dibenzo(a,h)anthracene	December 2022	*0.072 U*	*0.38 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.072 U*	*7.5 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*1.6 U*	0.36 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.6 U*
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-11S	MW-11D	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19S	MW-19D	MW-20	MW-21	MW-22S	MW-22D
Semi-Volatile Organic Compounds (µg/L)																
Fluoranthene	December 2022	*0.06 U*	*0.31 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	0.067 J	*6.3 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.5 U*	0.26 J	1.5	*3.8 U*	*1.6 U*	15.1	10	0.67 J	*1.5 U*	0.38 J	0.32 J	2	*1.5 U*	0.3 J	0.5 J
	April 2024	*1.5 U*	0.47 J	0.56 J	*1.5 U*	*1.5 U*	10.5	12.1	0.41 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	August 2024	*1.5 U*	*6 U*	1.7 J	*6 U*	*6 U*	15.2	16.6	*6 U*	*6 U*	*1.5 U*	0.41 J	*1.5 U*	*1.5 U*	*1.5 U*	0.25 J
	December 2024	*1.5 U*	0.49 J	1.8	*1.5 U*	*1.5 U*	12.6	9.1	0.38 J	*1.5 U*	*1.5 U*	0.57 J	*1.5 U*	*1.5 U*	*1.5 U*	0.41 J
Fluorene	December 2022	0.31	6.7	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	0.35	*7.2 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	0.76 J	14.4	4.3	*3.8 U*	*1.6 U*	77.2	109	1.6	*1.5 U*	0.31 J	1.8	3	0.41 J	0.35 J	0.96 J
	April 2024	0.66 J	31.3	1.6	2.4	*1.5 U*	85.7	76.8	*1.5 U*	*1.5 U*	*1.5 U*	3.2	*1.5 U*	0.69 J	0.33 J	0.54 J
	August 2024	0.72 J	24.7	4.7 J	4.1 J	*6 U*	116	124	*6 U*	*6 U*	*1.5 U*	6.3	0.27 J	0.88 J	0.59 J	0.93 J
	December 2024	0.86 J	25.7	2.9	0.67 J	*1.5 U*	89.7	92.2	0.86 J	*1.5 U*	*1.5 U*	6	*1.5 U*	0.37 J	0.87 J	*1.5 U*
Indeno(1,2,3-cd)pyrene	December 2022	*0.085 U*	*0.44 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.085 U*	*8.9 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*1.6 U*	1.4 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.6 U*	*1.6 U*
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Naphthalene	December 2022	11	440 E	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	22	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	138	1,740	8.4	78.7	*1.6 U*	8,120	5,560	15.1	2.4	5.1	82.3	0.26 J	52.4	617	295
	April 2024	*1.5 U*	2,440	63.9	69.2	0.89 J	5,100	2,880	1.4 J	0.92 J	*1.5 U*	27.6	*1.5 U*	204	1,660	164
	August 2024	1.8	2,660	2,100	72	3.3 J	7,140	6,810	*6 U*	*6 U*	0.82 J	153	*1.5 U*	464	*1.5 U*	258
	December 2024	106	2,910	439	57.1	2.2	4,430	3,620 E	5.8	*1.5 U*	*1.5 U*	62.3	*1.5 U*	46.2	411	2.2
Phenanthrene	December 2022	0.11 J	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	0.25	*5.7 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	0.31 J	5.2	6.6	1.6 J	0.38 J	77.7	85.9	2.9	0.59 J	0.42 J	0.79 J	*1.5 U*	*1.5 U*	0.47 J	0.97 J
	April 2024	0.3 J	12.7	0.53 J	0.71 J	*1.5 U*	77.3	69.6	0.54 J	*1.5 U*	*1.5 U*	2.4	*1.5 U*	0.29 J	0.3 J	0.49 J
	August 2024	0.28 J	10	10.5	1.5 J	*6 U*	117	111	*6 U*	*6 U*	*1.5 U*	5.1	*1.5 U*	0.31 J	0.31 J	0.61 J
	December 2024	0.35 J	10.2	3.5	0.59 J	0.29 J	83.2	65.6	0.51 J	*1.5 U*	*1.5 U*	5.5	*1.5 U*	*1.5 U*	0.67 J	0.54 J
Pyrene	December 2022	*0.054 U*	*0.28 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	*0.054 U*	*5.6 U*	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.5 U*	*1.5 U*	0.99 J	*3.8 U*	*1.6 U*	11.1	6.3	0.43 J	*1.5 U*	0.28 J	*1.5 U*	1.3 J	*1.5 U*	*1.6 U*	0.31 J
	April 2024	*1.5 U*	*1.5 U*	0.5 J	*1.5 U*	*1.5 U*	7.5	7.3	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	August 2024	*1.5 U*	*6 U*	1.1 J	*6 U*	*6 U*	10.9	11.8	*6 U*	*6 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
	December 2024	*1.5 U*	*1.5 U*	0.98 J	*1.5 U*	*1.5 U*	9	5.8	0.25 J	*1.5 U*	*1.5 U*	0.28 J	*1.5 U*	*1.5 U*	*1.5 U*	0.28 J

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-23	MW-24	MW-25	MW-26S	MW-26D	MW-27S	MW-27D	MW-28	MW-29	MW-30	MW-31	MW-32	MW-33	MW-34S	MW-34D
Volatile Organic Comounds (µg/L)																
Benzene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	93.3	152	*1 U*	13,000	4,860	3,970	11,500	*1 U*	15,300	19.5	33,600	*1 U*	*1 U*	7,300	7,140
	April 2024	118	88.9	*1 U*	14,000	5,280	1,520	9,390	*1 U*	16,600	15	29,400	*1 U*	*1 U*	5,790	3,540
	August 2024	453	53.4	1.1	14,100	2,550	390	12,200	*1 U*	24,100	179	24,100	*1 U*	0.55 J	4,930	4,550
	December 2024	21.6	43.4	*1 U*	14,400	4,060	1,640	5,090	2.8	13,400	*1 U*	19,100	*1 U*	*1 U*	3,370	3,810
Bromomethane	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*50 U*	*1 U*	*50 U*	*1 U*	*1 U*	*50 U*	*50 U*
	April 2024	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1,000 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
	August 2024	*1 U*	0.52 J	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1,000 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
	December 2024	*5 U*	*1 U*	*1 U*	*50 U*	*50 U*	19.8 J	*100 U*	*1 U*	*500 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
Chlorobenzene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	11.1 J	*1 U*	*50 U*	*1 U*	*1 U*	*50 U*	*50 U*
	April 2024	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1,000 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
	August 2024	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1,000 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
	December 2024	*5 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*100 U*	*1 U*	*500 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
Chloroethane	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*50 U*	*1 U*	*50 U*	*1 U*	*1 U*	*50 U*	*50 U*
	April 2024	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1,000 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	633
	August 2024	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1,000 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
	December 2024	*5 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*100 U*	*1 U*	*500 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
Chloromethane	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1 U*	2.5 J	0.41 J	20.7 J	*50 U*	*50 U*	*50 U*	*1 U*	17.1 J	0.35 J	*50 U*	0.36 J	*1 U*	*50 U*	*50 U*
	April 2024	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1,000 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
	August 2024	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1,000 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
	December 2024	*5 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*100 U*	*1 U*	*500 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
Dichlorodifluoromethane	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*50 U*	*1 U*	*50 U*	*1 U*	*1 U*	*50 U*	*50 U*
	April 2024	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1,000 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
	August 2024	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1,000 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
	December 2024	*5 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*100 U*	*1 U*	*500 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
Ethylbenzene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1 U*	*5 U*	*1 U*	990	770	21.8 J	119	*1 U*	2,240	0.49 J	155	*1 U*	*1 U*	71.5	109
	April 2024	*1 U*	0.81 J	*1 U*	932	824	*50 U*	99	*1 U*	1,710	*1 U*	*500 U*	*1 U*	*1 U*	83.2	91.1
	August 2024	0.96 J	0.81 J	*1 U*	850	400	*50 U*	127	*1 U*	*1,000 U*	5.9	*500 U*	*1 U*	*1 U*	63.6	92.7
	December 2024	*5 U*	0.57 J	*1 U*	1,040	587	17.3 J	53.5 J	*1 U*	*500 U*	*1 U*	*500 U*	*1 U*	*1 U*	165	104
Isopropylbenzene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1 U*	*5 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*50 U*	*1 U*	*50 U*	*1 U*	*1 U*	*50 U*	*50 U*
	April 2024	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1,000 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
	August 2024	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1,000 U*	*1 U*	*500 U*	*1 U*	*1 U*	*50 U*	*50 U*
	December 2024	*5 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*100 U*	*1 U*	*500 U*	*1 U*	*500 U*	*1 U*	*1 U*	16 J	*50 U*

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-23	MW-24	MW-25	MW-26S	MW-26D	MW-27S	MW-27D	MW-28	MW-29	MW-30	MW-31	MW-32	MW-33	MW-34S	MW-34D
Volatile Organic Comounds (µg/L)																
m&p-Xylene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*2 U*	3.4 J	*2 U*	826	549	270	690	*2 U*	32,600	1.5 J	1,060	*2 U*	*2 U*	386	551
	April 2024	*2 U*	2 J	*2 U*	789	591	202	505	*2 U*	27,100	0.71 J	1,330	*2 U*	*2 U*	402	439
	August 2024	0.58 J	0.92 J	*2 U*	684	301	80 J	682	*2 U*	37,900	19.8	796 J	*2 U*	*2 U*	221	400
	December 2024	*10 U*	*2 U*	*2 U*	894	483	162	358	*2 U*	32,900	*2 U*	996 J	*2 U*	*2 U*	563	405
o-Xylene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1 U*	*5 U*	*1 U*	427	299	132	352	*1 U*	10,400	0.72 J	534	*1 U*	*1 U*	217	237
	April 2024	*1 U*	0.94 J	*1 U*	394	304	106	262	*1 U*	8,520	0.49 J	551	*1 U*	*1 U*	248	208
	August 2024	*1 U*	0.79 J	*1 U*	347	167	49.1 J	328	*1 U*	11,500	14.6	467 J	*1 U*	*1 U*	171	207
	December 2024	*5 U*	*1 U*	*1 U*	452	267	74.6	245	*1 U*	9,600	*1 U*	547	*1 U*	*1 U*	328	239
Styrene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1 U*	*5 U*	*1 U*	21 J	18 J	*50 U*	81.5	*1 U*	398	0.38 J	67.1	*1 U*	*1 U*	38.2 J	159
	April 2024	*1 U*	0.24 J	*1 U*	*50 U*	*50 U*	*50 U*	26.7 J	*1 U*	335 J	*1 U*	*500 U*	*1 U*	*1 U*	24.4 J	77.5
	August 2024	*1 U*	0.53 J	*1 U*	*50 U*	*50 U*	*50 U*	59.5	*1 U*	505 J	1.1	184 J	*1 U*	*1 U*	*50 U*	58.4
	December 2024	*5 U*	*1 U*	*1 U*	19.7 J	16.6 J	23.8 J	56.5 J	*1 U*	369 J	*1 U*	*500 U*	*1 U*	*1 U*	31.5 J	63.4
Toluene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1 U*	11.9	*1 U*	1,230	497	419	1,740	*1 U*	26,100	1.3	3,200	*1 U*	*1 U*	1,010	1,170
	April 2024	*1 U*	1.2	*1 U*	1,240	491	294	1,210	*1 U*	23,600	0.49 J	3,230	*1 U*	*1 U*	725	578
	August 2024	*1 U*	1.1	*1 U*	1,040	214	158	1,740	*1 U*	32,200	2.8	2,810	*1 U*	*1 U*	303	572
	December 2024	*5 U*	*1 U*	*1 U*	1,190	340	221	496	*1 U*	25,300	*1 U*	2,740	*1 U*	*1 U*	431	648
Total Xylenes	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*3 U*	3.4 J	*3 U*	1,250	848	401	1,040	*3 U*	43,000	2.2 J	1,590	*3 U*	*3 U*	603	788
	April 2024	*3 U*	2.9 J	*3 U*	1,180	895	308	766	*3 U*	35,700	1.2 J	1,880	*3 U*	*3 U*	650	647
	August 2024	*3 U*	1.7 J	*3 U*	1,030	469	129 J	1,010	*3 U*	49,400	34.4	1,260 J	*3 U*	*3 U*	392	607
	December 2024	*15 U*	*3 U*	*3 U*	1,350	750	236	603	*3 U*	42,500	*3 U*	1,540	*3 U*	*3 U*	891	643
Semi-Volatile Organic Compounds (µg/L)																
Acenaphthene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	0.28 J	*3.8 U*	9	19.9	7.4	11.9	0.35 J	*3.8 U*	*1.5 U*	1.2 J	*1.5 U*	*1.5 U*	6	14.9
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	9.6	7.9	7.6	9.9	*1.5 U*	*2.5 U*	*1.5 U*	1.2 J	*1.5 U*	*1.5 U*	8.1 J	10.1 J
	August 2024	*1.5 U*	*6 U*	*6 U*	4.7 J	12.6	5 J	12.7	2.4 J	*6 U*	0.29 J	1.1 J	*1.5 U*	*1.5 U*	8.5	11.7
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	12.4	8.5	4.3	14.8	2.1	*1.5 U*	*1.5 U*	1.5 J	*1.5 U*	*1.5 U*	7	11.3
Acenaphthylene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	31.8	116	136	150	*1.6 U*	2.2 J	1.1 J	2.6	*1.5 U*	*1.5 U*	32	303
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	16.2	3.3 J	91.5	135	*1.5 U*	1.9 J	0.75 J	1.9	*1.5 U*	*1.5 U*	38.9	124
	August 2024	*1.5 U*	*6 U*	*6 U*	6.2	2.9 J	34.9	123	*6 U*	2 J	1.2 J	1.5 J	*1.5 U*	*1.5 U*	45.9	262
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	14	2.2 J	50.1	200	*1.5 U*	1.1 J	*1.5 U*	3	*1.5 U*	*1.5 U*	14.3	85.6
Anthracene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	15.2	82.2	21.5	19.2	*1.6 U*	*3.8 U*	0.59 J	0.58 J	*1.5 U*	*1.5 U*	3.6	70.7
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	18.1	15.5	22.1	18.7	*1.5 U*	*2.5 U*	*1.5 U*	0.54 J	*1.5 U*	*1.5 U*	6.2 J	24
	August 2024	*1.5 U*	*6 U*	*6 U*	7.9	23.4	17	20.8	*6 U*	*6 U*	1 J	*6 U*	*1.5 U*	*1.5 U*	6.8	25.3
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	19.4	16.6	12.1	23.6	*1.5 U*	*1.5 U*	*1.5 U*	0.32 J	*1.5 U*	*1.5 U*	3.8	22.6

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-23	MW-24	MW-25	MW-26S	MW-26D	MW-27S	MW-27D	MW-28	MW-29	MW-30	MW-31	MW-32	MW-33	MW-34S	MW-34D
Semi-Volatile Organic Compounds (µg/L)																
Benzo(a)anthracene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	0.76 J	59.9	4	*3.8 U*	*1.6 U*	*3.8 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	40.4
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*	1.5 J	1.9	*1.5 U*	*2.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*15 U*	*15 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	4.7 J	*6 U*	*6 U*	*6 U*	*1.5 U*	*6 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*	1.5 J	0.83 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*
Benzo(a)pyrene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	0.61 J	52.8	3.1	*3.8 U*	*1.6 U*	*3.8 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	34.4
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*	0.82 J	1.4 J	*1.5 U*	*2.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*15 U*	*15 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	2.4 J	*6 U*	*6 U*	*6 U*	*1.5 U*	*6 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*	0.87 J	0.26 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*
Benzo(b)fluoranthene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	*1.5 U*	41.5	2.5	*3.8 U*	*1.6 U*	*3.8 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	27.7
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*	0.82 J	1.1 J	*1.5 U*	*2.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*15 U*	*15 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	2.9 J	*6 U*	*6 U*	*6 U*	*1.5 U*	*6 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*	0.9 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*
Benzo(g,h,i)perylene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	0.34 J	26.7	1.9	*3.8 U*	*1.6 U*	*3.8 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	17
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*	*2.5 U*	0.75 J	*1.5 U*	*2.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*15 U*	*15 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6.9 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	*6 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*	*1.7 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*
Benzo(k)fluoranthene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	0.6 J	41.8	2.8	*3.8 U*	*1.6 U*	*3.8 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	27.1
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*	*2.5 U*	1.1 J	*1.5 U*	*2.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*15 U*	*15 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	2.6 J	*6 U*	*6 U*	*6 U*	*1.5 U*	*6 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*	0.78 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*
Biphenyl	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*3.2 U*	*3 U*	*7.5 U*	29.8	54.1	9.2	34.8	*3.2 U*	0.74 J	*3.1 U*	4.7	*3 U*	*3 U*	12.6	59.7
	April 2024	*3 U*	*3 U*	*3 U*	32.9	29.8	7.6	29	*3 U*	0.6 J	*3 U*	5.3	*3 U*	*3 U*	19.5 J	44
	August 2024	*3 U*	*12 U*	*12 U*	17	46	2.3 J	26.3	*12 U*	*12 U*	0.3 J	5.1 J	*3 U*	*3 U*	21.1	49.9
	December 2024	*3 U*	*3 U*	*3 U*	42.9	29.9	6.1	40.1	*3 U*	0.46 J	*3 U*	8.2	*3 U*	*3 U*	17.4	53.1
Chrysene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	0.86 J	54.7	3.8	*3.8 U*	*1.6 U*	*3.8 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	34.7
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*	1.7 J	1.8	*1.5 U*	*2.5 U*	*1.5 U*	0.42 J	*1.5 U*	*1.5 U*	*15 U*	*15 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	4.7 J	*6 U*	*6 U*	*6 U*	*1.5 U*	*6 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*	1.4 J	0.71 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*
Dibenzo(a,h)anthracene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	*1.5 U*	7.4	0.52 J	*3.8 U*	*1.6 U*	*3.8 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	4.7
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*	*2.5 U*	*1.5 U*	*1.5 U*	*2.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*15 U*	*15 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6.9 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	*6 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*	*1.7 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-23	MW-24	MW-25	MW-26S	MW-26D	MW-27S	MW-27D	MW-28	MW-29	MW-30	MW-31	MW-32	MW-33	MW-34S	MW-34D
Semi-Volatile Organic Compounds (µg/L)																
Fluoranthene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	0.32 J	*3.8 U*	6.9	173	17.1	8.4	*1.6 U*	*3.8 U*	0.73 J	*1.5 U*	*1.5 U*	0.31 J	1.3 J	130
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	10	7.5	16.9	11.2	*1.5 U*	*2.5 U*	0.82 J	0.34 J	*1.5 U*	*1.5 U*	3.9 J	11.6 J
	August 2024	*1.5 U*	*6 U*	*6 U*	4.8 J	10.4	22.3	8.8	*6 U*	*6 U*	1.3 J	*6 U*	*1.5 U*	*1.5 U*	3 J	10.4
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	11.8	8.4	12.1	10.8	*1.5 U*	*1.5 U*	*1.5 U*	0.45 J	*1.5 U*	*1.5 U*	2.7 J	13.5
Fluorene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	66.9	194	72.1	83.5	*1.6 U*	*3.8 U*	1.4 J	3.8	*1.5 U*	*1.5 U*	22.2	173
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	77.9	69.1	68.8	76.6	*1.5 U*	8.4	*1.5 U*	5.1	*1.5 U*	*1.5 U*	37.4	98
	August 2024	*1.5 U*	*6 U*	*6 U*	37.2	110	43.8	84.2	*6 U*	10	2.7	4.5 J	*1.5 U*	*1.5 U*	37	101
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	97.9	79.4	35.8	103	*1.5 U*	*1.5 U*	*1.5 U*	6.6	*1.5 U*	*1.5 U*	30.8	123
Indeno(1,2,3-cd)pyrene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	0.37 J	28.9	1.9	*3.8 U*	*1.6 U*	*3.8 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	20
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*	*2.5 U*	0.77 J	*1.5 U*	*2.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*15 U*	*15 U*
	August 2024	*1.5 U*	*6 U*	*6 U*	*6 U*	*6 U*	*6.9 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	*6 U*	*1.5 U*	*1.5 U*	*6 U*	*6 U*
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*	0.48 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*3.8 U*	*3.8 U*
Naphthalene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	2.2	28.6	1.2 J	11,800	12,400	2,690	12,900	*1.6 U*	788	3.6	2,870	0.4 J	1.1 J	3,100	14,300
	April 2024	0.75 J	0.82 J	*1.5 U*	12,400	9,270	374	9,190	0.88 J	776	*1.5 U*	2,960	*1.5 U*	0.32 J	5,730	8,770
	August 2024	3.7	*6 U*	*6 U*	5,020	10,600	40	10,700	2.7 J	1,020	*1.5 U*	2,820	0.72 J	1.4 J	5,580	10,200
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	12,900	7,310	1,600	12,500	1.5	742	*1.5 U*	3,800	0.7 J	*1.5 U*	3,550	9,800
Phenanthrene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	0.58 J	0.37 J	*3.8 U*	58.1	360	67.8	73.1	*1.6 U*	*3.8 U*	1.5 J	2.4	*1.5 U*	*1.5 U*	19.1	284
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	76.6	63.5	43.8	72.2	0.32 J	*2.5 U*	*1.5 U*	3	*1.5 U*	*1.5 U*	39.8	95.1
	August 2024	*1.5 U*	*6 U*	*6 U*	37.6	99.4	33	76.9	*6 U*	*6 U*	2.7	2.4 J	*1.5 U*	*1.5 U*	38.9	98.8
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	97.2	70.5	31.2	87.3	*1.5 U*	*1.5 U*	*1.5 U*	3.9	*1.5 U*	*1.5 U*	29.6	114
Pyrene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	4.6	138	12.4	5.6	*1.6 U*	*3.8 U*	0.48 J	*1.5 U*	*1.5 U*	*1.5 U*	0.74 J	100
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	5.4 J	4.1 J	11.2	7.2	*1.5 U*	*2.5 U*	0.55 J	*1.5 U*	*1.5 U*	*1.5 U*	*15 U*	6.8 J
	August 2024	*1.5 U*	*6 U*	*6 U*	2.6 J	6.6	15.2	5.4 J	*6 U*	*6 U*	0.73 J	*6 U*	*1.5 U*	*1.5 U*	1.4 J	5.9 J
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	6.5	4.7	7.8	6.7	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	1.5 J	7.9

TABLE 9

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SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-35S	MW-35D	MW-36S	MW-36D	MW-37	MW-38D	MW-39	MW-40	MW-41	MW-42	MW-43	MW-44	MW-45
Volatile Organic Comounds (µg/L)														
Benzene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	4.2	7,740	18,000	*1 U*	19.1	-	-	-	-	-	-	-
	April 2024	*5 U*	*1 U*	1,090	1,350	38.5	0.32 J	-	-	-	-	-	-	-
	August 2024	*5 U*	*1 U*	6,520	11,800	*1 U*	27.3	-	-	-	-	-	-	-
	December 2024	3.1	*1 U*	7,910	6,260	*1 U*	*1 U*	9.5	1,510	27,100	*50 U*	*1 U*	*1 U*	27,600
Bromomethane	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	2 J	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	April 2024	*5 U*	*1 U*	*50 U*	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	August 2024	*5 U*	*1 U*	*50 U*	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	December 2024	0.53 J	*1 U*	*500 U*	*500 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1 U*	*50 U*
Chlorobenzene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*1 U*	*50 U*	14 J	*1 U*	*1 U*	-	-	-	-	-	-	-
	April 2024	*5 U*	*1 U*	*50 U*	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	August 2024	*5 U*	*1 U*	*50 U*	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	December 2024	*1 U*	*1 U*	*500 U*	*500 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1 U*	*50 U*
Chloroethane	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	April 2024	*5 U*	*1 U*	*50 U*	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	August 2024	*5 U*	*1 U*	*50 U*	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	December 2024	*1 U*	*1 U*	*500 U*	*500 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1 U*	*50 U*
Chloromethane	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	0.33 J	16.3 J	18.1 J	*1 U*	*1 U*	-	-	-	-	-	-	-
	April 2024	*5 U*	*1 U*	*50 U*	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	August 2024	*5 U*	*1 U*	*50 U*	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	December 2024	*1 U*	*1 U*	*500 U*	*500 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1 U*	17.2 J
Dichlorodifluoromethane	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	April 2024	*5 U*	*1 U*	*50 U*	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	August 2024	*5 U*	*1 U*	*50 U*	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	December 2024	*1 U*	*1 U*	*500 U*	*500 U*	*1 U*	*1 U*	*1 U*	*50 U*	*50 U*	*50 U*	*1 U*	*1 U*	*50 U*
Ethylbenzene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*1 U*	218	*50 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	April 2024	*5 U*	*1 U*	*50 U*	*250 U*	0.55 J	*1 U*	-	-	-	-	-	-	-
	August 2024	*5 U*	*1 U*	167	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	December 2024	*1 U*	*1 U*	219 J	*500 U*	*1 U*	*1 U*	*1 U*	*50 U*	230	*50 U*	*1 U*	*1 U*	27.3 J
Isopropylbenzene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*1 U*	*50 U*	*50 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	April 2024	*5 U*	*1 U*	*50 U*	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	August 2024	*5 U*	*1 U*	*50 U*	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	December 2024	*1 U*	*1 U*	*500 U*	*500 U*	*1 U*	*1 U*	*1 U*	*50 U*	12.8 J	*50 U*	*1 U*	*1 U*	*50 U*

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-35S	MW-35D	MW-36S	MW-36D	MW-37	MW-38D	MW-39	MW-40	MW-41	MW-42	MW-43	MW-44	MW-45
Volatile Organic Comounds (µg/L)														
m&p-Xylene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*10 U*	0.61 J	1,880	1,650	*2 U*	*2 U*	-	-	-	-	-	-	-
	April 2024	*10 U*	*2 U*	284	*500 U*	3	*2 U*	-	-	-	-	-	-	-
	August 2024	*10 U*	*2 U*	1,420	1,350	*2 U*	*2 U*	-	-	-	-	-	-	-
	December 2024	*2 U*	*2 U*	1,950	1,690	*2 U*	*2 U*	*2 U*	41.8 J	118	*100 U*	*2 U*	*2 U*	413
o-Xylene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	*1 U*	527	462	*1 U*	0.41 J	-	-	-	-	-	-	-
	April 2024	*5 U*	*1 U*	77.6	217 J	1.1	*1 U*	-	-	-	-	-	-	-
	August 2024	*5 U*	*1 U*	403	395	*1 U*	*1 U*	-	-	-	-	-	-	-
	December 2024	0.99 J	*1 U*	551	504	*1 U*	*1 U*	0.54 J	19.1 J	97.1	*50 U*	*1 U*	*1 U*	180
Styrene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	0.46 J	177	377	*1 U*	*1 U*	-	-	-	-	-	-	-
	April 2024	*5 U*	*1 U*	14.2 J	*250 U*	*1 U*	*1 U*	-	-	-	-	-	-	-
	August 2024	*5 U*	*1 U*	85.7	158 J	*1 U*	*1 U*	-	-	-	-	-	-	-
	December 2024	*1 U*	*1 U*	209 J	188 J	*1 U*	*1 U*	*1 U*	13.4 J	*50 U*	*50 U*	*1 U*	*1 U*	*50 U*
Toluene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*5 U*	1.3	1,450	5,540	*1 U*	*1 U*	-	-	-	-	-	-	-
	April 2024	*5 U*	*1 U*	427	*250 U*	1.8	*1 U*	-	-	-	-	-	-	-
	August 2024	*5 U*	*1 U*	1,220	3,220	*1 U*	*1 U*	-	-	-	-	-	-	-
	December 2024	*1 U*	*1 U*	1,430	2,260	*1 U*	*1 U*	0.26 J	95.6	152	*50 U*	*1 U*	*1 U*	2,510
Total Xylenes	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*15 U*	*3 U*	2,410	2,110	*3 U*	*3 U*	-	-	-	-	-	-	-
	April 2024	*15 U*	*3 U*	361	217 J	4.1	*3 U*	-	-	-	-	-	-	-
	August 2024	*15 U*	*3 U*	1,820	1,750	*3 U*	*3 U*	-	-	-	-	-	-	-
	December 2024	0.99 J	*3 U*	2,500	2,200	*3 U*	*3 U*	*3 U*	60.9 J	215	*150 U*	*3 U*	*3 U*	593
Semi-Volatile Organic Compounds (µg/L)														
Acenaphthene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	6.1	*1.5 U*	13.2	11.6	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	*1.5 U*	*1.5 U*	11.4	11.2	723	*1.5 U*	-	-	-	-	-	-	-
	August 2024	1.3 J	*6 U*	12.7	12.8	1.3 J	*1.5 U*	-	-	-	-	-	-	-
	December 2024	*1.5 U*	*1.5 U*	15.2	12.6	0.64 J	*1.5 U*	3.1	41.4	159	*1.5 U*	*1.5 U*	5.1	0.59 J
Acenaphthylene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	5.5	*1.5 U*	425	374	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	0.62 J	0.25 J	597	427	11.1	*1.5 U*	-	-	-	-	-	-	-
	August 2024	1.5 J	*6 U*	400	423	*6 U*	*1.5 U*	-	-	-	-	-	-	-
	December 2024	1.5	0.77 J	417	409	*1.5 U*	*1.5 U*	0.94 J	83.3	6.6	0.32 J	*1.5 U*	0.33 J	*1.5 U*
Anthracene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	13.5	*1.5 U*	20.6	21.7	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	*1.5 U*	*1.5 U*	17.1	18	41.5	*1.5 U*	-	-	-	-	-	-	-
	August 2024	1.6 J	*6 U*	19.1	22.8	*6 U*	*1.5 U*	-	-	-	-	-	-	-
	December 2024	0.67 J	0.55 J	23	18.2	*1.5 U*	*1.5 U*	0.62 J	12.2	6.3	*1.5 U*	*1.5 U*	0.52 J	*1.5 U*

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-35S	MW-35D	MW-36S	MW-36D	MW-37	MW-38D	MW-39	MW-40	MW-41	MW-42	MW-43	MW-44	MW-45
Semi-Volatile Organic Compounds (µg/L)														
Benzo(a)anthracene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	0.66 J	*1.5 U*	0.78 J	4.6	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	*1.5 U*	*1.5 U*	0.69 J	*6 U*	3.5 J	*1.5 U*	-	-	-	-	-	-	-
	August 2024	*6 U*	*6 U*	*6 U*	4.2 J	*6 U*	*1.5 U*	-	-	-	-	-	-	-
	December 2024	*1.5 U*	*1.5 U*	2.2	1.2 J	*1.5 U*	*1.5 U*	*1.5 U*	0.72 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Benzo(a)pyrene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	3	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*7.5 U*	*1.5 U*	-	-	-	-	-	-	-
	August 2024	*6 U*	*6 U*	*6 U*	2 J	*6 U*	*1.5 U*	-	-	-	-	-	-	-
	December 2024	*1.5 U*	*1.5 U*	0.94 J	0.4 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Benzo(b)fluoranthene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	2.7	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	*1.5 U*	*1.5 U*	0.27 J	*6 U*	*7.5 U*	*1.5 U*	-	-	-	-	-	-	-
	August 2024	*6 U*	*6 U*	*6 U*	1.7 J	*6 U*	*1.5 U*	-	-	-	-	-	-	-
	December 2024	*1.5 U*	*1.5 U*	0.91 J	0.45 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Benzo(g,h,i)perylene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	1.5 J	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*7.5 U*	*1.5 U*	-	-	-	-	-	-	-
	August 2024	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	-	-	-	-	-	-	-
	December 2024	*1.5 U*	*1.5 U*	0.41 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Benzo(k)fluoranthene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	2.8	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	*1.5 U*	*1.5 U*	0.27 J	*6 U*	*7.5 U*	*1.5 U*	-	-	-	-	-	-	-
	August 2024	*6 U*	*6 U*	*6 U*	1.7 J	*6 U*	*1.5 U*	-	-	-	-	-	-	-
	December 2024	*1.5 U*	*1.5 U*	0.94 J	0.37 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Biphenyl	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	5.6	*3.1 U*	54.4	49.4	*3.1 U*	*3.1 U*	-	-	-	-	-	-	-
	April 2024	*3 U*	*3 U*	51.1	54.2	6.4 J	*3 U*	-	-	-	-	-	-	-
	August 2024	*12 U*	*12 U*	54.9	57.9	*12 U*	*3 U*	-	-	-	-	-	-	-
	December 2024	*3 U*	*3 U*	64.8	61.4	*3 U*	*3 U*	*3 U*	11.6	20.6	*3 U*	*3 U*	*3 U*	*3 U*
Chrysene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	0.5 J	*1.5 U*	*3.8 U*	4.4	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	*1.5 U*	*1.5 U*	0.77 J	*6 U*	3.3 J	*1.5 U*	-	-	-	-	-	-	-
	August 2024	*6 U*	*6 U*	*6 U*	3.9 J	*6 U*	*1.5 U*	-	-	-	-	-	-	-
	December 2024	*1.5 U*	*1.5 U*	1.8	0.86 J	*1.5 U*	*1.5 U*	*1.5 U*	0.37 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Dibenzo(a,h)anthracene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	0.61 J	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*7.5 U*	*1.5 U*	-	-	-	-	-	-	-
	August 2024	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	-	-	-	-	-	-	-
	December 2024	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*

TABLE 9

SUMMARY OF HISTORICAL SELECT VOCs AND SVOCs IN GROUNDWATER
SUPPLEMENTAL SITE INVESTIGATION
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

Parameter	Sample Event	MW-35S	MW-35D	MW-36S	MW-36D	MW-37	MW-38D	MW-39	MW-40	MW-41	MW-42	MW-43	MW-44	MW-45
Semi-Volatile Organic Compounds (µg/L)														
Fluoranthene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	14.5	0.41 J	11.3	17.4	*1.5 U*	0.56 J	-	-	-	-	-	-	-
	April 2024	*1.5 U*	2.5	10.8	12.1	55.6	*1.5 U*	-	-	-	-	-	-	-
	August 2024	1.9 J	*6 U*	10.9	22.8	*6 U*	0.49 J	-	-	-	-	-	-	-
	December 2024	0.25 J	*1.5 U*	17.2	12.7	0.55 J	*1.5 U*	0.54 J	15.6	7.4	*1.5 U*	*1.5 U*	0.87 J	*1.5 U*
Fluorene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	57.3	0.6 J	118	109	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	*1.5 U*	*1.5 U*	110	117	510	*1.5 U*	-	-	-	-	-	-	-
	August 2024	8.2	*6 U*	113	119	2.4 J	*1.5 U*	-	-	-	-	-	-	-
	December 2024	*1.5 U*	*1.5 U*	136	143	0.52 J	*1.5 U*	3.4	71.1	59.5	*1.5 U*	*1.5 U*	2.2	0.71 J
Indeno(1,2,3-cd)pyrene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	*1.6 U*	*1.5 U*	*3.8 U*	1.7	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	*1.5 U*	*1.5 U*	*1.5 U*	*6 U*	*7.5 U*	*1.5 U*	-	-	-	-	-	-	-
	August 2024	*6 U*	*6 U*	*6 U*	*6 U*	*6 U*	*1.5 U*	-	-	-	-	-	-	-
	December 2024	*1.5 U*	*1.5 U*	0.48 J	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*	*1.5 U*
Naphthalene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	2.6	9.5	13,600	12,800	*1.5 U*	1.4 J	-	-	-	-	-	-	-
	April 2024	*1.5 U*	1.2 J	42,400	10,700	562	*1.5 U*	-	-	-	-	-	-	-
	August 2024	*6 U*	*6 U*	11,300	11,200	6.6	0.71 J	-	-	-	-	-	-	-
	December 2024	1.1 J	2.8	8,780	11,200	1.1 J	*1.5 U*	7.6	2,120	11,300 E	7.7	0.75 J	2.5	10.4
Phenanthrene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	61.9	1.3 J	97.1	91.8	*1.5 U*	*1.5 U*	-	-	-	-	-	-	-
	April 2024	*1.5 U*	*1.5 U*	87.7	91.9	448	*1.5 U*	-	-	-	-	-	-	-
	August 2024	1.9 J	*6 U*	96.2	115	*6 U*	*1.5 U*	-	-	-	-	-	-	-
	December 2024	*1.5 U*	*1.5 U*	116	99.7	0.39 J	*1.5 U*	4.2	95.9	64.2	*1.5 U*	*1.5 U*	3.1	0.82 J
Pyrene	December 2022	-	-	-	-	-	-	-	-	-	-	-	-	-
	March 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
	January 2024	9.4	0.31 J	6.9	12	*1.5 U*	0.31 J	-	-	-	-	-	-	-
	April 2024	*1.5 U*	1.1 J	6.2	6.4	32.4	*1.5 U*	-	-	-	-	-	-	-
	August 2024	1.1 J	*6 U*	5.9 J	14.5	*6 U*	0.28 J	-	-	-	-	-	-	-
	December 2024	*1.5 U*	*1.5 U*	9.3	7.3	0.46 J	*1.5 U*	0.3 J	9.3	4.1	*1.5 U*	*1.5 U*	0.54 J	*1.5 U*

Notes/Qualifiers:

- Analysis not available/not performed; well not installed
^c - CCV recovery is outside acceptance limits
µg/L - microgram per liter
CCV - Continuing Calibration Verification
E - result exceeded calibration range
H - sample was prepped or analyzed beyond specified holding times
J - result is less than the RL but greater than or equal to the MDL; estimated
MDL - Method Detection Limit
RL - Reporting Limit
SVOC - Semi-Volatile Organic Compound
U - Not Detected
VOC - Volatile Organic Compound

Italics - Chemical is not detected
Shaded - Decreasing Trend
Shaded - Increasing Trend

Trends consist of three consecutive concentrations, at a minimum, with extrapolated concentrations where elevated detection limits are believed to mask the actual concentration.

FIGURES

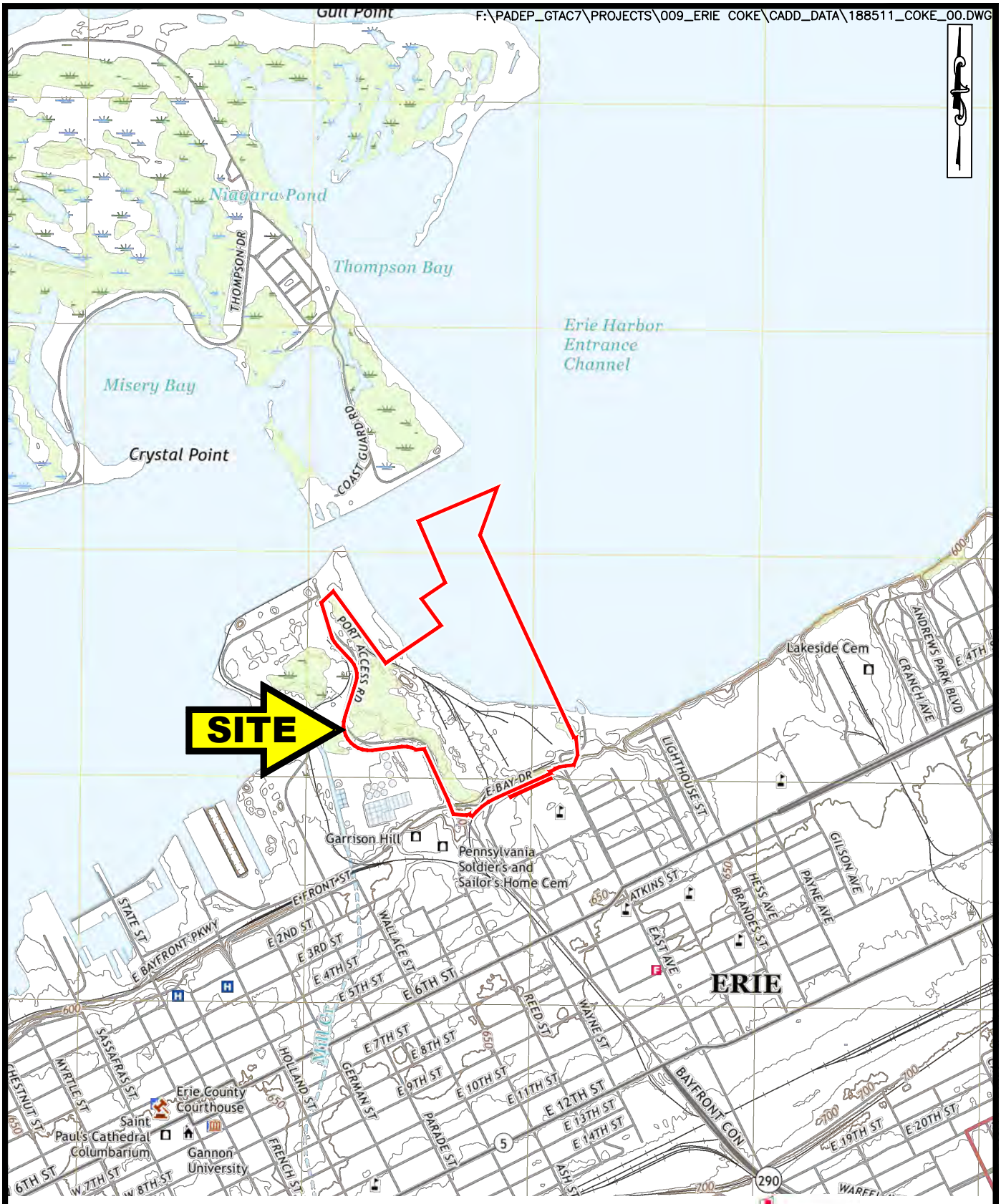

FIGURE 1
SITE LOCATION MAP
ERIE COKE SITE
CITY OF ERIE, ERIE COUNTY, PENNSYLVANIA

SOURCE:
USGS: ERIE NORTH, PA, 2019

QUADRANGLE LOCATION

SCALE:	0 2000	DATE:	FEBRUARY 2023
S.O. NO.:	188511	FILE:	188511_COKE_00
DSN/DWN:	DMG/RRR	CHK:	CHK

OBG Part of Ramboll
Michael Baker INTERNATIONAL
OBG|Baker Environmental Solutions Joint Venture

F:\PADEP_GTAC7\PROJECTS\009_ERIE COKE\CADD_DATA\188511_COKE_01.DWG

ERIE HARBOR CHANNEL

PORT ACCESS RD

LAMPE MARINA
BOAT RAMP

LAKE ERIE

HARBOR BASIN

EAST AVENUE
BOAT RAMP

ERIE COKE
PROPERTY BOUNDARIES

EAST AVENUE
GATE ENTRANCE

ERIE WASTEWATER
TREATMENT PLANT

E BAY DR

BARBER NATIONAL
INSTITUTE

E BAY FRONT PKWY

UPMC

IMAGE SOURCE: GOOGLE; 2019

SCALE: 0 500

S.O. NO.: 188511

DSN/DWN: CHK/RRR

DATE: OCTOBER 2024

FILE: 188511_COKE_01

CHK: CHK

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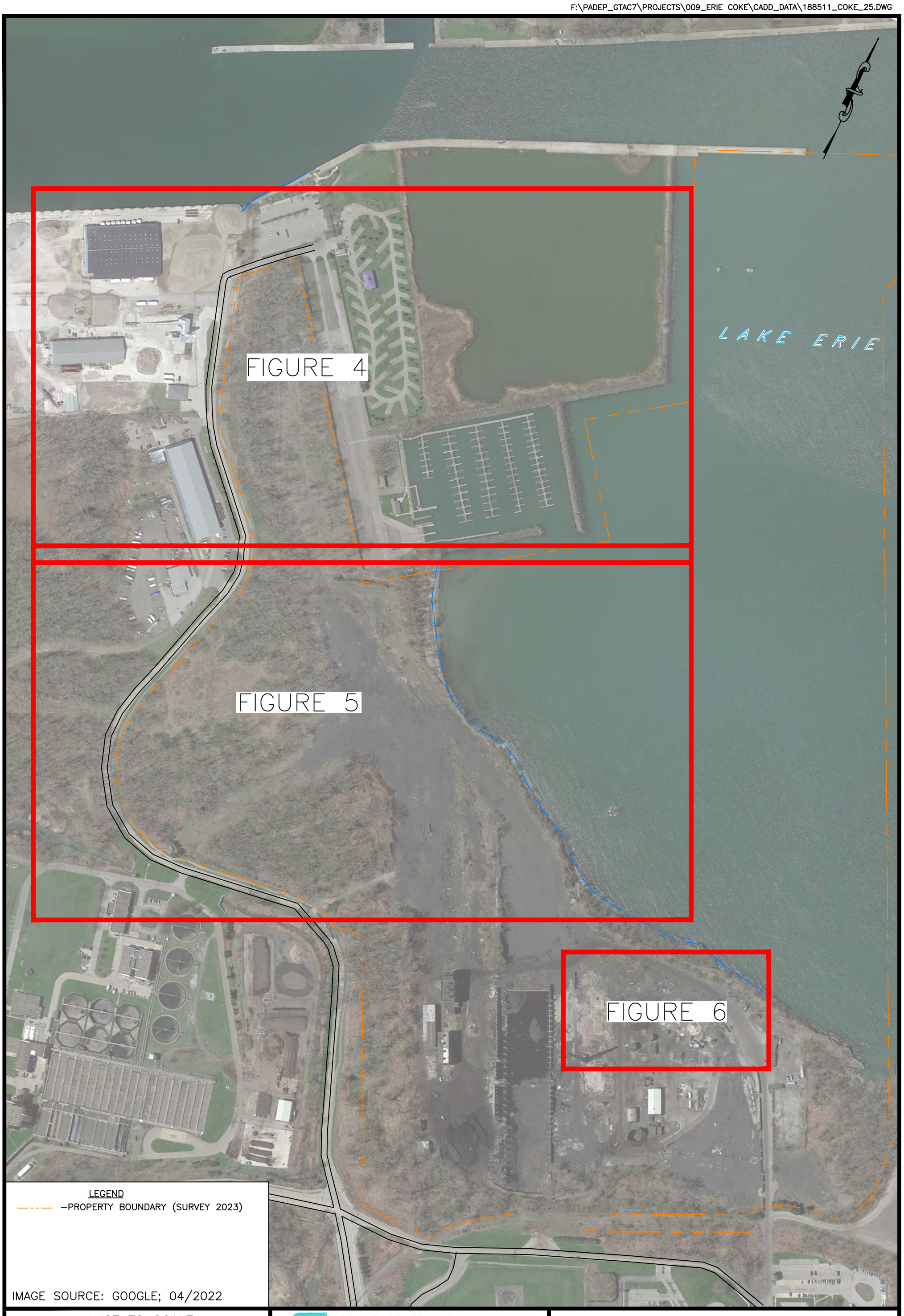
FIGURE 2
SITE FEATURES MAP
ERIE COKE SITE
ERIE COUNTY, PENNSYLVANIA

F:\PADEP_GTAC7\PROJECTS\009_ERIE COKE\CADD_DATA\188511_COKE_25.DWG



LEGEND

—PROPERTY BOUNDARY (SURVEY 2023)

IMAGE SOURCE: GOOGLE; 04/2022

SCALE:	NOT TO SCALE
DATE:	MARCH 2025
DSN/DWN:	CHK/RRR
FILE:	188511_COKE_25

OBG Part of Ramboll

Michael Baker INTERNATIONAL

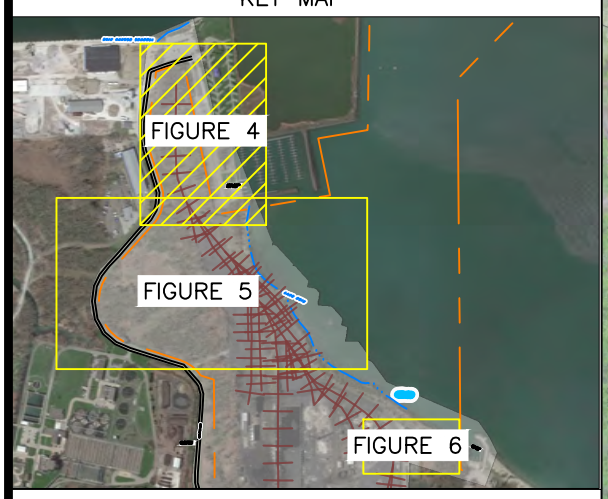
OBG|Baker Environmental Solutions Joint Venture

FIGURE 3
FIGURE NUMBER LAYOUT
ERIE COKE SITE
ERIE, PENNSYLVANIA

F:\PADEP_GTAC7\PROJECTS\009_ERIE COKE\CADD_DATA\188511_COKE_23.DWG 3/20/2025 9:38 AM

SB-41
SB-101A
MW-14
SB-201
SB-202
SB-200
SB-101
SB-203
MW-12
MW-39
SB-102
SB-204
MW-44
SB-103
MW-40
SB-205
SB-104/GWG-100
SB-01
SB-104
MW-15
SB-105
MW-41
SB-207
SB-206
LAKE ERIE
SB-106
SB-208
SB-209
SB-02
SB-109/GWG-101
MW-28
SB-210
SB-107/GWG-102
MW-43
MW-16
SB-211
SB-107
SB-110
MW-2
SB-108
SB-212
SB-110/GWG-103
SB-03
SB-213
LAMPE MARINA
BOAT RAMP
SB-111
SB-214
MW-42
SB-215
SB-04

KEY MAP



LEGEND

- SOIL BORING (2024)
- MONITORING WELL (2024)
- MONITORING WELL (2023)
- SOIL BORING (2023)
- GROUNDWATER GRAB SAMPLE (2023)
- SOIL BORING SAMPLE (2022)
- SURFACE SOIL SAMPLE (2022)
- SURFACE WATER / SEDIMENT SAMPLE (2022)
- SEDIMENT SAMPLE (2022)
- GROUNDWATER GRAB SAMPLE (2022)
- VAULT LOCATION (2022)
- OUTFALL (2022)
- MONITORING WELL (2022)
- PROPERTY BOUNDARY (SURVEY 2023)
- RAILROAD

SOURCE:
IMAGE: DRONE FLOWN JUNE 2022

SCALE:	0 100
DATE:	MARCH 2025
DSN/DWN:	CHK/RRR
FILE:	188511_COKE_23

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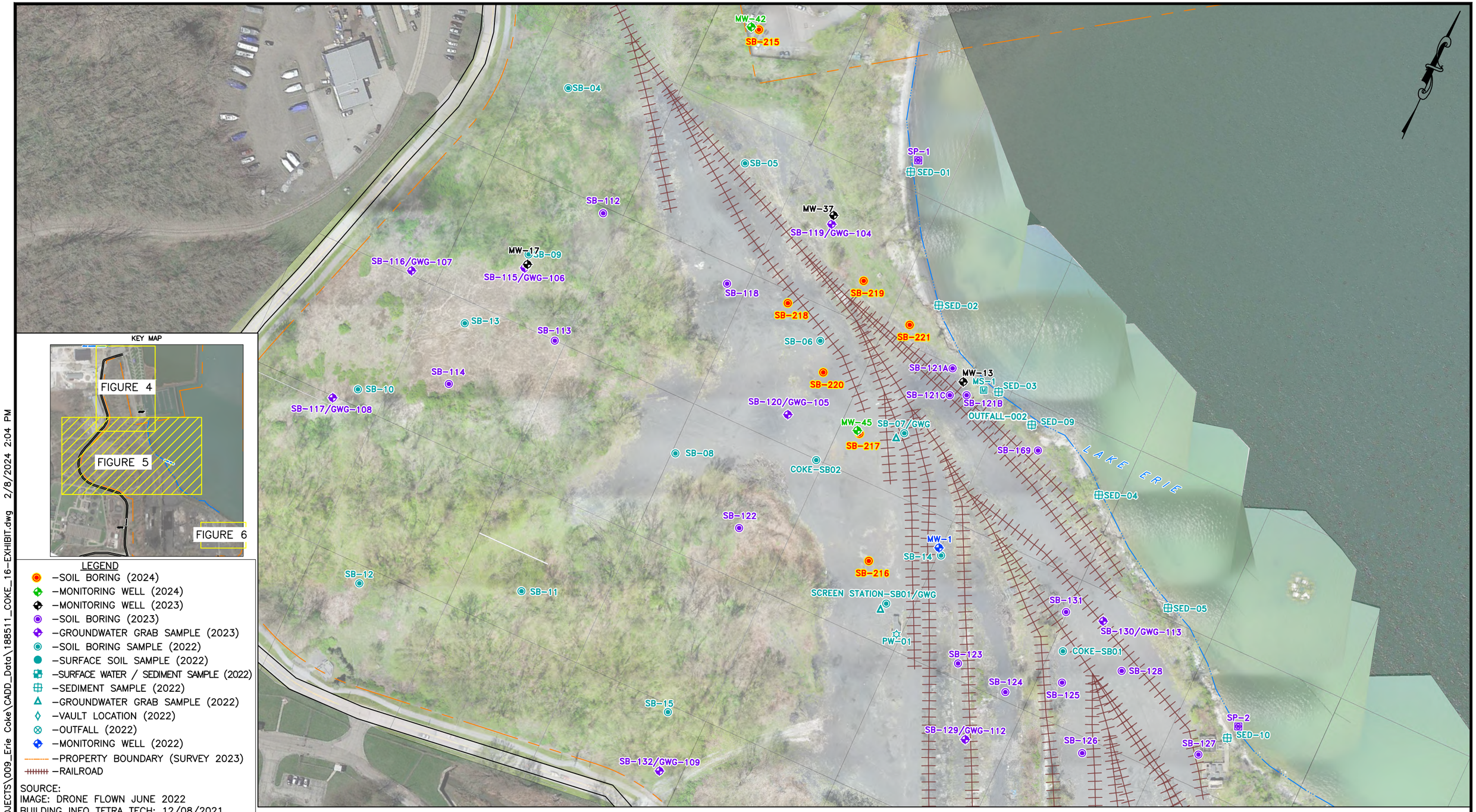
FIGURE 4
SOIL BORING AND MONITORING WELL LOCATIONS
LAMPE MARINA
ERIE COKE SITE
ERIE, PENNSYLVANIA



KEY MAP

LEGEND

- –SOIL BORING (2024)
- –MONITORING WELL (2024)
- –MONITORING WELL (2023)
- –SOIL BORING (2023)
- –GROUNDWATER GRAB SAMPLE (2023)
- –SOIL BORING SAMPLE (2022)
- –SURFACE SOIL SAMPLE (2022)
- –SURFACE WATER / SEDIMENT SAMPLE (2022)
- –SEDIMENT SAMPLE (2022)
- –GROUNDWATER GRAB SAMPLE (2022)
- –VAULT LOCATION (2022)
- –OUTFALL (2022)
- –MONITORING WELL (2022)
- –PROPERTY BOUNDARY (SURVEY 2023)
- –RAILROAD

SOURCE:
IMAGE: DRONE FLOWN JUNE 2022
BUILDING INFO TETRA TECH; 12/08/2021

SCALE: 0 160 1" = 160'
S.O. NO.: 188511
DSN/DWN: CHK/RRR
DATE: MARCH 2025
FILE: 188511_COKE_23
CHK: CHK

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FIGURE 5
SOIL BORING AND MONITORING WELL LOCATIONS INDUSTRIAL NORTH AREA
ERIE COKE SITE
ERIE, PENNSYLVANIA

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SCALE: 0 50 1" = 50'
S.O. NO.: 188511
DSN/DWN: CHK/RRR
DATE: MARCH 2025
FILE: 188511_COKE_23
CHK: CHK

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FIGURE 6
SOIL BORING AND MONITORING WELL LOCATIONS INDUSTRIAL SOUTH AREA – EAST REGION
ERIE COKE SITE
ERIE, PENNSYLVANIA

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Sample ID	SB-203
Date	11/12/2024
Depth	10.0'
VOC (ug/kg)	
Benzene	3,740
SVOC (ug/kg)	
Biphenyl	2,580
Naphthalene	188,000

Sample ID	SB-204
Date	11/12/2024
Depth	10.0'
VOC (ug/kg)	
Benzene	16,500
SVOC (ug/kg)	
Biphenyl	61,700
Naphthalene	1,330,000

Sample ID	MW-41
Date	11/21/2024
Depth	10.0'
VOC (ug/kg)	
Benzene	186,000
SVOC (ug/kg)	
Biphenyl	130,000
Naphthalene	3,600,000

Sample ID	SB-205
Date	11/13/2024
Depth	11.0'
SVOC (ug/kg)	
Naphthalene	14,100

Sample ID	MW-40
Date	11/20/2024
Depth	9.0'
VOC (ug/kg)	
Benzene	13,100
SVOC (ug/kg)	
Biphenyl	11,600
Naphthalene	199,000

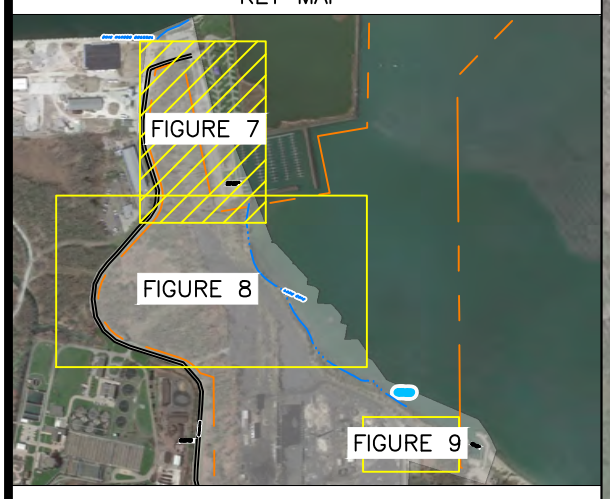
Sample ID	SB-208
Date	11/12/2024
Depth	9.5
VOC (ug/kg)	
Benzene	1,190

Sample ID	SB-206
Date	11/12/2024
Depth	12.0'
VOC (ug/kg)	
Benzene	62,000
SVOC (ug/kg)	
Biphenyl	1,340
Naphthalene	193,000

Sample ID	SB-206
Date	11/12/2024
Depth	14.0'
SVOC (ug/kg)	
Biphenyl	418 J

SB-41
SB-101A
MW-14
SB-201
SB-202
SB-200
SB-101
MW-12
SB-203
MW-39
SB-102
SB-204
MW-44
SB-103
MW-40
SB-205
SB-01
SB-104/GWG-100
SB-104
MW-15
SB-105
MW-41
SB-207
SB-206
SB-106
SB-208
SB-02
SB-209
SB-109/GWG-101
MW-28
SB-210
SB-107/GWG-102
MW-16
MW-43
SB-211
SB-107
SB-110
MW-2
SB-108
SB-212
SB-110/GWG-103
SB-03
SB-213
LAMPE MARINA BOAT RAMP
SB-111
SB-214
MW-42
SB-215
SB-04

KEY MAP



LEGEND

- –SOIL BORING (2024)
- –MONITORING WELL (2024)
- –MONITORING WELL (2023)
- –SOIL BORING (2023)
- –GROUNDWATER GRAB SAMPLE (2023)
- –SOIL BORING SAMPLE (2022)
- –SURFACE SOIL SAMPLE (2022)
- –SURFACE WATER / SEDIMENT SAMPLE (2022)
- –SEDIMENT SAMPLE (2022)
- –GROUNDWATER GRAB SAMPLE (2022)
- –VAULT LOCATION (2022)
- –OUTFALL (2022)
- –MONITORING WELL (2022)
- –PROPERTY BOUNDARY (SURVEY 2023)
- –RAILROAD

SAMPLE RESULTS NOTES

J –ESTIMATED VALUE
µg/kg –MICROGRAM PER KILOGRAM
VOCs –VOLATILE ORGANIC COMPOUNDS
SVOCs –SEMI-VOLATILE ORGANIC COMPOUNDS

IMAGE SOURCE: GOOGLE; 04/2022

SCALE:	0 100
DATE:	MARCH 2025
DSN/DWN:	CHK/RRR
FILE:	188511_EC-HITS-01

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FIGURE 7
SELECT ANALYTE EXCEEDANCES ABOVE CRITERIA IN SOIL
LAMPE MARINA AREA
ERIE COKE SITE
ERIE, PENNSYLVANIA

Sample ID	SB-218
Date	11/15/2024
Depth	7.0'
SVOC (ug/kg)	
Biphenyl	439 J
Naphthalene	46,400

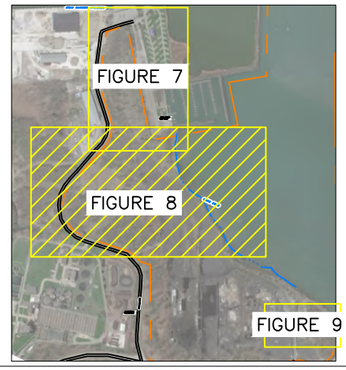
Sample ID	SB-221
Date	11/15/2024
Depth	9.0'
VOC (ug/kg)	
Benzene	678
SVOC (ug/kg)	
Biphenyl	844
Naphthalene	17,600

Sample ID	MW-45
Date	11/21/2024
Depth	10.0'
VOC (ug/kg)	
Benzene	976,000
SVOC (ug/kg)	
Biphenyl	585
Naphthalene	33,800 E

Sample ID	SB-217
Date	11/15/2024
Depth	3.0'
VOC (ug/kg)	
Benzene	539 J
SVOC (ug/kg)	
Biphenyl	535

Sample ID	SB-217
Date	11/15/2024
Depth	6.0'
VOC (ug/kg)	
Benzene	3,890
SVOC (ug/kg)	
Biphenyl	817
Naphthalene	14,300

KEY MAP



LEGEND

- –SOIL BORING (2024)
- –MONITORING WELL (2024)
- –MONITORING WELL (2023)
- –SOIL BORING (2023)
- –GROUNDWATER GRAB SAMPLE (2023)
- –SOIL BORING SAMPLE (2022)
- –SURFACE SOIL SAMPLE (2022)
- –SURFACE WATER / SEDIMENT SAMPLE (2022)
- –SEDIMENT SAMPLE (2022)
- –GROUNDWATER GRAB SAMPLE (2022)
- –VAULT LOCATION (2022)
- –OUTFALL (2022)
- –MONITORING WELL (2022)
- –PROPERTY BOUNDARY (SURVEY 2023)
- –RAILROAD

SAMPLE RESULTS NOTES

J	–ESTIMATED VALUE
E	–RESULT EXCEEDED CALIBRATION RANGE
µg/kg	–MICROGRAM PER KILOGRAM
VOCs	–VOLATILE ORGANIC COMPOUNDS
SVOCs	–SEMI–VOLATILE ORGANIC COMPOUNDS

SCALE: 0 160 1" = 160'

S.O. NO.: 188511

DSN/DWN: CHK/RRR

DATE: MARCH 2025

FILE: 188511_EC–HITS–01

CHK: CHK

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FIGURE 8
SELECT ANALYTE EXCEEDANCES ABOVE CRITERIA IN SOIL
INDUSTRIAL NORTH AREA
ERIE COKE SITE
ERIE, PENNSYLVANIA

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Sample ID	SB-224
Date	11/18/2024
Depth	4.0'
VOC (µg/kg)	
Benzene	1,030
SVOC (µg/kg)	
Naphthalene	15,500

Sample ID	SB-224
Date	11/18/2024
Depth	6.0'
VOC (µg/kg)	
Benzene	1,320

Sample ID	SB-225
Date	11/18/2024
Depth	12.0'
SVOC (µg/kg)	
Biphenyl	21,500
Naphthalene	137,000

Sample ID	SB-225-DUP
Date	11/18/2024
Depth	12.0'
SVOC (µg/kg)	
Biphenyl	9,390
Naphthalene	82,300

KEY MAP

LEGEND

- SOIL BORING (2024)
- MONITORING WELL (2024)
- MONITORING WELL (2023)
- SOIL BORING (2023)
- GROUNDWATER GRAB SAMPLE (2023)
- SOIL BORING SAMPLE (2022)
- SURFACE SOIL SAMPLE (2022)
- SURFACE WATER / SEDIMENT SAMPLE (2022)
- SEDIMENT SAMPLE (2022)
- GROUNDWATER GRAB SAMPLE (2022)
- VAULT LOCATION (2022)
- OUTFALL (2022)
- MONITORING WELL (2022)
- PROPERTY BOUNDARY (SURVEY 2023)
- RAILROAD

SAMPLE RESULTS NOTES

J – ESTIMATED VALUE
µg/kg – MICROGRAM PER KILOGRAM
VOCs – VOLATILE ORGANIC COMPOUNDS
SVOCs – SEMI-VOLATILE ORGANIC COMPOUNDS

SCALE: 0 50 1" = 50'
S.O. NO.: 188511
DSN/DWN: CHK/RRR
DATE: MARCH 2025
FILE: 188511_EC-HITS-01
CHK: CHK

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FIGURE 9
SELECT ANALYTE EXCEEDANCES ABOVE CRITERIA IN SOIL
INDUSTRIAL SOUTH AREA – EAST REGION
ERIE COKE SITE
ERIE, PENNSYLVANIA

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LAKE ERIE

MW-14
MW-12
MW-39
MW-40
MW-44
MW-15
MW-41
MW-28
MW-16
MW-43
MW-2
MW-42
SP-1
MW-37
MW-17
MW-13
MW-45
MW-1
SP-2
MW-19S/D
SP-3
MW-23
MW-11S/D
MW-20
MW-38D
MW-22S/D
MW-21
MW-8S/D
MW-26S/D
MW-10S/D
MW-35S/D
MW-34S/D
MW-33
MW-9S/D
MW-27S/D
MW-36S/D
MW-31
MW-6S/D
MW-29
MW-30
MW-32
MW-18
MW-3
MW-5S/D
MW-24
MW-25
MW-4
MW-7

E BAY DR.

LEGEND
—MONITORING WELL
—STANDPIPE
—PROPERTY BOUNDARY (2023)

NOTE:
DEEP MONITORING WELLS NOT SHOWN FOR CLARITY.

IMAGE SOURCE: GOOGLE; 04/2022

SCALE:	0 300
DATE:	MARCH 2025
DSN/DWN:	CHK/RRR
FILE:	188511_COKE_24

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FIGURE 10
GROUNDWATER MONITORING WELL LOCATION MAP
ERIE COKE SITE
ERIE, PENNSYLVANIA

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ID	GROUNDWATER ELEVATION
MW-1	572.46
MW-2	572.79
MW-3	574.83
MW-4	576.23
MW-5S	575.27
MW-6S	575.44
MW-7	575.79
MW-8S	574.96
MW-9S	576.42
MW-10S	574.80
MW-11S	573.15
MW-12	572.64
MW-13	572.72
MW-14	572.31
MW-15	573.16
MW-16	572.89
MW-17	573.16
MW-18	574.89
MW-19S	573.05
MW-20	573.75
MW-21	572.79
MW-22S	573.17
MW-23	573.03
MW-24	575.57
MW-25	575.78
MW-26S	574.88
MW-27S	575.31
MW-28	572.92
MW-29	575.28
MW-30	574.44
MW-31	574.52
MW-32	573.41
MW-33	572.70
MW-34S	573.80
MW-35S	576.11
MW-36S	576.88
MW-37	572.67
MW-39	572.46
MW-40	572.67
MW-41	572.95
MW-43	572.43
MW-44	572.64
MW-45	572.59
SP-3	571.86

LAKE ERIE

GROUNDWATER FLOW

E BAY DR.

LEGEND
- MONITORING WELL
- STANDPIPE
- 576.23 GROUNDWATER ELEVATION
- 576 GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION
- PROPERTY BOUNDARY (2023)

NOTE:
DEEP MONITORING WELLS NOT SHOWN FOR CLARITY.

IMAGE SOURCE: GOOGLE; 04/2022

SCALE:	0 300
DATE:	JULY 2025
DSN/DWN:	CHK/RRR
FILE:	188511_COKE_19-DEC

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FIGURE 11
GROUNDWATER ELEVATION CONTOUR MAP
DECEMBER 2024
ERIE COKE SITE
ERIE, PENNSYLVANIA

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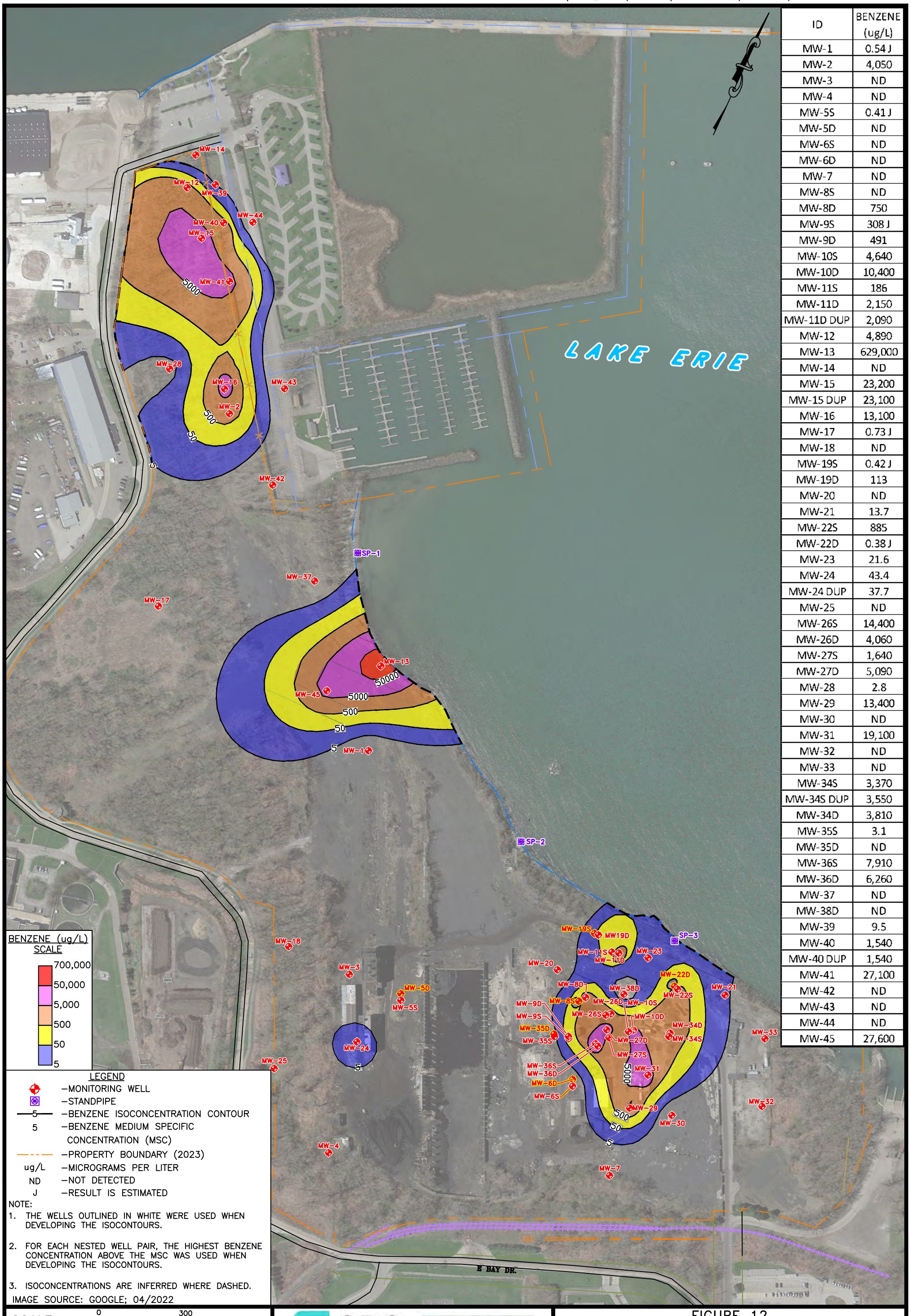

ID	BENZENE (ug/L)
MW-1	0.54 J
MW-2	4,050
MW-3	ND
MW-4	ND
MW-5S	0.41 J
MW-5D	ND
MW-6S	ND
MW-6D	ND
MW-7	ND
MW-8S	ND
MW-8D	750
MW-9S	308 J
MW-9D	491
MW-10S	4,640
MW-10D	10,400
MW-11S	186
MW-11D	2,150
MW-11D DUP	2,090
MW-12	4,890
MW-13	629,000
MW-14	ND
MW-15	23,200
MW-15 DUP	23,100
MW-16	13,100
MW-17	0.73 J
MW-18	ND
MW-19S	0.42 J
MW-19D	113
MW-20	ND
MW-21	13.7
MW-22S	885
MW-22D	0.38 J
MW-23	21.6
MW-24	43.4
MW-24 DUP	37.7
MW-25	ND
MW-26S	14,400
MW-26D	4,060
MW-27S	1,640
MW-27D	5,090
MW-28	2.8
MW-29	13,400
MW-30	ND
MW-31	19,100
MW-32	ND
MW-33	ND
MW-34S	3,370
MW-34S DUP	3,550
MW-34D	3,810
MW-35S	3.1
MW-35D	ND
MW-36S	7,910
MW-36D	6,260
MW-37	ND
MW-38D	ND
MW-39	9.5
MW-40	1,540
MW-40 DUP	1,540
MW-41	27,100
MW-42	ND
MW-43	ND
MW-44	ND
MW-45	27,600

BENZENE (ug/L)
SCALE

- 700,000
- 50,000
- 5,000
- 500
- 50
- 5

LEGEND

- —MONITORING WELL
- —STANDPIPE
- 5 —BENZENE ISOCONCENTRATION CONTOUR
- 5 —BENZENE MEDIUM SPECIFIC CONCENTRATION (MSC)
- —PROPERTY BOUNDARY (2023)
- ug/L —MICROGRAMS PER LITER
- ND —NOT DETECTED
- J —RESULT IS ESTIMATED

NOTE:

1. THE WELLS OUTLINED IN WHITE WERE USED WHEN DEVELOPING THE ISOCONTOURS.
2. FOR EACH NESTED WELL PAIR, THE HIGHEST BENZENE CONCENTRATION ABOVE THE MSC WAS USED WHEN DEVELOPING THE ISOCONTOURS.
3. ISOCONCENTRATIONS ARE INFERRED WHERE DASHED.

IMAGE SOURCE: GOOGLE; 04/2022

SCALE:	0 300
DATE:	JULY 2025
DSN/DWN:	CHK/RRR
FILE:	188511_COKE-ISO-12

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FIGURE 12
BENZENE ISOCONCENTRATION MAP
DECEMBER 2024
ERIE COKE SITE
ERIE, PENNSYLVANIA

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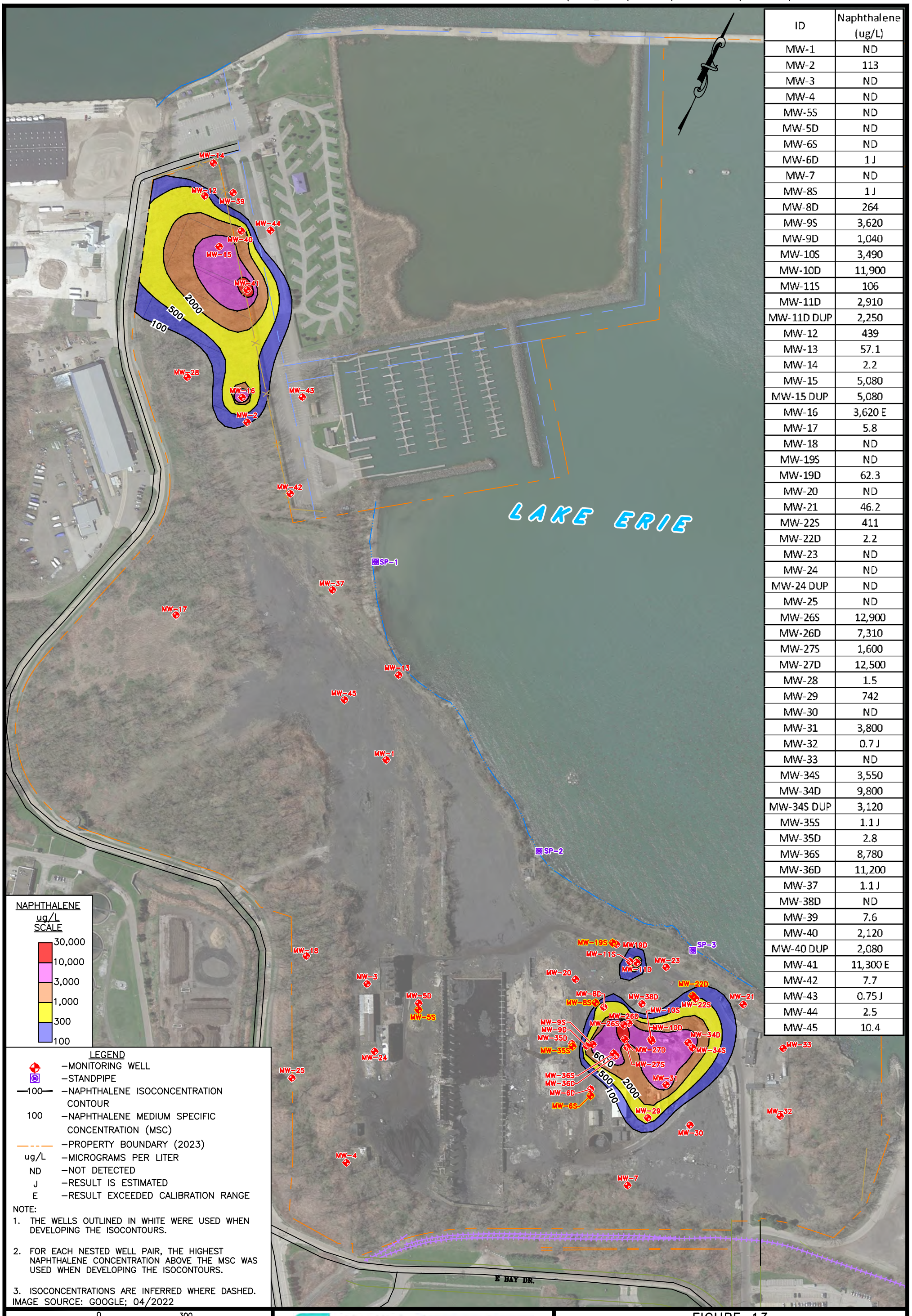

ID	Naphthalene (ug/L)
MW-1	ND
MW-2	113
MW-3	ND
MW-4	ND
MW-5S	ND
MW-5D	ND
MW-6S	ND
MW-6D	1 J
MW-7	ND
MW-8S	1 J
MW-8D	264
MW-9S	3,620
MW-9D	1,040
MW-10S	3,490
MW-10D	11,900
MW-11S	106
MW-11D	2,910
MW-11D DUP	2,250
MW-12	439
MW-13	57.1
MW-14	2.2
MW-15	5,080
MW-15 DUP	5,080
MW-16	3,620 E
MW-17	5.8
MW-18	ND
MW-19S	ND
MW-19D	62.3
MW-20	ND
MW-21	46.2
MW-22S	411
MW-22D	2.2
MW-23	ND
MW-24	ND
MW-24 DUP	ND
MW-25	ND
MW-26S	12,900
MW-26D	7,310
MW-27S	1,600
MW-27D	12,500
MW-28	1.5
MW-29	742
MW-30	ND
MW-31	3,800
MW-32	0.7 J
MW-33	ND
MW-34S	3,550
MW-34D	9,800
MW-34S DUP	3,120
MW-35S	1.1 J
MW-35D	2.8
MW-36S	8,780
MW-36D	11,200
MW-37	1.1 J
MW-38D	ND
MW-39	7.6
MW-40	2,120
MW-40 DUP	2,080
MW-41	11,300 E
MW-42	7.7
MW-43	0.75 J
MW-44	2.5
MW-45	10.4

NAPHTHALENE
ug/L
SCALE

30,000
10,000
3,000
1,000
300
100

LEGEND

- —MONITORING WELL
- —STANDPIPE
- —100— —NAPHTHALENE ISOCONCENTRATION CONTOUR
- 100 —NAPHTHALENE MEDIUM SPECIFIC CONCENTRATION (MSC)
- —PROPERTY BOUNDARY (2023)
- ug/L —MICROGRAMS PER LITER
- ND —NOT DETECTED
- J —RESULT IS ESTIMATED
- E —RESULT EXCEEDED CALIBRATION RANGE

NOTE:

1. THE WELLS OUTLINED IN WHITE WERE USED WHEN DEVELOPING THE ISOCONTOURS.
2. FOR EACH NESTED WELL PAIR, THE HIGHEST NAPHTHALENE CONCENTRATION ABOVE THE MSC WAS USED WHEN DEVELOPING THE ISOCONTOURS.
3. ISOCONCENTRATIONS ARE INFERRED WHERE DASHED.

IMAGE SOURCE: GOOGLE; 04/2022

SCALE:	0 300
DATE:	MARCH 2025
DSN/DWN:	CHK/RRR
FILE:	188511_COKE-ISO-13

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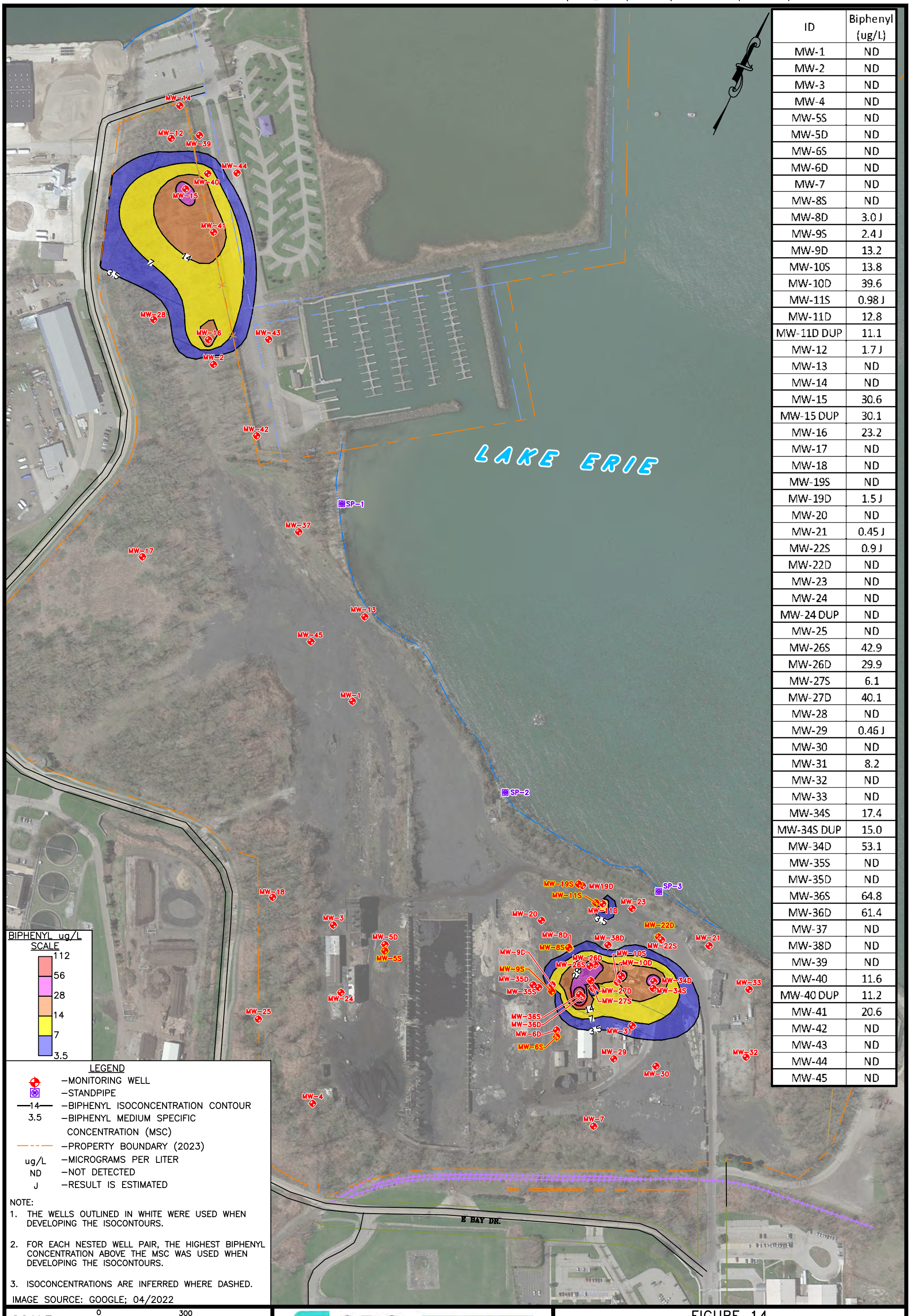
FIGURE 13
NAPHTHALENE ISOCONCENTRATION MAP
DECEMBER 2024
ERIE COKE SITE
ERIE, PENNSYLVANIA

F:\PADEP_GTAC7\PROJECTS\009_ERIE COKE\CADD_DATA\188511_COKE-ISO-14.DWG



ID	Biphenyl (ug/L)
MW-1	ND
MW-2	ND
MW-3	ND
MW-4	ND
MW-5S	ND
MW-5D	ND
MW-6S	ND
MW-6D	ND
MW-7	ND
MW-8S	ND
MW-8D	3.0 J
MW-9S	2.4 J
MW-9D	13.2
MW-10S	13.8
MW-10D	39.6
MW-11S	0.98 J
MW-11D	12.8
MW-11D DUP	11.1
MW-12	1.7 J
MW-13	ND
MW-14	ND
MW-15	30.6
MW-15 DUP	30.1
MW-16	23.2
MW-17	ND
MW-18	ND
MW-19S	ND
MW-19D	1.5 J
MW-20	ND
MW-21	0.45 J
MW-22S	0.9 J
MW-22D	ND
MW-23	ND
MW-24	ND
MW-24 DUP	ND
MW-25	ND
MW-26S	42.9
MW-26D	29.9
MW-27S	6.1
MW-27D	40.1
MW-28	ND
MW-29	0.46 J
MW-30	ND
MW-31	8.2
MW-32	ND
MW-33	ND
MW-34S	17.4
MW-34S DUP	15.0
MW-34D	53.1
MW-35S	ND
MW-35D	ND
MW-36S	64.8
MW-36D	61.4
MW-37	ND
MW-38D	ND
MW-39	ND
MW-40	11.6
MW-40 DUP	11.2
MW-41	20.6
MW-42	ND
MW-43	ND
MW-44	ND
MW-45	ND

BIPHENYL ug/L SCALE

112
56
28
14
7
3.5

LEGEND

- —MONITORING WELL
- —STANDPIPE
- 14 —BIPHENYL ISOCONCENTRATION CONTOUR
- 3.5 —BIPHENYL MEDIUM SPECIFIC CONCENTRATION (MSC)
- —PROPERTY BOUNDARY (2023)
- ug/L —MICROGRAMS PER LITER
- ND —NOT DETECTED
- J —RESULT IS ESTIMATED

NOTE:

1. THE WELLS OUTLINED IN WHITE WERE USED WHEN DEVELOPING THE ISOCONTOURS.
2. FOR EACH NESTED WELL PAIR, THE HIGHEST BIPHENYL CONCENTRATION ABOVE THE MSC WAS USED WHEN DEVELOPING THE ISOCONTOURS.
3. ISOCONCENTRATIONS ARE INFERRED WHERE DASHED.

IMAGE SOURCE: GOOGLE; 04/2022

SCALE:	0 300
DATE:	MARCH 2025
DSN/DWN:	CHK/RRR
FILE:	188511_COKE-ISO-14

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FIGURE 14
BIPHENYL ISOCONCENTRATION MAP
DECEMBER 2024

ERIE COKE SITE
ERIE, PENNSYLVANIA

SB-137/GWG-118
VAULT B
SB-148/GWG-121
MW-19S
MW19D
SB-31
SB-149/GWG-122
SP-3
COKE-SB03
LAKE ERIE
72-SWSD
72
MW-11S
MW-11D
SB-163/GWG-123
MW-23
SB-139/GWG-119
MW-20
A-SED
VAULT F
VAULT G
VAULT H
SB-30
BATTERY AREA
60
23-SB01
23-SS01
SB-136/GWG-120
VAULT
MW-22D
MW-22S
SB-177/GWG-146
SB-179/GWG-147
23
MW-38D
22-SB01
SB-159/GWG-124
MW-21
33-SB02/GWG
MW-8S
MW-8D
22-SS01
23-SS02
28
27
105
25
26
24
SB-178/GWG-145
22
SB-153/GWG-136
21-SB01/GWG
SB-155/GWG-125
SB-37
SB-174/GWG-144
33-SS01
22-SS02
21-SS01
21
99
SB-152/GWG-138
MW-26S
MW-26D
SB-176/GWG-143
21-SS02
PIT
SB-154/GWG-135
SB-161
96
29
33-SS02
33
33-SB01
100
98
18
15-SS02
15-SS01
32
31-SB02
31-SB01/GWG
31-SS01
MW-27D
MW-10D
MW-10S
15-SB01/GWG
15
14
13
MW-35D
SB-150/GWG-132
MW-35S
MW-9D
MW-9S
31
101
39
SB-151/GWG-137
SB-156/GWG-134
MW-34D
MW-34S
30
34
31-SS02
97
MW-27S
39-SB01
SB-173/GWG-139
MW-36S
SB-175/GWG-142
17
36
38
MW-36D
SB-158/GWG-131
35
37
16
38-SB01
SB-157/GWG-133
SB-172

KEY MAP
DNAPL

LEGEND
- –MONITORING WELL (2023)
- –SOIL BORING (2023)
- –GROUNDWATER GRAB SAMPLE (2023)
- –STAND PIPE (2023)
- –SOIL BORING SAMPLE (2022)
- –SURFACE SOIL SAMPLE (2022)
- –SURFACE WATER / SEDIMENT SAMPLE (2022)
- –SEDIMENT SAMPLE (2022)
- –GROUNDWATER GRAB SAMPLE (2022)
- –VAULT LOCATION (2022)
- –OUTFALL (2022)
- –MONITORING WELL (2022)
- –INFERRED HORIZONTAL EXTENT OF DNAPL

SOURCE:
IMAGE: DRONE FLOWN JUNE 2022
BUILDING INFO TETRA TECH; 12/08/2021

F:\PADEP_GTAC\PROJECTS\009_Erie Coke\CADD_Data\188511_COKE_16-EXHIBIT.dwg 2/19/2024 8:26 AM

SCALE: 0 50 1" = 50'
S.O. NO.: 188511
DSN/DWN: CHK/RRR
DATE: MARCH 2025
FILE: 188511_EC_DNAPL-01
CHK: CHK

OBG Part of Ramboll
Michael Baker INTERNATIONAL
OBG|Baker Environmental Solutions Joint Venture

FIGURE 15
DENSE NON-AQUEOUS PHASE LIQUID (DNAPL) LOCATION MAP
NOVEMBER 2024
ERIE COKE SITE
ERIE, PENNSYLVANIA

ATTACHMENT A

Soil Boring Logs

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-200
COORDINATES: EAST: 1337358.271 NORTH: 731284.882
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/13/2024	0.0 - 55.0	Sun, 30s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1						SANDY SILT, little to some fine to coarse rock fragments, trace to little clay; light brown, light gray; damp (FILL)	
2							
3							
4					0.0		
5		C-1	6.7		0.0		
6					0.0		
7					0.0		
8					0.0		
9					0.0	9.0	
10	10.0			(9-10)	0.0	SILT and SAND, some shale fragments and rounded gravel, trace brick fragments; light gray; damp, wet at 10' (Potential Dredge Material) 10.0	
		C-2					

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-200 SHEET 1 OF 4

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-200

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
11				0.0	SILT and FINE SAND with ORGANICS (Native); dark gray, black; wet	
12				0.0		
13				0.0		
14				0.0	14.0	
15		C-2	9.0	0.0	SILTY FINE SAND; gray; wet	
16				0.0		
17				0.0	17.0	
18				0.0	SILTY FINE to MEDIUM SAND; light gray, gray; wet	
19				0.0		
20	20.0			0.0		
21				0.0		
22		C-3	5.0	0.0		
23				0.0		
24				0.0		
25	25.0			0.0		
26				0.0		
27		C-4	5.0	0.0		
28				0.0		
29				0.0		
30	30.0			0.0		
		C-5				

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-200 SHEET 2 OF 4

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-200

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
31					0.0	SILTY FINE to MEDIUM SAND; light gray, gray; wet	
32		C-5	5.0		0.0		
33					0.0		
34					0.0		
35	35.0				0.0		
36							
37							
38							
39							
40		C-6	0*			*No Recovery, saturated sample.	
41							
42							
43							
44							
45	45.0						
46							
47					0.0		
48		C-7	8.0		0.0		
49					0.0		
50					0.0	little clay after 49'	

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-200 SHEET 3 OF 4

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-200

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
51					0.0	SILTY FINE to MEDIUM SAND, little clay; light gray, gray; wet	
52		C-7	8.0		0.0	52.5	
53					0.0	SANDY CLAY, little to some rounded fine to coarse gravel; light gray, moist to wet; cobble at 53.5'	
54					0.0	54.0	
55	55.0				0.0	BEDROCK (SHALE); light gray; dry 55.0	
56						End of Boring at 55.0'	
57							
58							
59							
60							
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-200 SHEET 4 OF 4

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-201
COORDINATES: EAST: 1,337,085.667 NORTH: 731,192.426
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/12/2024	0.0 - 20.0	Cloudy, 40s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1					0.0	SILT and GRAVEL; light gray, brown; damp	
						1.5	
2					0.0	CLAYEY SILT with FINE SAND; brown and light gray; damp	
3					0.0		
4					0.0		
5		C-1	9.0		0.0		
6					0.0		
7					0.0		
						7.0	
8					0.0	SANDY SILT and COKE/COAL BREEZE, trace roots; slight odor; damp, moist after 9'	
9					0.0		
10	10.0				0.0		
						10.0	
		C-2				CLAY, SILT, and GRAVEL (FILL); light gray, gray; damp	

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-201 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-201

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
11						CLAY, SILT, and GRAVEL (FILL); light gray, gray; damp	
12							
13		C-2	3.6		0.1		
14				(13-14)	0.1	Groundwater at 14'	
15					0.0		
16	16.0				0.0	16.0	
17					0.0	SILTY FINE to MEDIUM SAND, trace rounded coarse gravel; light gray; wet (Native)	
18		C-3	4.0		0.0		
19					0.0		
20	20.0				0.0	20.0'	
21						End of Boring at 20.0'	
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-201 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-202
COORDINATES: EAST: 1,337,162.211 NORTH: 731,239.792
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/13/2024	0.0 - 20.0	Sun, 30s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
1				0.0	SANDY SILT with ROCK FRAGMENTS; light brown, brown; dry to damp	1.5	
2	C-1	4.5		0.0	SANDY SILT and ROCK FRAGMENTS, little wood fragments; light gray, tan; damp	3.0	
3				0.0			
4				0.0	SILTY CLAY (Plastic to Non-Plastic), little sand and rock fragments, trace wood fragments, varying amounts of sand and rock		
5				0.0			
5.0							
6				0.0			
7	C-2	4.4		0.0			
8				0.0			
9				0.0		9.5	
10				0.0	SILT and SAND, some rock fragments, little organics; dark brown; damp	10.0	
10.0	C-3						

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-202 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-202

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11			(10-11)	0.0	SILT and SAND with ORGANICS, trace shell fragments; gray, light gray; moist, wet at 11'		
12				0.0	(Native)	12.0	
13				0.0	SILTY FINE to MEDIUM SAND; light gray; wet		
14				0.0			
15		C-3	10.0	0.0			
16				0.0			
17				0.0			
18				0.0			
19				0.0			
20	20.0			0.0		20.0	
21					End of Boring at 20.0'		
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-202 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-203
COORDINATES: EAST: 1,337,120.399 NORTH: 731,145.338
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/12/2024	0.0 - 20.0	Cloudy, 40s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1					0.0	SANDY SILT, trace clay, rock and rounded gravel light brown, brown; damp little wood fragments at 1'	
2					0.0		
		C-1	5.0				
3					0.0		
4					0.0		
						4.5	
5	5.0				0.0	SILTY SAND, SLAG and ROCK FRAGMENTS with varying layers of sand, silt and little clay; brown; damp	
6					0.0		
7					0.0		
		C-2	5.0				
8					0.0		
						8.5	
9					1.3	SILTY SAND, SLAG and COKE/COAL BREEZE; dark gray; odor; moist, wet at 10'	
10	10.0			(9-10)	0.3	10.0	
		C-3				SILTY FINE to MEDIUM SAND; light gray; wet	

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-203 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-203

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	Elevation (Ft. MSL)
11				0.0	SILTY FINE to MEDIUM SAND; light gray; wet (Native)	
12				0.0		
13				0.0		
14				0.0		
15	C-3	10.0		0.0		
16				0.0		
17				0.0		
18				0.0		
19				0.0		
20	20.0			0.0		
					End of Boring at 20.0' (20.0)	
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-203 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-204
COORDINATES: EAST: 1,337,199.771 NORTH: 731,039.418
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/12/2024	0.0 - 20.0	Cloudy, 40s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1				0.0	SANDY SILT, trace clay and fine rounded gravel; light brown, brown; damp	
2				0.0		
	C-1	5.0				
3				0.0		
4				0.0		
5	5.0			0.0		
6				0.1		
7				0.7	7.1	
	C-2	5.0			SILTY SAND, SLAG and COKE/COAL BREEZE, trace brick fragments; odor; dark gray; damp to moist wet at 10'	
8				7.0		
9				7.0	9.5	
10	10.0		(9-10)	88.8	SILTY SAND, COKE/COAL BREEZE with SLIGHTLY TARRY MATERIAL (COAL TAR) and WOOD FRAGS.; black; wet at 10' 10.0	
	C-3					

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-204 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-204

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	Elevation (Ft. MSL)
11				1.0	SANDY SILT with ORGANICS; dark gray; moist to wet (Native)	
12				0.0	(Ft.) 12.0	
13				0.0	SILTY FINE to MEDIUM SAND; light gray; wet (Native)	
14				0.0		
15	C-3	10.0		0.0		
16				0.0		
17				0.0		
18				0.0		
19				0.0		
20	20.0			0.0	20.0	
21					End of Boring at 20.0'	
22						
23						
24						
25						
26						
27						
28						
29						
30						

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-204 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-205
COORDINATES: EAST: 1,337,300.418 NORTH: 731,071.352
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	**Split Spoon**	**Casing**	**Augers**	**Core Barrel**	**Date**	**Progress (Ft.)**	**Weather**	**Depth to Water (Ft.)**
Size (ID)				6"	11/13/2024	0.0 - 20.0	Sun, 30s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1				0.0	SILT, SAND and ROCK FRAGMENTS; light brown, brown; damp	
2				0.0	2.0	
	C-1	4.5			CLAYEY SILT, little fine sand, trace rock fragments, with varying amounts of clay; light brown, light gray; damp	
3				0.0		
4				0.0		
5	5.0			0.0		
6				0.0		
7				0.0		
	C-2	5.0				
8				0.0		
9				0.0	9.0	
10	10.0			0.0	SANDY SILT with ROCK FRAGMENTS, little organics; brown; damp to moist	
	C-3				10.0	

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-205 SHEET 1 OF 2

Baker

Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation

SO NO.: 188511 BORING NO.: SB-205

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
11				(10-11)	0.0	SILT and FINE SAND with ORGANICS; gray; moist, wet at 11' (Native)	
12					0.0	12.0	
13					0.0	SILTY FINE to MEDIUM SAND; light gray; wet	
14					0.0		
15		C-3	10.0		0.0		
16					0.0		
17					0.0		
18					0.0		
19					0.0		
20	20.0				0.0	20.0	
21						End of Boring at 20.0'	
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia

DRILLER: Arlen Little BORING NO.: SB-205 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-206
COORDINATES: EAST: 1,337,310.865 NORTH: 730,856.071
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/12/2024	0.0 - 20.0	Cloudy, 40s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1					0.4	SANDY SILT with SUBROUNDED GRAVEL and ROCK FRAGMENTS, trace clay; light brown, gray; damp	
2					21.1	2.0	
		C-1	5.0			SILTY SAND, SLAG and COKE/COAL BREEZE with Odor; dark gray to black; damp; metal fragment from 5.5-6' (Offset hole 5' South)	
3					62.2		
4					75.5		
5	5.0				232.0		
6							
7					20.8		
8		C-2	8.0		111.0		
9					88.2		
10					39.0		

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-206 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-206

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11				100.0	SILTY SAND, SLAG and COKE/COAL BREEZE with Odor; dark gray to black; damp		
12		C-2	(11-12)	309.0			
13				36.0		13.0	
14			(13-14)	18.7	SILT and FINE SAND, little organics; gray; moist (Native)	14.0	
15	15.0			13.2	SILTY FINE to MEDIUM SAND; light gray; wet (Native)		
16				0.0			
17		C-3		0.0			
18			5.0	0.0			
19				0.0			
20	20.0			0.0		20.0	
21					End of Boring at 20.0'		
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-206 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-207
COORDINATES: EAST: 1,337,411.773 NORTH: 730,922.961
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/14/2024	0.0 - 20.0	Cloudy, Rain, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1						SANDY SILT, SLAG, and ROCK FRAGMENTS, trace clay; brown; damp	
2		C-1	2.5				
3					0.0		
						3.5	
4					0.0	CLAYEY SILT, little sand and rock fragments, trace brick fragments; light brown, brown, light gray;	
5	5.0				0.0	damp	
6					0.0		
7					0.0		
		C-2	4.5				
8					0.0		
9					0.0		
						9.0	
10	10.0			(9-10)	0.0	SAND and SILT, little rounded gravel, trace organics; dark brown; damp to moist, wet at 10'	
		C-3				10.0	

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-207 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-207

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
11				0.0	SILT and FINE SAND, little organics (Native); gray to dark gray; moist to wet	
12				0.0		
13				0.0		
14				0.0	14.0	
15		C-3	10.0	0.0	SILTY FINE to MEDIUM SAND; light gray; wet	
16				0.0		
17				0.0		
18				0.0		
19				0.0		
20	20.0			0.0	20.0	
21					End of Boring at 20.0'	
22						
23						
24						
25						
26						
27						
28						
29						
30						

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-207 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-208
COORDINATES: EAST: 1,337,393.405 NORTH: 730,744.991
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/12/2024	0.0 - 20.0	Cloudy, 40s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
1					0.0	SILT, SAND, ROUNDED FINE to COARSE GRAVEL and ROCK FRAGMENTS	1.3	
2					0.0	SANDY SILT, little rounded to subrounded gravel, trace clay; light brown, light gray; damp		
3		C-1	5.0		0.0			
4					0.0			
5	5.0				0.0			
6								
7					0.0			
		C-2	3.0				7.5	
8					0.0	SANDY SILT with ROUNDED GRAVEL, SLAG and WOOD FRAGMENTS; dark brown and gray;		
9					0.0	damp to moist		
				(8.5-9.5)		Wet at 9.5'		
10	10.0				0.0			
		C-3						

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-208 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-208

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11					1.4	Same as Above	11.0	
12					0.0	SILTY FINE to MEDIUM SAND; light gray; wet (Native)		
13					0.0			
14					0.0			
15		C-3	10.0		0.0			
16					0.0			
17					0.0			
18					0.0			
19					0.0			
20	20.0				0.0		20.0	
						End of Boring at 20.0'		
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-208 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-209
COORDINATES: EAST: 1,337,553.214 NORTH: 730,730.109
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/14/2024	0.0 - 20.0	Cloudy, Rain, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1				0.0	CLAYEY SILT, SAND, ROCK FRAGMENTS, and ROUNDED GRAVEL, trace brick fragments; light brown, light gray; damp (FILL)	
2				0.0		
	C-1	5.0				
3				0.0		
4				0.0		
5	5.0			0.0		
6				0.0		
					6.5	
7				0.0	SILT, CLAY, and SAND, little fine rounded gravel; gray, dark gray; damp to moist	
	C-2	4.5				
8				0.0		
			(7.5-8.5)		Wet at 8.5'	
9				0.0		
					9.0	
10	10.0			0.0	SANDY SILT and ROCK FRAGMENTS, trace clay; reddish-brown; moist to wet	
	C-3					

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-209 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-209

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
11				0.0	SANDY SILT and ROCK FRAGMENTS, trace clay; reddish-brown; moist to wet	
12				0.0	12.0	
13				0.0	SILT and FINE SAND with ORGANICS (Native); gray; moist to wet	
14				0.0	14.0	
15	C-3	10.0		0.0	SILTY FINE to MEDIUM SAND; light gray; wet	
16				0.0		
17				0.0		
18				0.0		
19				0.0		
20	20.0			0.0	20.0	
21					End of Boring at 20.0'	
22						
23						
24						
25						
26						
27						
28						
29						
30						

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-209 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-210
COORDINATES: EAST: 1,337,513.309 NORTH: 730,591.8
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	**Split Spoon**	**Casing**	**Augers**	**Core Barrel**	**Date**	**Progress (Ft.)**	**Weather**	**Depth to Water (Ft.)**
Size (ID)				6"	11/12/2024	0.0 - 20.0	Cloudy, 40s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1					0.0	SILT, FINE to COARSE SAND, and FINE to COARSE ROUNDED GRAVEL 1.0	
2		C-1	5.0		0.0	SILTY SAND and SLAG; brown, light gray to dark gray; damp to moist	
3					0.0		
4					0.0		
5	5.0				0.0		
6		C-2	4.5		0.0		
7					0.0		
8					0.0		
9				(8-9)	0.0	Wet at 9'	
10	10.0				0.0		
		C-3				10.5	

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-210 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-210

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11				0.1	SILTY FINE to COARSE SAND and FINE ROUNDED to SUBROUNDED GRAVEL; dark gray; wet		
12	C-3	5.0		0.0		12.5	
13				0.8	SILT and FINE SAND with ORGANICS, trace shells; gray; moist to wet (Native)		
14				0.0			
15 15.0				0.0		15.0	
16	C-4	5.0		0.0	SILTY COARSE SAND and FINE to COARSE ROUNDED, SUBROUNDED and ANGULAR GRAVEL; brown; wet		
17				0.0			
18				0.0		18.7	
19				0.0			
20 20.0				0.0	SILTY FINE to MEDIUM SAND; light gray; wet	20.0	
21					End of Boring at 20.0'		
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-210 SHEET 2 OF 2

Baker

Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-211
COORDINATES: EAST: 1,337,638.896 NORTH: 730,588.007
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/14/2024	0.0 - 20.0	Cloudy, Rain, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1						SILT and FINE to MEDIUM SAND with FINE to COARSE ROUNDED GRAVEL, trace brick and wood fragments; light brown; damp	
2		C-1	3.0		0.0		
3					0.0		
4					0.0		
5	5.0				0.0	4.5 SANDY SILT with FINE to COARSE ROUNDED GRAVEL, trace clay; light gray, light brown; damp	
6							
7		C-2	3.0		0.0	7.0 CLAYEY SILT with SAND, little fine rounded gravel; light gray, light brown; damp	
8					0.0		
9					0.0		
10	10.0				0.0		
		C-3					

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-211 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-211

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11				0.0	CLAYEY SILT with SAND, little fine rounded		
			(10.5-11.5)		gravel; light gray, light brown; damp		
12				0.0	larger rock fragments after 11'; wet at 11.5'		
13				0.0		13.0	
					SILT and FINE SAND, little organics (Native); gray,		
14				0.0	dark gray; moist to wet		
15	C-3	10.0		0.0		15.0	
					SILTY FINE to MEDIUM SAND; light gray; wet		
16				0.0			
17				0.0			
18				0.0			
19				0.0			
20	20.0			0.0		20.0	
					End of Boring at 20.0'		
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-211 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-212
COORDINATES: EAST: 1,337,596.14 NORTH: 730,476.968
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/12/2024	0.0 - 15.0	Sun, 30s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
1					SANDY SILT and ROCK FRAGMENTS; light brown; damp	1.0	
2					SILTY SAND and SLAG FRAGMENTS; gray; damp		
3	C-1	2.7		0.0			
4				0.0			
5	5.0			0.0			
6							
7							
8	C-2	1.7					
9				0.0	Slag and Brick Fragments from 8.3-10'		
10	10.0			0.1			
	C-3						

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-212 SHEET 1 OF 2

Baker

Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation

SO NO.: 188511 BORING NO.: SB-212

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
11				(10-11)	0.0	SILTY SAND and SLAG FRAGMENTS; gray; damp, wet at 11'	
12		C-3	4.0		0.0	12.0 SILT and FINE SAND with ORGANICS; dark gray, black; moist to wet (Native)	
13					0.0	13.5	
14					0.0	SILTY FINE to MEDIUM SAND; gray, light gray; wet	
15	15.0				0.0	15.0	
						End of Boring at 15.0'	
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia

DRILLER: Arlen Little BORING NO.: SB-212 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-213
COORDINATES: EAST: 1,337,716.871 NORTH: 730,472.14
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/14/2024	0.0 - 20.0	Cloudy, Rain, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1					SILTY FINE to MEDIUM SAND, some fine to coarse gravel	
2				0.0		
	C-1	3.5				
3				0.0	trace slag from 2.5-3' 3.0	
4				0.0	CLAYEY SILT and SAND, little to some fine gravel, 4.5	
5	5.0			0.0	SILTY SAND and FINE GRAVEL; light brown; damp 5.0	
6				0.0	CLAYEY SILT, trace to little fine gravel; light gray, light brown; damp	
7				0.0		
	C-2	5.0			more clay content after 7'	
8				0.0		
9				0.0		
10	10.0			0.0		
	C-3					

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-213 SHEET 1 OF 2

Baker

Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation

SO NO.: 188511 BORING NO.: SB-213

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
11				(10-11)	0.0	CLAYEY SILT, trace to little clay and fine gravel; light gray, light brown; damp, wet at 11'	
12					0.0		
13					0.0	13.0	
14					0.0	SILT and SAND with ORGANICS (Native); gray, dark gray; moist to wet	
15		C-3	10.0		0.0	15.0	
16					0.0	SILTY FINE to MEDIUM SAND; light gray; wet	
17					0.0		
18					0.0		
19					0.0		
20	20.0				0.0	20.0	
21						End of Boring at 20.0'	
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia

DRILLER: Arlen Little BORING NO.: SB-213 SHEET 2 OF 2

Baker

Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-214
COORDINATES: EAST: 1,337,680.978 NORTH: 730,361.696
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/13/2024	0.0 - 20.0	Sun, 30s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1					SANDY SILT and ROCK FRAGMENTS; light brown; damp	
2		C-1	3.0	0.0		
3				0.0		
4				0.0	3.6 SILTY SAND, SLAG and BRICK FRAGMENTS; gray, tan; damp	
5	5.0			0.0		
6				0.0		
7		C-2	4.5	0.0		
8				0.0		
9			(8-9)	0.0	Wet at 9' some coke/coal breeze after 9'	
10	10.0			0.0		
		C-3				

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-214 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-214

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11				0.0	Same as Above	11.0	
12				0.0	SILT and FINE SAND with ORGANICS; dark gray, black; wet (Native)	12.0	
13				0.0	SILTY FINE to MEDIUM SAND; light gray, gray wet		
14				0.0			
15		C-3	10.0	0.0			
16				0.0			
17				0.0			
18				0.0			
19				0.0			
20	20.0			0.0		20.0	
21					End of Boring at 20.0'		
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-214 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-215
COORDINATES: EAST: 1,337,749.872 NORTH: 730,271.789
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/13/2024	0.0 - 20.0	Sun, 30s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1					SANDY SILT with ROCK and FINE to COARSE ROUNDED/SUBROUNDED GRAVEL FRAGMENTS; light brown; damp	
2		C-1	1.5			
3						
4				0.0		
5	5.0			0.0	5.5	
6				0.3	SILTY COARSE SAND and FINE to COARSE ROUNDED GRAVEL, some brick fragments; damp, wet at 7'	
7			(6-7)	0.3		
		C-2	4.5			
8				0.1	8.0	
9				9.4	SILTY SAND and SLAG with COKE/COAL BREEZE; dark gray; wet	
10	10.0			2.5		
		C-3				

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-215 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-215

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11				0.0	Same as Above	11.0	
12				0.0	SILTY COARSE SAND to ROUNDED/SUBROUNDED COARSE GRAVEL; gray, brown; wet (Native)	12.0	
13				0.0	SILTY FINE to MEDIUM SAND; light gray; wet		
14				0.0			
15		C-3	10.0	0.0			
16				0.0			
17				0.0			
18				0.0			
19				0.0			
20	20.0			0.0		20.0	
21					End of Boring at 20.0'		
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-215 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-216
COORDINATES: EAST: 1,338,317.441 NORTH: 729,494.018
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/14/2024	0.0 - 20.0	Cloudy, Rain, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1	C-1	4.8		0.0	COKE and SLAG FRAGMENTS; gray, dark gray; damp 0.5	
2				0.3	SILTY SAND and SLAG; bands of light gray, gray and brown	
3				0.0		
4				0.0		
5 5.0				1.2		
6	C-2	4.7	(6-7)	0.0		
7				0.4	Wet at 7'	
8				0.2		
9				0.0		
10 10.0				0.0		
	C-3				10.0	

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-216 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-216

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
11			(10-11)	0.0	SILTY FINE to MEDIUM SAND; gray, light gray; wet (Native)	
12				0.0		
13				0.0		
14				0.0		
15	C-3	10.0		0.0		
16				0.0		
17				0.0		
18				0.0		
19				0.0		
20	20.0			0.0	20.0	
					End of Boring at 20.0'	
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-216 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-217
COORDINATES: EAST: 1,338,208.969 NORTH: 729,692.736
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	**Split Spoon**	**Casing**	**Augers**	**Core Barrel**	**Date**	**Progress (Ft.)**	**Weather**	**Depth to Water (Ft.)**
Size (ID)				6"	11/15/2024	0.0 - 15.0	Cloudy, Rain, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1					1.5	COKE and COKE/COAL BREEZE; dark gray; damp 1.0	
2					18.0	SILTY SAND and SLAG FRAGMENTS	
3		C-1	5.0	(2-3)	4.4		
4					0.6		
5	5.0				0.4		
6				(5-6)	26.1	Wet at 6' 6.0	
7					29.0	SILT, little sand with wood fragments; odor; dark gray	
8		C-2	5.0		314.0	White granular material mixed in from 7.5-10'	
9					737.0		
10	10.0				1072.0		
		C-3				10.0	

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-217 SHEET 1 OF 2

Baker

Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation

SO NO.: 188511 BORING NO.: SB-217

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
11				297.0	SILTY SAND and SLAG FRAGMENTS; dark gray, black; wet; odor	
12				653.0	12.6	
13	C-3	5.0		83.2	SILTY FINE to MEDIUM SAND (Native); gray, light gray; wet; slight odor	
14				48.0		
15	15.0			12.1	15.0	
16					End of Boring at 15.0'	
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia

DRILLER: Arlen Little BORING NO.: SB-217 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-218
COORDINATES: EAST: 1,337,997.31 NORTH: 729,851.102
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/15/2024	0.0 - 20.0	Cloudy, Rain, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1					0.0	COKE FRAGMENTS and COKE/COAL BREEZE; gray; damp 1.0	
2					0.0	SILTY SAND and SLAG FRAGMENTS; brown, reddish-brown; damp	
		C-1	5.0				
3					0.3		
4					0.5		
5	5.0				0.0		
6					2.6	6.0	
7				(6-7)	1.6	COKE and SLAG with COKE/COAL BREEZE; black; damp to moist, wet at 7'	
		C-2	5.0				
8					0.6	8.5	
9					0.0	CLAYEY SILT, little fine sand and organics; gray; moist to wet	
10	10.0				0.0		
		C-3					

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-218 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-218

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
11				86.2	CLAYEY SILT, little fine sand and organics; gray; moist to wet; Tarry Material (Coal Tar) from 11.5-12.5'	
12				255.0		
13				19.2	13.0	
14				16.4	SILTY FINE to MEDIUM SAND (Native); gray, light gray; wet	
15		C-3	10.0	13.5		
16				0.0		
17				0.0		
18				0.0		
19				0.0		
20	20.0			0.0	20.0	
21					End of Boring at 20.0'	
22						
23						
24						
25						
26						
27						
28						
29						
30						

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-218 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-219
COORDINATES: EAST: 1,338,103.661 NORTH: 729,942.816
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/15/2024	0.0 - 20.0	Cloudy, Rain, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1					SILTY SAND, COKE and SLAG FRAGMENTS with COKE/COAL BREEZE	
2		C-1	3.5	0.0		
3				0.0		
4				0.0		
5	5.0			0.0		
6				0.0		
7		C-2	3.8	0.0		
8				2.8		
			(7.5-8.5)		Wet at 8.5' 8.5	
9				0.0	SILTY SAND and SLAG FRAGMENTS; reddish-brown, light gray; wet	
10	10.0			0.7		
		C-3				

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-219 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-219

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11				0.0	SILTY SAND and SLAG FRAGMENTS; reddish-brown, light gray; wet		
12				0.3			
13				0.5			
14				0.0			
15	C-3	10.0		0.0			
16				0.0		16.0	
					SILTY FINE to MEDIUM SAND (Native); tan; wet		
17				0.0			
18				0.0			
19				0.0			
20	20.0			0.0		20.0	
					End of Boring at 20.0'		
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-219 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-220
COORDINATES: EAST: 1,338,105.564 NORTH: 729,765.185
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/15/2024	0.0 - 20.0	Cloudy, Rain, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1	C-1	4.5		0.0	COKE FRAGMENTS and COKE/COAL BREEZE; gray; damp 0.5	
2				0.0	SANDY SILT and SLAG; brown, reddish-brown; damp	
3				0.0		
4				0.0		
5				0.0		
5.0						
6	C-2	2.4				
7						
8				0.0		
9				0.0		
10			(9-10)	0.0	Wet at 10'	
10.0	C-3					

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-220 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-220

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11				0.0	SANDY SILT and SLAG; brown, reddish-brown; wet	11.7	
12				0.0			
13				0.0	SANDY SILT, trace rock fragments and organics with tarry material (Coal Tar); black; wet	12.7	
14				0.0	SILTY FINE to MEDIUM SAND (Native); light gray; wet		
15		C-3	9.0	0.0			
16				0.0			
17				0.0			
18				0.0			
19				0.0			
20	20.0			0.0		20.0	
21					End of Boring at 20.0'		
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-220 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-221
COORDINATES: EAST: 1,338,210.296 NORTH: 729,905.449
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/15/2024	0.0 - 20.0	Cloudy, Rain, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
1					0.0	SILTY SAND, COKE and SLAG FRAGMENTS with COKE/COAL BREEZE; gray, brown; damp	1.0	
2					0.3	SILT, SAND, SLAG and COKE, little brick fragments; reddish-brown, brown, pink; damp		
		C-1	5.0					
3					1.0		3.0	
4					1.0	COKE/COAL BREEZE; gray; damp	4.0	
5	5.0				3.7	SILTY SAND and SLAG; light gray, tan, gray; damp to moist		
6					0.0			
7					0.3			
		C-2	4.6					
8					0.2			
9				(8-9)	0.9	Wet at 9'		
10	10.0				11.5			
		C-3						

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-221 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-221

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11				1.3	SILTY SAND and SLAG; light gray, tan, gray; damp to moist		
12				0.3			
13				0.0			
14				0.0		14.5	
15	C-3	10.0		0.0	SILTY FINE to MEDIUM SAND (Native); light gray; wet		
16				0.0			
17				0.0			
18				0.0			
19				0.0			
20	20.0			0.0		20.0	
					End of Boring at 20.0'		
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Arlen Little BORING NO.: SB-221 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-222
COORDINATES: EAST: 1,340,238.141 NORTH: 729,137.932
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/18/2024	0.0 - 18.0	Cloudy, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1	C-1	5.0		0.9	SILTY SAND, some rock and coke fragments, wood fragments from 0-0.5'	
2				0.0		
3				0.0		
4				0.0		
5				0.2	1.5 SILTY SAND with SLAG and ROCK FRAGMENTS; light gray; damp	
6	C-2	5.0	(5-6)	0.7	Wet at 6'	
7				0.0		
8				0.3		
9				3.7		
10				6.9	9.5 SILTY FINE SAND; light gray; wet (Native)	
	C-3					

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: SB-222 SHEET 1 OF 2

Baker

Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation

SO NO.: 188511 BORING NO.: SB-222

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11				0.0	SILTY FINE SAND; light gray; wet (Native)		
12				0.4		12.5	
13				0.5	SILTY, SANDY, CLAY and SHALE FRAGS.; light gray; dry	13.3	
14	C-3	8.0		0.5	BEDROCK (SHALE); light gray; dry		
15				0.3			
16				1.1			
17				0.2			
18	18.0			9.0		18.0	
19					End of Boring at 18.0'		
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia

DRILLER: Jeff Niswander BORING NO.: SB-222 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-223
COORDINATES: EAST: 1,340,283.434 NORTH: 729,015.859
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/18/2024	0.0 - 20.0	Cloudy, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1						SANDY SILT with COKE FRAGMENTS and COKE/COAL BREEZE, wood fragments from 0-1'; gray; damp	
2		C-1	3.0		0.0		
3					0.0		
4					0.0		
5	5.0				0.0	Brick at 5' 5.0	
6					0.1	CONCRETE; light gray; dry	
7		C-2	5.0		0.4		
8					0.0		
9					0.0	9.0	
10	10.0				1.5	SILTY SAND and SLAG FRAGMENTS; light gray, gray; damp to moist	
		C-3					

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: SB-223 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-223

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11				0.4	SILTY SAND and SLAG FRAGMENTS; light gray, gray; damp to moist		
12			(11-12)	0.4	Wet at 12'		
13				0.3			
14				0.0		14.0	
					COKE/COAL BREEZE	14.5	
15	C-3	10.0		1.9	SANDY SILT with ORGANICS (Native); black; wet	15.0	
					SILTY FINE to MEDIUM SAND; light gray; wet		
16				0.0			
17				0.0			
18				0.0			
19				0.0			
20	20.0			0.0		20.0	
					End of Boring at 20.0'		
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: SB-223 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-224
COORDINATES: EAST: 1,340,349.331 NORTH: 729,144.894
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/18/2024	0.0 - 24.0	Cloudy, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1				0.2	SILTY SAND, ROUNDED GRAVEL and ROCK FRAGMENTS, some white granular material from 1-2'; brown, light brown, white; damp	
2				1.2	Hard coring past 2' (compact slag) 2.0	
	C-1	5.0			SILTY SAND and SLAG; light gray, brown; damp	
3				11.9		
4			(3-4)	44.7		
5	5.0			27.5		
6			(5-6)	0.0	Wet at 6'	
7				0.0		
	C-2	4.4				
8				0.0		
9				0.0		
10	10.0			0.0		
	C-3					

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: SB-224 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-224

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
11					SILTY SAND and SLAG; light gray, brown; wet	
12						
13						
14				0.0		
15	C-3	6.6		0.0		
16				0.0		
17				0.0		
18				0.0		
19				0.0		
20	20.0			0.0	20.5	
21				0.0	SILT and FINE SAND, little organics; black; moist to wet (Native) 21.5	
22	C-4	4.0		0.0	SILTY FINE to MEDIUM SAND; light gray; wet	
23				1.2	23.2	
24	24.0			35.3	BEDROCK (SHALE); light gray; dry 24.0	
25					End of Boring at 24.0'	
26						
27						
28						
29						
30						

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: SB-224 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-225
COORDINATES: EAST: 1,340,339.118 NORTH: 728,897.644
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/18/2024	0.0 - 20.0	Cloudy, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1					SANDY SILT with COKE and BRICK FRAGMENTS; light brown, brown, gray; damp	
2				0.0		
	C-1	3.5				
3				0.0		
4				0.0		
5	5.0			0.0		
6				0.0		
7				0.0		
	C-2	5.0				
8				0.0		
9				0.7		
10	10.0			0.7		
	C-3					

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: SB-225 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-225

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11				0.2	Same As Above	11.0	
12			(11-12)	0.4	SANDY SILT with ROCK and COKE FRAGMENTS, little coke/coal breeze; brown, gray; wet at 12' hard white material at 12'		
13				0.0	SANDY SILT; black (Potential Dredge Material) from 12.5-13'		
14				0.0		14.0	
15		C-3	9.8	0.0	SILT and FINE SAND (Native); brown, reddish-brown; wet		
16				0.0		16.5	
17				0.0	SANDY SILT with ORGANICS; black; moist to wet	17.3	
18				0.0	SILTY FINE to MEDIUM SAND; light gray; wet		
19				0.0			
20	20.0			0.0		20.0	
					End of Boring at 20.0'		
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: SB-225 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-226
COORDINATES: EAST: 1,340,413.346 NORTH: 729,031.833
ELEVATION: SURFACE:

Rig: Mini Sonic Track Rig	Split Spoon	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)				6"	11/18/2024	0.0 - 24.0	Cloudy, 40s - 50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
BG/PS = Background/Point Source
ppm = parts per million

Depth (Ft.)	Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description (Ft.)	Elevation (Ft. MSL)
1	C-1	2.0		0.0	SANDY SILT with COKE and ROCK FRAGMENTS, little wood fragments; gray; dry to damp	
2						
3				0.0		
4				0.0		
5 5.0				0.0		
6	C-2	5.0		0.0		
7				0.0		
8				0.0		
9				0.0		
10 10.0				0.0	9.5 SILTY SAND and SLAG; light gray, tan; damp	
	C-3					

DRILLING CO. Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: SB-226 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING RECORD

PROJECT: Erie Coke Works Supplemental Investigation
SO NO.: 188511 BORING NO.: SB-226

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)		Sample Type & No.	Sample Recovery (Ft)	Sample Interval (Ft)	PID (ppm)	Visual Description	(Ft.)	Elevation (Ft. MSL)
11						SILTY SAND and SLAG; light gray, tan; damp		
12					0.0			
13		C-3	4.0		0.0			
14					0.0			
15					0.0			
16	16.0			(15-16)*	0.0	*Collect sample at moist zone, assumed groundwater. Lost recovery below 16'		
17								
18								
19					0.3		19.5	
20		C-4	6.0		0.0	SILTY FINE to MEDIUM SAND (Native); light gray; wet		
21					0.0			
22					0.5			
23					0.7	Cobble at 23.3'	23.3	
						SANDY, CLAYEY, SILT; light gray; moist	23.6	
24	24.0				9.1	BEDROCK (SHALE); light gray; dry	24.0	
25						End of Boring at 24.0'		
26								
27								
28								
29								
30								

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: SB-226 SHEET 2 OF 2

ATTACHMENT B

Laboratory Analytical Reports - Soil

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke Works
Workorder 3387420
Report ID 370143 on 11/27/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 13, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3387420001	SB-201-14	Solid	11/12/2024 09:50	11/13/2024 08:55	CBC	Collected By Client
3387420002	SB-203-10	Solid	11/12/2024 11:20	11/13/2024 08:55	CBC	Collected By Client
3387420003	SB-204-10	Solid	11/12/2024 12:05	11/13/2024 08:55	CBC	Collected By Client
3387420004	SB-206-14	Solid	11/12/2024 13:50	11/13/2024 08:55	CBC	Collected By Client
3387420005	SB-208-9.5	Solid	11/12/2024 14:40	11/13/2024 08:55	CBC	Collected By Client
3387420006	SB-210-9	Solid	11/12/2024 15:40	11/13/2024 08:55	CBC	Collected By Client
3387420007	SB-210-9D	Solid	11/12/2024 16:00	11/13/2024 08:55	CBC	Collected By Client
3387420008	SB-206-12	Solid	11/12/2024 13:45	11/13/2024 08:55	CBC	Collected By Client
3387420009	TB-1	Ground Water	11/12/2024 13:45	11/13/2024 08:55	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID		
3387420006	SB-210-9	**S1**	The Internal Standard Fluorobenzene response yielded -97.12%D (limits -50/+200%D) for the EPA method 8260 low level analysis.
		S2	The Internal Standard Chlorobenzene-d5 response yielded -97.21%D (limits -50/ +200%D) for the EPA method 8260 low level analysis.
		S3	The Internal Standard 1,4-Dichlorobenzene-d4 response yielded -97.85%D (limits -50/ +200%D) for the EPA method 8260 low level analysis.

Result Notations

Notation Ref.	
1	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Acenaphthene. The % Recovery was reported as 55.9 and the control limits were 61 to 105.
2	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Acenaphthylene. The % Recovery was reported as 50.5 and the control limits were 63 to 106.
3	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Acenaphthylene. The % Recovery was reported as 44.4 and the control limits were 63 to 106.
4	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Anthracene. The % Recovery was reported as 45.1 and the control limits were 60 to 107.
5	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Anthracene. The % Recovery was reported as 8.26 and the control limits were 60 to 107.
6	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Benzo(a)anthracene. The % Recovery was reported as -84.5 and the control limits were 61 to 113.
7	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Benzo(a)anthracene. The % Recovery was reported as -169 and the control limits were 61 to 113.
8	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Benzo(a)anthracene. The RPD was reported as 22.9 and the upper control limit is 22.
9	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Benzo(a)pyrene. The % Recovery was reported as -171 and the control limits were 68 to 121.
10	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Benzo(a)pyrene. The % Recovery was reported as -90.2 and the control limits were 68 to 121.
11	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Benzo(b)fluoranthene. The % Recovery was reported as -56.7 and the control limits were 64 to 115.
12	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Benzo(b)fluoranthene. The RPD was reported as 31.3 and the upper control limit is 28.
13	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Benzo(b)fluoranthene. The % Recovery was reported as -186 and the control limits were 64 to 115.
14	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Benzo(g,h,i)perylene. The % Recovery was reported as -68.3 and the control limits were 57 to 119.
15	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Benzo(g,h,i)perylene. The % Recovery was reported as -13 and the control limits were 57 to 119.
16	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Benzo(k)fluoranthene. The % Recovery was reported as 7.92 and the control limits were 63 to 116.
17	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Benzo(k)fluoranthene. The % Recovery was reported as 27.8 and the control limits were 63 to 116.
18	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Carbazole. The % Recovery was reported as 54.6 and the control limits were 66 to 117.
19	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Chrysene. The % Recovery was reported as -72.5 and the control limits were 65 to 113.

20	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Chrysene. The RPD was reported as 23 and the upper control limit is 20.
21	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Chrysene. The % Recovery was reported as -158 and the control limits were 65 to 113.
22	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Di-n-OCtylphthalate. The % Recovery was reported as 121 and the control limits were 80 to 120.
23	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Dibenzo(a,h)anthracene. The % Recovery was reported as 26.8 and the control limits were 59 to 116.
24	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Dibenzo(a,h)anthracene. The % Recovery was reported as 53.2 and the control limits were 59 to 116.
25	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Dibenzofuran. The % Recovery was reported as 58.3 and the control limits were 62 to 106.
26	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte 2,4-Dinitrophenol. The % Recovery was reported as 21 and the control limits were 28 to 135.
27	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte 2,4-Dinitrophenol. The % Recovery was reported as 16.5 and the control limits were 28 to 135.
28	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2,4-Dinitrotoluene. The % Recovery was reported as 121 and the control limits were 80 to 120.
29	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Fluoranthene. The % Recovery was reported as -366 and the control limits were 61 to 114.
30	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Fluoranthene. The % Recovery was reported as -456 and the control limits were 61 to 114.
31	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Fluorene. The % Recovery was reported as 57 and the control limits were 62 to 107.
32	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Fluorene. The % Recovery was reported as 38.6 and the control limits were 62 to 107.
33	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Hexachlorocyclopentadiene. The % Recovery was reported as 7.7 and the control limits were 20 to 124.
34	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Hexachlorocyclopentadiene. The % Recovery was reported as 7.43 and the control limits were 20 to 124.
35	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Hexachloroethane. The % Recovery was reported as 54.9 and the control limits were 57 to 101.
36	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Indeno(1,2,3-cd)pyrene. The % Recovery was reported as -44.4 and the control limits were 53 to 118.
37	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Indeno(1,2,3-cd)pyrene. The % Recovery was reported as 12.3 and the control limits were 53 to 118.
38	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte 2-Methyl-4,6-dinitrophenol. The % Recovery was reported as 29 and the control limits were 39 to 113.
39	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte 2-Methyl-4,6-dinitrophenol. The % Recovery was reported as 38.9 and the control limits were 39 to 113.

40	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 50.8 and the control limits were 60 to 102.
41	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 45.9 and the control limits were 60 to 102.
42	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 4-Nitroaniline. The % Recovery was reported as 123 and the control limits were 80 to 120.
43	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2-Nitrophenol. The % Recovery was reported as 124 and the control limits were 80 to 120.
44	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Phenanthrene. The % Recovery was reported as -19.1 and the control limits were 61 to 106.
45	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Phenanthrene. The RPD was reported as 30.6 and the upper control limit is 20.
46	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Phenanthrene. The % Recovery was reported as -129 and the control limits were 61 to 106.
47	The QC sample type MS for method SW846 8270E was outside the control limits for the analyte Pyrene. The % Recovery was reported as -241 and the control limits were 62 to 117.
48	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Pyrene. The RPD was reported as 23.9 and the upper control limit is 20.
49	The QC sample type MSD for method SW846 8270E was outside the control limits for the analyte Pyrene. The % Recovery was reported as -374 and the control limits were 62 to 117.
50	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
51	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Arsenic, Total. The % Recovery was reported as 69.6 and the control limits were 75 to 125.
52	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Barium, Total. The RPD was reported as 24 and the upper control limit is 20.
53	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Barium, Total. The % Recovery was reported as 180 and the control limits were 75 to 125.
54	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Chromium, Total. The % Recovery was reported as 62.9 and the control limits were 75 to 125.
55	The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.
56	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Chromium, Total. The % Recovery was reported as 64.4 and the control limits were 75 to 125.
57	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Lead, Total. The % Recovery was reported as 51.9 and the control limits were 75 to 125.
58	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Lead, Total. The % Recovery was reported as 37.2 and the control limits were 75 to 125.
59	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Potassium, Total. The % Recovery was reported as 139 and the control limits were 75 to 125.
60	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Potassium, Total. The % Recovery was reported as 249 and the control limits were 75 to 125.

61	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Potassium, Total. The RPD was reported as 34.3 and the upper control limit is 20.
62	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Sodium, Total. The % Recovery was reported as 144 and the control limits were 75 to 125.
63	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Sodium, Total. The RPD was reported as 25 and the upper control limit is 20.
64	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Vanadium, Total. The % Recovery was reported as 15.7 and the control limits were 75 to 125.
65	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Vanadium, Total. The % Recovery was reported as 27.5 and the control limits were 75 to 125.
66	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Zinc, Total. The % Recovery was reported as 65.3 and the control limits were 75 to 125.
67	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Zinc, Total. The % Recovery was reported as 48.3 and the control limits were 75 to 125.
68	The surrogate 1,2-Dichloroethane-d4 for method SW846 8260D was outside of control limits. The % Recovery was reported as 138 and the control limits were 56 to 124. This result was reported at a dilution of 1.
69	The QC sample type LCS for method SW846 8260D was outside the control limits for the analyte Freon 113. The % Recovery was reported as 112 and the control limits were 40 to 109.
70	The QC sample type LCS for method SW846 8260D was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 122 and the control limits were 70 to 118.
71	The CCV recovery yielded 27.58%D (limits +/-20%D) for method SW846 8260D for the analyte 1,2,3-Trichlorobenzene.
72	The CCV recovery yielded 35.68%D (limits +/-20%D) for method SW846 8260D for the analyte 1,2,4-Trichlorobenzene.
73	The QC sample type LCS for method SW846 8260D was outside the control limits for the analyte 1,2,4-Trichlorobenzene. The % Recovery was reported as 142 and the control limits were 63 to 132.
74	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Chlorodibromomethane. The % Recovery was reported as 72.9 and the control limits were 75 to 124.
75	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte 1,2-Dichlorobenzene. The % Recovery was reported as 69 and the control limits were 75 to 126.
76	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte 1,4-Dichlorobenzene. The % Recovery was reported as 69.1 and the control limits were 72 to 126.
77	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Freon 113. The % Recovery was reported as 118 and the control limits were 40 to 109.
78	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 139 and the control limits were 70 to 130.
79	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte 1,2,3-Trichlorobenzene. The % Recovery was reported as 43.4 and the control limits were 68 to 129.
80	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte 1,2,4-Trichlorobenzene. The % Recovery was reported as 53.1 and the control limits were 63 to 132.

Detected Results Summary

Client Sample ID	SB-201-14	Collected	11/12/2024 09:50
Lab Sample ID	3387420001	Lab Receipt	11/13/2024 08:55

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	14800	mg/kg	11.3	3.8	SW846 6010C	#
Arsenic, Total	15.0	mg/kg	2.3	0.75	SW846 6010C	#
Barium, Total	73.2	mg/kg	1.1	0.38	SW846 6010C	#
Beryllium, Total	0.70J	mg/kg	1.1	0.38	SW846 6010C	#
Cadmium, Total	0.89	mg/kg	0.57	0.19	SW846 6010C	#
Calcium, Total	11400	mg/kg	11.3	3.8	SW846 6010C	#
Chromium, Total	18.6	mg/kg	1.1	0.38	SW846 6010C	#
Cobalt, Total	23.1	mg/kg	1.1	0.38	SW846 6010C	#
Copper, Total	27.5	mg/kg	2.3	0.75	SW846 6010C	#
Iron, Total	32200	mg/kg	11.3	3.8	SW846 6010C	#
Lead, Total	16.1	mg/kg	2.3	0.75	SW846 6010C	#
Magnesium, Total	8280	mg/kg	11.3	3.8	SW846 6010C	#
Manganese, Total	309	mg/kg	1.1	0.38	SW846 6010C	#
Mercury, Total	0.053	mg/kg	0.052	0.017	SW846 7471B	#
Nickel, Total	27.5	mg/kg	2.3	0.75	SW846 6010C	#
Potassium, Total	2390	mg/kg	56.5	18.9	SW846 6010C	#
Selenium, Total	5.5J	mg/kg	5.7	1.9	SW846 6010C	#
Sodium, Total	115	mg/kg	56.5	18.9	SW846 6010C	#
Thallium, Total	4.0	mg/kg	3.4	1.1	SW846 6010C	#
Vanadium, Total	26.3	mg/kg	1.1	0.38	SW846 6010C	#
Zinc, Total	94.8	mg/kg	2.3	0.75	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	43.6J	ug/kg	199	33.9	SW846 8270E	#
2-Methylnaphthalene	462	ug/kg	99.6	16.9	SW846 8270E	#
Acenaphthene	1580	ug/kg	49.8	16.9	SW846 8270E	#
Acenaphthylene	1760	ug/kg	49.8	16.9	SW846 8270E	#
Acetophenone	106	ug/kg	99.6	16.9	SW846 8270E	#
Anthracene	4750	ug/kg	49.8	16.9	SW846 8270E	#
Benzo(a)anthracene	13900	ug/kg	9960	3390	SW846 8270E	#
Benzo(a)pyrene	14700	ug/kg	9960	3390	SW846 8270E	#
Benzo(b)fluoranthene	15000	ug/kg	9960	3390	SW846 8270E	#
Benzo(g,h,i)perylene	8550J	ug/kg	9960	3390	SW846 8270E	#
Benzo(k)fluoranthene	7970J	ug/kg	9960	3390	SW846 8270E	#
Biphenyl	168	ug/kg	99.6	16.9	SW846 8270E	#
Caprolactam	89.1J	ug/kg	199	38.8	SW846 8270E	#
Carbazole	2190	ug/kg	99.6	16.9	SW846 8270E	#
Chrysene	13800	ug/kg	9960	3390	SW846 8270E	#
Dibenzo(a,h)anthracene	2860	ug/kg	49.8	16.9	SW846 8270E	#
Dibenzofuran	1210	ug/kg	99.6	16.9	SW846 8270E	#
Fluoranthene	30900	ug/kg	9960	3390	SW846 8270E	#
Fluorene	2830	ug/kg	49.8	16.9	SW846 8270E	#
Hexachlorobutadiene	38.2J	ug/kg	99.6	16.9	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	8150J	ug/kg	9960	3390	SW846 8270E	#
mp-Cresol	81.5J	ug/kg	199	33.9	SW846 8270E	#
Naphthalene	1750	ug/kg	49.8	16.9	SW846 8270E	#
Phenanthrene	12100	ug/kg	9960	3390	SW846 8270E	#

Detected Results Summary

Sample - SB-201-14 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
SEMIVOLATILES (cont.)						
Pyrene	24500	ug/kg	9960	3390	SW846 8270E	#
VOLATILE ORGANICS						
1,3,5-Trimethylbenzene	13.3J	ug/kg	58.6	11.7	SW846 8260D	#
Benzene	305	ug/kg	58.6	13.5	SW846 8260D	#
Bromomethane	34.1J	ug/kg	58.6	22.9	SW846 8260D	#
Carbon Disulfide	18.1J	ug/kg	58.6	13.5	SW846 8260D	#
Methyl acetate	68.8J	ug/kg	117	18.8	SW846 8260D	#
Methyl cyclohexane	33.2J	ug/kg	58.6	17.6	SW846 8260D	#
mp-Xylene	68.3J	ug/kg	117	30.5	SW846 8260D	#
o-Xylene	19.8J	ug/kg	58.6	19.3	SW846 8260D	#
Toluene	116	ug/kg	58.6	13.5	SW846 8260D	#
Total Xylenes	88.0J	ug/kg	176	38.7	SW846 8260D	#
WET CHEMISTRY						
Moisture	11.9	%	0.1	0.01	S2540G-15	#
Total Solids	88.1	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-203-10	Collected	11/12/2024 11:20
Lab Sample ID	3387420002	Lab Receipt	11/13/2024 08:55

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	5830	mg/kg	24.6	8.2	SW846 6010C	#
Arsenic, Total	10.8	mg/kg	4.9	1.6	SW846 6010C	#
Barium, Total	95.0	mg/kg	2.5	0.82	SW846 6010C	#
Beryllium, Total	1.1J	mg/kg	2.5	0.82	SW846 6010C	#
Cadmium, Total	4.4	mg/kg	1.2	0.41	SW846 6010C	#
Calcium, Total	17300	mg/kg	24.6	8.2	SW846 6010C	#
Chromium, Total	36.0	mg/kg	2.5	0.82	SW846 6010C	#
Cobalt, Total	37.5	mg/kg	2.5	0.82	SW846 6010C	#
Copper, Total	54.0	mg/kg	4.9	1.6	SW846 6010C	#
Iron, Total	86000	mg/kg	24.6	8.2	SW846 6010C	#
Lead, Total	130	mg/kg	4.9	1.6	SW846 6010C	#
Magnesium, Total	2840	mg/kg	24.6	8.2	SW846 6010C	#
Manganese, Total	6230	mg/kg	2.5	0.82	SW846 6010C	#
Mercury, Total	0.65	mg/kg	0.062	0.020	SW846 7471B	#
Nickel, Total	16.6	mg/kg	4.9	1.6	SW846 6010C	#
Potassium, Total	737	mg/kg	123	41.0	SW846 6010C	#
Sodium, Total	269	mg/kg	123	41.0	SW846 6010C	#
Thallium, Total	3.5J	mg/kg	7.4	2.5	SW846 6010C	#
Vanadium, Total	49.6	mg/kg	2.5	0.82	SW846 6010C	#
Zinc, Total	1610	mg/kg	4.9	1.6	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	256J	ug/kg	947	161	SW846 8270E	#
2-Methylnaphthalene	7410	ug/kg	474	80.5	SW846 8270E	#
Acenaphthene	14900	ug/kg	237	80.5	SW846 8270E	#
Acenaphthylene	9080	ug/kg	237	80.5	SW846 8270E	#
Acetophenone	1690	ug/kg	474	80.5	SW846 8270E	#
Anthracene	22000	ug/kg	237	80.5	SW846 8270E	#
Benzo(a)anthracene	21800	ug/kg	237	80.5	SW846 8270E	#
Benzo(a)pyrene	19300	ug/kg	237	80.5	SW846 8270E	#
Benzo(b)fluoranthene	16800	ug/kg	237	80.5	SW846 8270E	#
Benzo(g,h,i)perylene	9040	ug/kg	237	80.5	SW846 8270E	#
Benzo(k)fluoranthene	16900	ug/kg	237	80.5	SW846 8270E	#
Biphenyl	2580	ug/kg	474	80.5	SW846 8270E	#
Carbazole	7510	ug/kg	474	80.5	SW846 8270E	#
Chrysene	22200	ug/kg	237	80.5	SW846 8270E	#
Dibenzo(a,h)anthracene	2640	ug/kg	237	80.5	SW846 8270E	#
Dibenzofuran	16500	ug/kg	474	80.5	SW846 8270E	#
Fluoranthene	67400	ug/kg	2370	805	SW846 8270E	#
Fluorene	31000	ug/kg	237	80.5	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	10100	ug/kg	237	80.5	SW846 8270E	#
mp-Cresol	482J	ug/kg	947	161	SW846 8270E	#
Naphthalene	188000	ug/kg	2370	805	SW846 8270E	#
Phenanthrene	96200	ug/kg	2370	805	SW846 8270E	#
Phenol	647J	ug/kg	947	161	SW846 8270E	#
Pyrene	65000	ug/kg	2370	805	SW846 8270E	#
VOLATILE ORGANICS						

Detected Results Summary

Sample - SB-203-10 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Benzene	3740	ug/kg	2760	635	SW846 8260D	#
Toluene	1190J	ug/kg	2760	635	SW846 8260D	#
WET CHEMISTRY						
Moisture	23.2	%	0.1	0.01	S2540G-15	#
Total Solids	76.8	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-204-10	Collected	11/12/2024 12:05
Lab Sample ID	3387420003	Lab Receipt	11/13/2024 08:55

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	5960	mg/kg	26.5	8.8	SW846 6010C	#
Arsenic, Total	25.5	mg/kg	5.3	1.8	SW846 6010C	#
Barium, Total	101	mg/kg	2.6	0.88	SW846 6010C	#
Beryllium, Total	1.5J	mg/kg	2.6	0.88	SW846 6010C	#
Cadmium, Total	2.7	mg/kg	1.3	0.44	SW846 6010C	#
Calcium, Total	27600	mg/kg	26.5	8.8	SW846 6010C	#
Chromium, Total	41.6	mg/kg	2.6	0.88	SW846 6010C	#
Cobalt, Total	42.4	mg/kg	2.6	0.88	SW846 6010C	#
Copper, Total	68.3	mg/kg	5.3	1.8	SW846 6010C	#
Iron, Total	84400	mg/kg	26.5	8.8	SW846 6010C	#
Lead, Total	199	mg/kg	5.3	1.8	SW846 6010C	#
Magnesium, Total	9470	mg/kg	26.5	8.8	SW846 6010C	#
Manganese, Total	3380	mg/kg	2.6	0.88	SW846 6010C	#
Mercury, Total	0.16	mg/kg	0.064	0.020	SW846 7471B	#
Nickel, Total	23.1	mg/kg	5.3	1.8	SW846 6010C	#
Potassium, Total	689	mg/kg	132	44.2	SW846 6010C	#
Selenium, Total	6.5J	mg/kg	13.2	4.4	SW846 6010C	#
Sodium, Total	274	mg/kg	132	44.2	SW846 6010C	#
Thallium, Total	7.7J	mg/kg	7.9	2.6	SW846 6010C	#
Vanadium, Total	54.3	mg/kg	2.6	0.88	SW846 6010C	#
Zinc, Total	281	mg/kg	5.3	1.8	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	6820	ug/kg	1050	179	SW846 8270E	#
2-Methylnaphthalene	216000	ug/kg	26300	4470	SW846 8270E	#
Acenaphthene	309000	ug/kg	13100	4470	SW846 8270E	#
Acenaphthylene	133000	ug/kg	13100	4470	SW846 8270E	#
Anthracene	377000	ug/kg	13100	4470	SW846 8270E	#
Benzo(a)anthracene	241000	ug/kg	13100	4470	SW846 8270E	#
Benzo(a)pyrene	145000	ug/kg	13100	4470	SW846 8270E	#
Benzo(b)fluoranthene	109000	ug/kg	13100	4470	SW846 8270E	#
Benzo(g,h,i)perylene	67600	ug/kg	13100	4470	SW846 8270E	#
Benzo(k)fluoranthene	116000	ug/kg	13100	4470	SW846 8270E	#
Biphenyl	61700	ug/kg	26300	4470	SW846 8270E	#
Carbazole	169000	ug/kg	26300	4470	SW846 8270E	#
Chrysene	229000	ug/kg	13100	4470	SW846 8270E	#
Dibenzo(a,h)anthracene	30000	ug/kg	263	89.3	SW846 8270E	#
Dibenzofuran	223000	ug/kg	26300	4470	SW846 8270E	#
Fluoranthene	896000	ug/kg	13100	4470	SW846 8270E	#
Fluorene	350000	ug/kg	13100	4470	SW846 8270E	#
Hexachlorobutadiene	154J	ug/kg	526	89.3	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	72100	ug/kg	13100	4470	SW846 8270E	#
mp-Cresol	4510	ug/kg	1050	179	SW846 8270E	#
Naphthalene	1330000	ug/kg	13100	4470	SW846 8270E	#
Phenanthrene	1040000	ug/kg	13100	4470	SW846 8270E	#
Phenol	5290	ug/kg	1050	179	SW846 8270E	#
Pyrene	542000	ug/kg	13100	4470	SW846 8270E	#

Detected Results Summary

Sample - SB-204-10 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	489J	ug/kg	781	195	SW846 8260D	#
1,3,5-Trimethylbenzene	356J	ug/kg	781	156	SW846 8260D	#
Benzene	16500	ug/kg	781	180	SW846 8260D	#
Ethylbenzene	1240	ug/kg	781	265	SW846 8260D	#
Methyl cyclohexane	305J	ug/kg	781	234	SW846 8260D	#
mp-Xylene	1010J	ug/kg	1560	406	SW846 8260D	#
o-Xylene	441J	ug/kg	781	258	SW846 8260D	#
Toluene	1150	ug/kg	781	180	SW846 8260D	#
Total Xylenes	1450J	ug/kg	2340	515	SW846 8260D	#
WET CHEMISTRY						
Moisture	28.2	%	0.1	0.01	S2540G-15	#
Total Solids	71.8	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-206-14	Collected	11/12/2024 13:50
Lab Sample ID	3387420004	Lab Receipt	11/13/2024 08:55

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	6460	mg/kg	12.9	4.3	SW846 6010C	#
Arsenic, Total	10	mg/kg	2.6	0.86	SW846 6010C	#
Barium, Total	43.2	mg/kg	1.3	0.43	SW846 6010C	#
Beryllium, Total	0.69J	mg/kg	1.3	0.43	SW846 6010C	#
Cadmium, Total	2.0	mg/kg	0.65	0.22	SW846 6010C	#
Calcium, Total	13200	mg/kg	12.9	4.3	SW846 6010C	#
Chromium, Total	18.5	mg/kg	1.3	0.43	SW846 6010C	#
Cobalt, Total	13.9	mg/kg	1.3	0.43	SW846 6010C	#
Copper, Total	35.9	mg/kg	2.6	0.86	SW846 6010C	#
Iron, Total	21300	mg/kg	12.9	4.3	SW846 6010C	#
Lead, Total	56.9	mg/kg	2.6	0.86	SW846 6010C	#
Magnesium, Total	6170	mg/kg	12.9	4.3	SW846 6010C	#
Manganese, Total	311	mg/kg	1.3	0.43	SW846 6010C	#
Mercury, Total	0.29	mg/kg	0.065	0.021	SW846 7471B	#
Nickel, Total	18.2	mg/kg	2.6	0.86	SW846 6010C	#
Potassium, Total	923	mg/kg	64.7	21.6	SW846 6010C	#
Selenium, Total	3.6J	mg/kg	6.5	2.2	SW846 6010C	#
Sodium, Total	119	mg/kg	64.7	21.6	SW846 6010C	#
Thallium, Total	3.0J	mg/kg	3.9	1.3	SW846 6010C	#
Vanadium, Total	14.0	mg/kg	1.3	0.43	SW846 6010C	#
Zinc, Total	149	mg/kg	2.6	0.86	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	3200	ug/kg	516	87.7	SW846 8270E	#
Acenaphthene	2370	ug/kg	258	87.7	SW846 8270E	#
Acenaphthylene	2810	ug/kg	258	87.7	SW846 8270E	#
Anthracene	6240	ug/kg	258	87.7	SW846 8270E	#
Benzo(a)anthracene	8580	ug/kg	258	87.7	SW846 8270E	#
Benzo(a)pyrene	6250	ug/kg	258	87.7	SW846 8270E	#
Benzo(b)fluoranthene	5550	ug/kg	258	87.7	SW846 8270E	#
Benzo(g,h,i)perylene	2760	ug/kg	258	87.7	SW846 8270E	#
Benzo(k)fluoranthene	5470	ug/kg	258	87.7	SW846 8270E	#
Biphenyl	418J	ug/kg	516	87.7	SW846 8270E	#
Carbazole	2130	ug/kg	516	87.7	SW846 8270E	#
Chrysene	8880	ug/kg	258	87.7	SW846 8270E	#
Dibenzo(a,h)anthracene	1140	ug/kg	258	87.7	SW846 8270E	#
Dibenzofuran	3200	ug/kg	516	87.7	SW846 8270E	#
Fluoranthene	20200	ug/kg	258	87.7	SW846 8270E	#
Fluorene	7610	ug/kg	258	87.7	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	3040	ug/kg	258	87.7	SW846 8270E	#
mp-Cresol	677J	ug/kg	1030	175	SW846 8270E	#
Naphthalene	9100	ug/kg	258	87.7	SW846 8270E	#
Phenanthrene	23700	ug/kg	258	87.7	SW846 8270E	#
Pyrene	13100	ug/kg	258	87.7	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	47.3J	ug/kg	59.8	15.0	SW846 8260D	#
1,3,5-Trimethylbenzene	17.6J	ug/kg	59.8	12.0	SW846 8260D	#

Detected Results Summary

Sample - SB-206-14 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Benzene	447	ug/kg	59.8	13.8	SW846 8260D	#
Bromomethane	28.2J	ug/kg	59.8	23.3	SW846 8260D	#
Isopropylbenzene	21.8J	ug/kg	59.8	13.2	SW846 8260D	#
Methyl acetate	76.7J	ug/kg	120	19.1	SW846 8260D	#
Methyl cyclohexane	34.4J	ug/kg	59.8	17.9	SW846 8260D	#
mp-Xylene	53.1J	ug/kg	120	31.1	SW846 8260D	#
o-Xylene	23.5J	ug/kg	59.8	19.7	SW846 8260D	#
Toluene	37.8J	ug/kg	59.8	13.8	SW846 8260D	#
Total Xylenes	76.6J	ug/kg	179	39.5	SW846 8260D	#
WET CHEMISTRY						
Moisture	29.5	%	0.1	0.01	S2540G-15	#
Total Solids	70.5	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-208-9.5	Collected	11/12/2024 14:40
Lab Sample ID	3387420005	Lab Receipt	11/13/2024 08:55

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	7760	mg/kg	12.6	4.2	SW846 6010C	#
Arsenic, Total	10.7	mg/kg	2.5	0.84	SW846 6010C	#
Barium, Total	83.1	mg/kg	1.3	0.42	SW846 6010C	#
Beryllium, Total	1.2J	mg/kg	1.3	0.42	SW846 6010C	#
Cadmium, Total	1.3	mg/kg	0.63	0.21	SW846 6010C	#
Calcium, Total	41200	mg/kg	12.6	4.2	SW846 6010C	#
Chromium, Total	17.1	mg/kg	1.3	0.42	SW846 6010C	#
Cobalt, Total	19.6	mg/kg	1.3	0.42	SW846 6010C	#
Copper, Total	47.9	mg/kg	2.5	0.84	SW846 6010C	#
Iron, Total	29600	mg/kg	12.6	4.2	SW846 6010C	#
Lead, Total	34.7	mg/kg	2.5	0.84	SW846 6010C	#
Magnesium, Total	7410	mg/kg	12.6	4.2	SW846 6010C	#
Manganese, Total	1070	mg/kg	1.3	0.42	SW846 6010C	#
Mercury, Total	0.18	mg/kg	0.064	0.021	SW846 7471B	#
Nickel, Total	26.1	mg/kg	2.5	0.84	SW846 6010C	#
Potassium, Total	1960	mg/kg	63.0	21.0	SW846 6010C	#
Selenium, Total	5.6J	mg/kg	6.3	2.1	SW846 6010C	#
Sodium, Total	251	mg/kg	63.0	21.0	SW846 6010C	#
Thallium, Total	2.7J	mg/kg	3.8	1.3	SW846 6010C	#
Vanadium, Total	14.5	mg/kg	1.3	0.42	SW846 6010C	#
Zinc, Total	138	mg/kg	2.5	0.84	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	647	ug/kg	524	89.0	SW846 8270E	#
Acenaphthene	3200	ug/kg	262	89.0	SW846 8270E	#
Acenaphthylene	2200	ug/kg	262	89.0	SW846 8270E	#
Anthracene	7200	ug/kg	262	89.0	SW846 8270E	#
Benzo(a)anthracene	9540	ug/kg	262	89.0	SW846 8270E	#
Benzo(a)pyrene	7980	ug/kg	262	89.0	SW846 8270E	#
Benzo(b)fluoranthene	6920	ug/kg	262	89.0	SW846 8270E	#
Benzo(g,h,i)perylene	3870	ug/kg	262	89.0	SW846 8270E	#
Benzo(k)fluoranthene	6960	ug/kg	262	89.0	SW846 8270E	#
Biphenyl	154J	ug/kg	524	89.0	SW846 8270E	#
Carbazole	1870	ug/kg	524	89.0	SW846 8270E	#
Chrysene	9630	ug/kg	262	89.0	SW846 8270E	#
Dibenzo(a,h)anthracene	1190	ug/kg	262	89.0	SW846 8270E	#
Dibenzofuran	1310	ug/kg	524	89.0	SW846 8270E	#
Fluoranthene	25700	ug/kg	262	89.0	SW846 8270E	#
Fluorene	3720	ug/kg	262	89.0	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	4250	ug/kg	262	89.0	SW846 8270E	#
Naphthalene	2300	ug/kg	262	89.0	SW846 8270E	#
Phenanthrene	19700	ug/kg	262	89.0	SW846 8270E	#
Pyrene	17900	ug/kg	262	89.0	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	33.2J	ug/kg	66.9	16.7	SW846 8260D	#
Benzene	1190	ug/kg	66.9	15.4	SW846 8260D	#
Bromomethane	26.5J	ug/kg	66.9	26.1	SW846 8260D	#

Detected Results Summary

Sample - SB-208-9.5 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Carbon Disulfide	17.2J	ug/kg	66.9	15.4	SW846 8260D	#
Cyclohexane	22.4J	ug/kg	66.9	19.4	SW846 8260D	#
Ethylbenzene	52.5J	ug/kg	66.9	22.7	SW846 8260D	#
Isopropylbenzene	15.2J	ug/kg	66.9	14.7	SW846 8260D	#
Methyl acetate	123J	ug/kg	134	21.4	SW846 8260D	#
Methyl cyclohexane	87.0	ug/kg	66.9	20.1	SW846 8260D	#
mp-Xylene	95.9J	ug/kg	134	34.8	SW846 8260D	#
o-Xylene	40.3J	ug/kg	66.9	22.1	SW846 8260D	#
Toluene	225	ug/kg	66.9	15.4	SW846 8260D	#
Total Xylenes	136J	ug/kg	201	44.1	SW846 8260D	#
WET CHEMISTRY						
Moisture	25.1	%	0.1	0.01	S2540G-15	#
Total Solids	74.9	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-210-9	Collected	11/12/2024 15:40
Lab Sample ID	3387420006	Lab Receipt	11/13/2024 08:55

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	8770	mg/kg	12.2	4.1	SW846 6010C	#
Arsenic, Total	7.3	mg/kg	2.4	0.82	SW846 6010C	#
Barium, Total	103	mg/kg	1.2	0.41	SW846 6010C	#
Beryllium, Total	1.3	mg/kg	1.2	0.41	SW846 6010C	#
Cadmium, Total	1.4	mg/kg	0.61	0.20	SW846 6010C	#
Calcium, Total	62900	mg/kg	12.2	4.1	SW846 6010C	#
Chromium, Total	17.0	mg/kg	1.2	0.41	SW846 6010C	#
Cobalt, Total	14.8	mg/kg	1.2	0.41	SW846 6010C	#
Copper, Total	37.7	mg/kg	2.4	0.82	SW846 6010C	#
Iron, Total	30300	mg/kg	12.2	4.1	SW846 6010C	#
Lead, Total	53.4	mg/kg	2.4	0.82	SW846 6010C	#
Magnesium, Total	10800	mg/kg	12.2	4.1	SW846 6010C	#
Manganese, Total	1090	mg/kg	1.2	0.41	SW846 6010C	#
Mercury, Total	0.19	mg/kg	0.060	0.019	SW846 7471B	#
Nickel, Total	10.9	mg/kg	2.4	0.82	SW846 6010C	#
Potassium, Total	1740	mg/kg	61.1	20.4	SW846 6010C	#
Selenium, Total	7.2	mg/kg	6.1	2.0	SW846 6010C	#
Sodium, Total	480	mg/kg	61.1	20.4	SW846 6010C	#
Thallium, Total	3.4J	mg/kg	3.7	1.2	SW846 6010C	#
Vanadium, Total	14.7	mg/kg	1.2	0.41	SW846 6010C	#
Zinc, Total	241	mg/kg	2.4	0.82	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	216J	ug/kg	450	76.5	SW846 8270E	#
Acenaphthene	157J	ug/kg	225	76.5	SW846 8270E	#
Acenaphthylene	601	ug/kg	225	76.5	SW846 8270E	#
Anthracene	724	ug/kg	225	76.5	SW846 8270E	#
Benzo(a)anthracene	1380	ug/kg	225	76.5	SW846 8270E	#
Benzo(a)pyrene	1380	ug/kg	225	76.5	SW846 8270E	#
Benzo(b)fluoranthene	1210	ug/kg	225	76.5	SW846 8270E	#
Benzo(g,h,i)perylene	774	ug/kg	225	76.5	SW846 8270E	#
Benzo(k)fluoranthene	1170	ug/kg	225	76.5	SW846 8270E	#
Carbazole	144J	ug/kg	450	76.5	SW846 8270E	#
Chrysene	1450	ug/kg	225	76.5	SW846 8270E	#
Dibenzo(a,h)anthracene	227	ug/kg	225	76.5	SW846 8270E	#
Dibenzofuran	134J	ug/kg	450	76.5	SW846 8270E	#
Fluoranthene	3260	ug/kg	225	76.5	SW846 8270E	#
Fluorene	255	ug/kg	225	76.5	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	802	ug/kg	225	76.5	SW846 8270E	#
Naphthalene	452	ug/kg	225	76.5	SW846 8270E	#
Phenanthrene	2080	ug/kg	225	76.5	SW846 8270E	#
Pyrene	2270	ug/kg	225	76.5	SW846 8270E	#
VOLATILE ORGANICS						
Bromomethane	27.4	ug/kg	2.9	0.75	SW846 8260D	#
WET CHEMISTRY						
Moisture	19.1	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Sample - SB-210-9 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Total Solids	80.9	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-210-9D	Collected	11/12/2024 16:00
Lab Sample ID	3387420007	Lab Receipt	11/13/2024 08:55

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	5780	mg/kg	12.9	4.3	SW846 6010C	#
Arsenic, Total	6.2	mg/kg	2.6	0.86	SW846 6010C	#
Barium, Total	70.9	mg/kg	1.3	0.43	SW846 6010C	#
Beryllium, Total	0.94J	mg/kg	1.3	0.43	SW846 6010C	#
Cadmium, Total	1.2	mg/kg	0.64	0.21	SW846 6010C	#
Calcium, Total	44600	mg/kg	12.9	4.3	SW846 6010C	#
Chromium, Total	18.9	mg/kg	1.3	0.43	SW846 6010C	#
Cobalt, Total	12.4	mg/kg	1.3	0.43	SW846 6010C	#
Copper, Total	50.1	mg/kg	2.6	0.86	SW846 6010C	#
Iron, Total	27900	mg/kg	12.9	4.3	SW846 6010C	#
Lead, Total	41.5	mg/kg	2.6	0.86	SW846 6010C	#
Magnesium, Total	6970	mg/kg	12.9	4.3	SW846 6010C	#
Manganese, Total	887	mg/kg	1.3	0.43	SW846 6010C	#
Mercury, Total	0.20	mg/kg	0.060	0.019	SW846 7471B	#
Nickel, Total	10.9	mg/kg	2.6	0.86	SW846 6010C	#
Potassium, Total	801	mg/kg	64.3	21.5	SW846 6010C	#
Selenium, Total	6.3J	mg/kg	6.4	2.1	SW846 6010C	#
Sodium, Total	241	mg/kg	64.3	21.5	SW846 6010C	#
Thallium, Total	2.8J	mg/kg	3.9	1.3	SW846 6010C	#
Vanadium, Total	12.7	mg/kg	1.3	0.43	SW846 6010C	#
Zinc, Total	337	mg/kg	2.6	0.86	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	220J	ug/kg	467	79.5	SW846 8270E	#
Acenaphthene	120J	ug/kg	234	79.5	SW846 8270E	#
Acenaphthylene	842	ug/kg	234	79.5	SW846 8270E	#
Anthracene	937	ug/kg	234	79.5	SW846 8270E	#
Benzo(a)anthracene	2020	ug/kg	234	79.5	SW846 8270E	#
Benzo(a)pyrene	2240	ug/kg	234	79.5	SW846 8270E	#
Benzo(b)fluoranthene	2150	ug/kg	234	79.5	SW846 8270E	#
Benzo(g,h,i)perylene	1350	ug/kg	234	79.5	SW846 8270E	#
Benzo(k)fluoranthene	1880	ug/kg	234	79.5	SW846 8270E	#
Carbazole	207J	ug/kg	467	79.5	SW846 8270E	#
Chrysene	2160	ug/kg	234	79.5	SW846 8270E	#
Dibenzo(a,h)anthracene	381	ug/kg	234	79.5	SW846 8270E	#
Dibenzofuran	137J	ug/kg	467	79.5	SW846 8270E	#
Fluoranthene	4560	ug/kg	234	79.5	SW846 8270E	#
Fluorene	258	ug/kg	234	79.5	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	1380	ug/kg	234	79.5	SW846 8270E	#
Naphthalene	629	ug/kg	234	79.5	SW846 8270E	#
Phenanthrene	2420	ug/kg	234	79.5	SW846 8270E	#
Pyrene	3200	ug/kg	234	79.5	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	1.1J	ug/kg	3.2	0.79	SW846 8260D	#
Methylene Chloride	1.4J	ug/kg	3.2	1.2	SW846 8260D	#
WET CHEMISTRY						

Detected Results Summary

Sample - SB-210-9D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Moisture	23.6	%	0.1	0.01	S2540G-15	#
Total Solids	76.4	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-206-12	Collected	11/12/2024 13:45
Lab Sample ID	3387420008	Lab Receipt	11/13/2024 08:55

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	7820	mg/kg	14.0	4.7	SW846 6010C	#
Arsenic, Total	8.2	mg/kg	2.8	0.93	SW846 6010C	#
Barium, Total	67.0	mg/kg	1.4	0.47	SW846 6010C	#
Beryllium, Total	1.1J	mg/kg	1.4	0.47	SW846 6010C	#
Cadmium, Total	1.9	mg/kg	0.70	0.23	SW846 6010C	#
Calcium, Total	32600	mg/kg	14.0	4.7	SW846 6010C	#
Chromium, Total	19.2	mg/kg	1.4	0.47	SW846 6010C	#
Cobalt, Total	19.9	mg/kg	1.4	0.47	SW846 6010C	#
Copper, Total	59.5	mg/kg	2.8	0.93	SW846 6010C	#
Iron, Total	34300	mg/kg	14.0	4.7	SW846 6010C	#
Lead, Total	63.4	mg/kg	2.8	0.93	SW846 6010C	#
Magnesium, Total	11900	mg/kg	14.0	4.7	SW846 6010C	#
Manganese, Total	1050	mg/kg	1.4	0.47	SW846 6010C	#
Mercury, Total	0.31	mg/kg	0.068	0.022	SW846 7471B	#
Nickel, Total	17.4	mg/kg	2.8	0.93	SW846 6010C	#
Potassium, Total	765	mg/kg	70.0	23.4	SW846 6010C	#
Selenium, Total	6.6J	mg/kg	7.0	2.3	SW846 6010C	#
Sodium, Total	178	mg/kg	70.0	23.4	SW846 6010C	#
Thallium, Total	4.6	mg/kg	4.2	1.4	SW846 6010C	#
Vanadium, Total	12.2	mg/kg	1.4	0.47	SW846 6010C	#
Zinc, Total	211	mg/kg	2.8	0.93	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	597J	ug/kg	1190	201	SW846 8270E	#
2-Methylnaphthalene	6560	ug/kg	593	101	SW846 8270E	#
Acenaphthene	11700	ug/kg	296	101	SW846 8270E	#
Acenaphthylene	1830	ug/kg	296	101	SW846 8270E	#
Acetophenone	143J	ug/kg	593	101	SW846 8270E	#
Anthracene	7030	ug/kg	296	101	SW846 8270E	#
Benzo(a)anthracene	8000	ug/kg	296	101	SW846 8270E	#
Benzo(a)pyrene	6960	ug/kg	296	101	SW846 8270E	#
Benzo(b)fluoranthene	6390	ug/kg	296	101	SW846 8270E	#
Benzo(g,h,i)perylene	3410	ug/kg	296	101	SW846 8270E	#
Benzo(k)fluoranthene	5790	ug/kg	296	101	SW846 8270E	#
Biphenyl	1340	ug/kg	593	101	SW846 8270E	#
Carbazole	9320	ug/kg	593	101	SW846 8270E	#
Chrysene	8350	ug/kg	296	101	SW846 8270E	#
Dibenzo(a,h)anthracene	1100	ug/kg	296	101	SW846 8270E	#
Dibenzofuran	8590	ug/kg	593	101	SW846 8270E	#
Fluoranthene	21600	ug/kg	296	101	SW846 8270E	#
Fluorene	13500	ug/kg	296	101	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	3830	ug/kg	296	101	SW846 8270E	#
mp-Cresol	413J	ug/kg	1190	201	SW846 8270E	#
Naphthalene	193000	ug/kg	2960	1010	SW846 8270E	#
Phenanthrene	33100	ug/kg	296	101	SW846 8270E	#
Phenol	572J	ug/kg	1190	201	SW846 8270E	#
Pyrene	14300	ug/kg	296	101	SW846 8270E	#

Detected Results Summary

Sample - SB-206-12 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	2050J	ug/kg	3840	959	SW846 8260D	#
Benzene	62000	ug/kg	3840	882	SW846 8260D	#
Ethylbenzene	3470J	ug/kg	3840	1300	SW846 8260D	#
WET CHEMISTRY						
Moisture	33.8	%	0.1	0.01	S2540G-15	#
Total Solids	66.2	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	TB-1	Collected	11/12/2024 13:45
Lab Sample ID	3387420009	Lab Receipt	11/13/2024 08:55

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS						
Chloromethane	0.38J	ug/L	1.0	0.31	SW846 8260D	#
trans-1,3-Dichloropropene	0.38J	ug/L	1.0	0.29	SW846 8260D	#

Results

Client Sample ID	SB-201-14	Collected	11/12/2024 09:50
Lab Sample ID	3387420001	Lab Receipt	11/13/2024 08:55

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	14800		mg/kg	11.3	3.8	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Antimony, Total	ND	ND	mg/kg	2.3	0.75	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Arsenic, Total	15.0		mg/kg	2.3	0.75	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Barium, Total	73.2		mg/kg	1.1	0.38	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Beryllium, Total	0.70J	J	mg/kg	1.1	0.38	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Cadmium, Total	0.89		mg/kg	0.57	0.19	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Calcium, Total	11400		mg/kg	11.3	3.8	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Chromium, Total	18.6		mg/kg	1.1	0.38	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Cobalt, Total	23.1		mg/kg	1.1	0.38	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Copper, Total	27.5		mg/kg	2.3	0.75	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Iron, Total	32200		mg/kg	11.3	3.8	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Lead, Total	16.1		mg/kg	2.3	0.75	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Magnesium, Total	8280		mg/kg	11.3	3.8	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Manganese, Total	309		mg/kg	1.1	0.38	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Mercury, Total	0.053		mg/kg	0.052	0.017	SW846 7471B	1	11/26/2024 09:48	JMS	F
Nickel, Total	27.5		mg/kg	2.3	0.75	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Potassium, Total	2390		mg/kg	56.5	18.9	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Selenium, Total	5.5J	J	mg/kg	5.7	1.9	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Silver, Total	ND	ND	mg/kg	0.57	0.19	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Sodium, Total	115		mg/kg	56.5	18.9	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Thallium, Total	4.0		mg/kg	3.4	1.1	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Vanadium, Total	26.3		mg/kg	1.1	0.38	SW846 6010C	1	11/19/2024 09:45	MSY	F1
Zinc, Total	94.8		mg/kg	2.3	0.75	SW846 6010C	1	11/19/2024 09:45	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
1,4-Dioxane	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	199	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	199	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	199	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	199	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
2,4-Dimethylphenol	43.6J	J	ug/kg	199	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
2,4-Dinitrophenol	ND	ND,26,27	ug/kg	398	197	SW846 8270E	1	11/18/2024 13:48	S7M	F
2,4-Dinitrotoluene	ND	ND,28	ug/kg	99.6	19.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	99.6	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
2-Chlorophenol	ND	ND	ug/kg	199	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,38,39	ug/kg	199	49.8	SW846 8270E	1	11/18/2024 13:48	S7M	F
2-Methylnaphthalene	462		ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
2-Nitroaniline	ND	ND	ug/kg	199	22.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
2-Nitrophenol	ND	ND,43	ug/kg	199	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	199	30.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
3-Nitroaniline	ND	ND	ug/kg	199	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F

Results

Client Sample ID	SB-201-14	Collected	11/12/2024 09:50
Lab Sample ID	3387420001	Lab Receipt	11/13/2024 08:55

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloro-3-methylphenol	ND	ND	ug/kg	199	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
4-Chloroaniline	ND	ND	ug/kg	199	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
4-Nitroaniline	ND	ND,42	ug/kg	199	28.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
4-Nitrophenol	ND	ND	ug/kg	199	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Acenaphthene	1580	1	ug/kg	49.8	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Acenaphthylene	1760	2,3	ug/kg	49.8	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Acetophenone	106		ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Anthracene	4750	4,5	ug/kg	49.8	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Atrazine	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Benzaldehyde	ND	ND	ug/kg	199	19.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Benzo(a)anthracene	13900	6,7,8	ug/kg	9960	3390	SW846 8270E	200	11/21/2024 03:13	M1O	F
Benzo(a)pyrene	14700	9,10	ug/kg	9960	3390	SW846 8270E	200	11/21/2024 03:13	M1O	F
Benzo(b)fluoranthene	15000	11,12,13	ug/kg	9960	3390	SW846 8270E	200	11/21/2024 03:13	M1O	F
Benzo(g,h,i)perylene	8550J	J,14,15	ug/kg	9960	3390	SW846 8270E	200	11/21/2024 03:13	M1O	F
Benzo(k)fluoranthene	7970J	J,16,17	ug/kg	9960	3390	SW846 8270E	200	11/21/2024 03:13	M1O	F
Biphenyl	168		ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	99.6	21.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Caprolactam	89.1J	J	ug/kg	199	38.8	SW846 8270E	1	11/18/2024 13:48	S7M	F
Carbazole	2190	18	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Chrysene	13800	19,20,21	ug/kg	9960	3390	SW846 8270E	200	11/21/2024 03:13	M1O	F
Dibenzo(a,h)anthracene	2860	23,24	ug/kg	49.8	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Dibenzofuran	1210	25	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Diethylphthalate	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Dimethylphthalate	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	99.6	34.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Di-n-Octylphthalate	ND	ND,22	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Fluoranthene	30900	29,30	ug/kg	9960	3390	SW846 8270E	200	11/21/2024 03:13	M1O	F
Fluorene	2830	31,32	ug/kg	49.8	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Hexachlorobutadiene	38.2J	J	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Hexachlorocyclopentadiene	ND	ND,33,34	ug/kg	199	29.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Hexachloroethane	ND	ND,35	ug/kg	99.6	22.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Indeno(1,2,3-cd)pyrene	8150J	J,36,37	ug/kg	9960	3390	SW846 8270E	200	11/21/2024 03:13	M1O	F
Isophorone	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
mp-Cresol	81.5J	J	ug/kg	199	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Naphthalene	1750	40,41	ug/kg	49.8	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Nitrobenzene	ND	ND	ug/kg	99.6	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	99.6	16.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
o-Cresol	ND	ND	ug/kg	199	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Pentachlorophenol	ND	ND	ug/kg	199	48.8	SW846 8270E	1	11/18/2024 13:48	S7M	F
Phenanthrene	12100	44,45,46	ug/kg	9960	3390	SW846 8270E	200	11/21/2024 03:13	M1O	F

Results

Client Sample ID	SB-201-14	Collected	11/12/2024 09:50
Lab Sample ID	3387420001	Lab Receipt	11/13/2024 08:55

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Phenol	ND	ND	ug/kg	199	33.9	SW846 8270E	1	11/18/2024 13:48	S7M	F
Pyrene	24500	47,48,49	ug/kg	9960	3390	SW846 8270E	200	11/21/2024 03:13	M1O	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	92.2%	19 – 132	11/18/2024 13:48	
2-Fluorobiphenyl	321-60-8	76.8%	40 – 110	11/18/2024 13:48	
2-Fluorophenol	367-12-4	73%	26 – 116	11/18/2024 13:48	
Nitrobenzene-d5	4165-60-0	81.9%	38 – 112	11/18/2024 13:48	
Phenol-d5	4165-62-2	72.9%	35 – 111	11/18/2024 13:48	
Terphenyl-d14	98904-43-9	93.1%	45 – 126	11/18/2024 13:48	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	58.6	12.9	SW846 8260D	50	11/15/2024 21:38	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	58.6	19.9	SW846 8260D	50	11/15/2024 21:38	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	58.6	19.3	SW846 8260D	50	11/15/2024 21:38	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	58.6	16.4	SW846 8260D	50	11/15/2024 21:38	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	58.6	17.0	SW846 8260D	50	11/15/2024 21:38	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/kg	117	54.5	SW846 8260D	50	11/15/2024 21:38	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	117	35.2	SW846 8260D	50	11/15/2024 21:38	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	117	48.1	SW846 8260D	50	11/15/2024 21:38	BST	A
1,2,4-Trimethylbenzene	ND	ND	ug/kg	58.6	14.7	SW846 8260D	50	11/15/2024 21:38	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	410	88.0	SW846 8260D	50	11/15/2024 21:38	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	58.6	16.4	SW846 8260D	50	11/15/2024 21:38	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	58.6	22.3	SW846 8260D	50	11/15/2024 21:38	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	58.6	18.8	SW846 8260D	50	11/15/2024 21:38	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	117	26.4	SW846 8260D	50	11/15/2024 21:38	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	58.6	14.1	SW846 8260D	50	11/15/2024 21:38	BST	A
1,3,5-Trimethylbenzene	13.3J	J	ug/kg	58.6	11.7	SW846 8260D	50	11/15/2024 21:38	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	58.6	14.7	SW846 8260D	50	11/15/2024 21:38	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	58.6	15.8	SW846 8260D	50	11/15/2024 21:38	BST	A
2-Butanone	ND	ND	ug/kg	586	106	SW846 8260D	50	11/15/2024 21:38	BST	A
2-Hexanone	ND	ND	ug/kg	293	76.2	SW846 8260D	50	11/15/2024 21:38	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	293	88.0	SW846 8260D	50	11/15/2024 21:38	BST	A
Acetone	ND	ND	ug/kg	586	182	SW846 8260D	50	11/15/2024 21:38	BST	A
Benzene	305		ug/kg	58.6	13.5	SW846 8260D	50	11/15/2024 21:38	BST	A
Bromochloromethane	ND	ND	ug/kg	58.6	18.8	SW846 8260D	50	11/15/2024 21:38	BST	A
Bromodichloromethane	ND	ND	ug/kg	58.6	15.8	SW846 8260D	50	11/15/2024 21:38	BST	A
Bromoform	ND	ND	ug/kg	58.6	23.5	SW846 8260D	50	11/15/2024 21:38	BST	A
Bromomethane	34.1J	J	ug/kg	58.6	22.9	SW846 8260D	50	11/15/2024 21:38	BST	A
Carbon Disulfide	18.1J	J	ug/kg	58.6	13.5	SW846 8260D	50	11/15/2024 21:38	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	58.6	18.2	SW846 8260D	50	11/15/2024 21:38	BST	A
Chlorobenzene	ND	ND	ug/kg	58.6	11.1	SW846 8260D	50	11/15/2024 21:38	BST	A
Chlorodibromomethane	ND	ND	ug/kg	58.6	26.4	SW846 8260D	50	11/15/2024 21:38	BST	A

Results

Client Sample ID	SB-201-14	Collected	11/12/2024 09:50
Lab Sample ID	3387420001	Lab Receipt	11/13/2024 08:55

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroethane	ND	ND	ug/kg	58.6	19.3	SW846 8260D	50	11/15/2024 21:38	BST	A
Chloroform	ND	ND	ug/kg	58.6	12.3	SW846 8260D	50	11/15/2024 21:38	BST	A
Chloromethane	ND	ND	ug/kg	58.6	18.2	SW846 8260D	50	11/15/2024 21:38	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	58.6	18.8	SW846 8260D	50	11/15/2024 21:38	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	58.6	18.2	SW846 8260D	50	11/15/2024 21:38	BST	A
Cyclohexane	ND	ND	ug/kg	58.6	17.0	SW846 8260D	50	11/15/2024 21:38	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	58.6	19.3	SW846 8260D	50	11/15/2024 21:38	BST	A
Ethylbenzene	ND	ND	ug/kg	58.6	19.9	SW846 8260D	50	11/15/2024 21:38	BST	A
Freon 113	ND	ND	ug/kg	58.6	15.2	SW846 8260D	50	11/15/2024 21:38	BST	A
Isopropylbenzene	ND	ND	ug/kg	58.6	12.9	SW846 8260D	50	11/15/2024 21:38	BST	A
Methyl acetate	68.8J	J	ug/kg	117	18.8	SW846 8260D	50	11/15/2024 21:38	BST	A
Methyl cyclohexane	33.2J	J	ug/kg	58.6	17.6	SW846 8260D	50	11/15/2024 21:38	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	58.6	19.3	SW846 8260D	50	11/15/2024 21:38	BST	A
Methylene Chloride	ND	ND	ug/kg	58.6	26.4	SW846 8260D	50	11/15/2024 21:38	BST	A
mp-Xylene	68.3J	J	ug/kg	117	30.5	SW846 8260D	50	11/15/2024 21:38	BST	A
o-Xylene	19.8J	J	ug/kg	58.6	19.3	SW846 8260D	50	11/15/2024 21:38	BST	A
Styrene	ND	ND	ug/kg	58.6	14.1	SW846 8260D	50	11/15/2024 21:38	BST	A
Tetrachloroethene	ND	ND	ug/kg	58.6	20.5	SW846 8260D	50	11/15/2024 21:38	BST	A
Toluene	116		ug/kg	58.6	13.5	SW846 8260D	50	11/15/2024 21:38	BST	A
Total Xylenes	88.0J	J	ug/kg	176	38.7	SW846 8260D	50	11/15/2024 21:38	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	58.6	15.2	SW846 8260D	50	11/15/2024 21:38	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	58.6	17.0	SW846 8260D	50	11/15/2024 21:38	BST	A
Trichloroethene	ND	ND	ug/kg	58.6	19.3	SW846 8260D	50	11/15/2024 21:38	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	58.6	14.1	SW846 8260D	50	11/15/2024 21:38	BST	A
Vinyl Chloride	ND	ND	ug/kg	58.6	17.6	SW846 8260D	50	11/15/2024 21:38	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	91.5%	71 – 146	11/15/2024 21:38	
4-Bromofluorobenzene	460-00-4	92.8%	46 – 138	11/15/2024 21:38	
Dibromofluoromethane	1868-53-7	83.8%	42 – 143	11/15/2024 21:38	
Toluene-d8	2037-26-5	97%	54 – 141	11/15/2024 21:38	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	11.9		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A
Total Solids	88.1		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A

Results

Client Sample ID	SB-203-10	Collected	11/12/2024 11:20
Lab Sample ID	3387420002	Lab Receipt	11/13/2024 08:55

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	5830		mg/kg	24.6	8.2	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Antimony, Total	ND	ND	mg/kg	4.9	1.6	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Arsenic, Total	10.8		mg/kg	4.9	1.6	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Barium, Total	95.0		mg/kg	2.5	0.82	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Beryllium, Total	1.1J	J	mg/kg	2.5	0.82	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Cadmium, Total	4.4		mg/kg	1.2	0.41	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Calcium, Total	17300		mg/kg	24.6	8.2	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Chromium, Total	36.0		mg/kg	2.5	0.82	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Cobalt, Total	37.5		mg/kg	2.5	0.82	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Copper, Total	54.0		mg/kg	4.9	1.6	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Iron, Total	86000		mg/kg	24.6	8.2	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Lead, Total	130		mg/kg	4.9	1.6	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Magnesium, Total	2840		mg/kg	24.6	8.2	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Manganese, Total	6230		mg/kg	2.5	0.82	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Mercury, Total	0.65		mg/kg	0.062	0.020	SW846 7471B	1	11/26/2024 09:46	JMS	F
Nickel, Total	16.6		mg/kg	4.9	1.6	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Potassium, Total	737		mg/kg	123	41.0	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Selenium, Total	ND	ND	mg/kg	12.3	4.1	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Silver, Total	ND	ND	mg/kg	1.2	0.41	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Sodium, Total	269		mg/kg	123	41.0	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Thallium, Total	3.5J	J	mg/kg	7.4	2.5	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Vanadium, Total	49.6		mg/kg	2.5	0.82	SW846 6010C	2	11/19/2024 09:46	MSY	F1
Zinc, Total	1610		mg/kg	4.9	1.6	SW846 6010C	2	11/19/2024 09:46	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
1,4-Dioxane	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	947	161	SW846 8270E	4	11/18/2024 15:01	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	947	161	SW846 8270E	4	11/18/2024 15:01	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	947	161	SW846 8270E	4	11/18/2024 15:01	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	947	161	SW846 8270E	4	11/18/2024 15:01	S7M	F
2,4-Dimethylphenol	256J	J	ug/kg	947	161	SW846 8270E	4	11/18/2024 15:01	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	1890	938	SW846 8270E	4	11/18/2024 15:01	S7M	F
2,4-Dinitrotoluene	ND	ND,28	ug/kg	474	94.7	SW846 8270E	4	11/18/2024 15:01	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	474	161	SW846 8270E	4	11/18/2024 15:01	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
2-Chlorophenol	ND	ND	ug/kg	947	161	SW846 8270E	4	11/18/2024 15:01	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	947	237	SW846 8270E	4	11/18/2024 15:01	S7M	F
2-Methylnaphthalene	7410		ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
2-Nitroaniline	ND	ND	ug/kg	947	109	SW846 8270E	4	11/18/2024 15:01	S7M	F
2-Nitrophenol	ND	ND,43	ug/kg	947	161	SW846 8270E	4	11/18/2024 15:01	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	947	147	SW846 8270E	4	11/18/2024 15:01	S7M	F
3-Nitroaniline	ND	ND	ug/kg	947	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	947	161	SW846 8270E	4	11/18/2024 15:01	S7M	F

Results

Client Sample ID	SB-203-10	Collected	11/12/2024 11:20
Lab Sample ID	3387420002	Lab Receipt	11/13/2024 08:55

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	947	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
4-Nitroaniline	ND	ND,42	ug/kg	947	137	SW846 8270E	4	11/18/2024 15:01	S7M	F
4-Nitrophenol	ND	ND	ug/kg	947	161	SW846 8270E	4	11/18/2024 15:01	S7M	F
Acenaphthene	14900		ug/kg	237	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Acenaphthylene	9080		ug/kg	237	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Acetophenone	1690		ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Anthracene	22000		ug/kg	237	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Atrazine	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Benzaldehyde	ND	ND	ug/kg	947	94.7	SW846 8270E	4	11/18/2024 15:01	S7M	F
Benzo(a)anthracene	21800		ug/kg	237	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Benzo(a)pyrene	19300		ug/kg	237	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Benzo(b)fluoranthene	16800		ug/kg	237	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Benzo(g,h,i)perylene	9040		ug/kg	237	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Benzo(k)fluoranthene	16900		ug/kg	237	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Biphenyl	2580		ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	474	104	SW846 8270E	4	11/18/2024 15:01	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Caprolactam	ND	ND	ug/kg	947	185	SW846 8270E	4	11/18/2024 15:01	S7M	F
Carbazole	7510		ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Chrysene	22200		ug/kg	237	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Dibenzo(a,h)anthracene	2640		ug/kg	237	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Dibenzofuran	16500		ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Diethylphthalate	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Dimethylphthalate	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	474	166	SW846 8270E	4	11/18/2024 15:01	S7M	F
Di-n-Octylphthalate	ND	ND,22	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Fluoranthene	67400		ug/kg	2370	805	SW846 8270E	40	11/21/2024 03:38	M1O	F
Fluorene	31000		ug/kg	237	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	947	142	SW846 8270E	4	11/18/2024 15:01	S7M	F
Hexachloroethane	ND	ND	ug/kg	474	109	SW846 8270E	4	11/18/2024 15:01	S7M	F
Indeno(1,2,3-cd)pyrene	10100		ug/kg	237	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
Isophorone	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
mp-Cresol	482J	J	ug/kg	947	161	SW846 8270E	4	11/18/2024 15:01	S7M	F
Naphthalene	188000		ug/kg	2370	805	SW846 8270E	40	11/21/2024 03:38	M1O	F
Nitrobenzene	ND	ND	ug/kg	474	161	SW846 8270E	4	11/18/2024 15:01	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	474	80.5	SW846 8270E	4	11/18/2024 15:01	S7M	F
o-Cresol	ND	ND	ug/kg	947	161	SW846 8270E	4	11/18/2024 15:01	S7M	F
Pentachlorophenol	ND	ND	ug/kg	947	232	SW846 8270E	4	11/18/2024 15:01	S7M	F
Phenanthrene	96200		ug/kg	2370	805	SW846 8270E	40	11/21/2024 03:38	M1O	F
Phenol	647J	J	ug/kg	947	161	SW846 8270E	4	11/18/2024 15:01	S7M	F

Results

Client Sample ID	SB-203-10	Collected	11/12/2024 11:20
Lab Sample ID	3387420002	Lab Receipt	11/13/2024 08:55

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	65000		ug/kg	2370	805	SW846 8270E	40	11/21/2024 03:38	M1O	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	86.4%	19 – 132	11/18/2024 15:01	
2-Fluorobiphenyl	321-60-8	73.4%	40 – 110	11/18/2024 15:01	
2-Fluorophenol	367-12-4	73.4%	26 – 116	11/18/2024 15:01	
Nitrobenzene-d5	4165-60-0	80.9%	38 – 112	11/18/2024 15:01	
Phenol-d5	4165-62-2	71.5%	35 – 111	11/18/2024 15:01	
Terphenyl-d14	98904-43-9	92.4%	45 – 126	11/18/2024 15:01	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	2760	607	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	2760	938	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	2760	911	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	2760	773	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	2760	800	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/kg	5520	2570	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	5520	1660	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	5520	2260	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,2,4-Trimethylbenzene	ND	ND	ug/kg	2760	690	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	19300	4140	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	2760	773	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	2760	1050	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	2760	883	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	5520	1240	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	2760	662	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,3,5-Trimethylbenzene	ND	ND	ug/kg	2760	552	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	2760	690	SW846 8260D	2000	11/16/2024 01:03	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	2760	745	SW846 8260D	2000	11/16/2024 01:03	BST	A
2-Butanone	ND	ND	ug/kg	27600	4970	SW846 8260D	2000	11/16/2024 01:03	BST	A
2-Hexanone	ND	ND	ug/kg	13800	3590	SW846 8260D	2000	11/16/2024 01:03	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	13800	4140	SW846 8260D	2000	11/16/2024 01:03	BST	A
Acetone	ND	ND	ug/kg	27600	8560	SW846 8260D	2000	11/16/2024 01:03	BST	A
Benzene	3740		ug/kg	2760	635	SW846 8260D	2000	11/16/2024 01:03	BST	A
Bromochloromethane	ND	ND	ug/kg	2760	883	SW846 8260D	2000	11/16/2024 01:03	BST	A
Bromodichloromethane	ND	ND	ug/kg	2760	745	SW846 8260D	2000	11/16/2024 01:03	BST	A
Bromoform	ND	ND	ug/kg	2760	1100	SW846 8260D	2000	11/16/2024 01:03	BST	A
Bromomethane	ND	ND	ug/kg	2760	1080	SW846 8260D	2000	11/16/2024 01:03	BST	A
Carbon Disulfide	ND	ND	ug/kg	2760	635	SW846 8260D	2000	11/16/2024 01:03	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	2760	856	SW846 8260D	2000	11/16/2024 01:03	BST	A
Chlorobenzene	ND	ND	ug/kg	2760	524	SW846 8260D	2000	11/16/2024 01:03	BST	A
Chlorodibromomethane	ND	ND	ug/kg	2760	1240	SW846 8260D	2000	11/16/2024 01:03	BST	A
Chloroethane	ND	ND	ug/kg	2760	911	SW846 8260D	2000	11/16/2024 01:03	BST	A

Results

Client Sample ID	SB-203-10	Collected	11/12/2024 11:20
Lab Sample ID	3387420002	Lab Receipt	11/13/2024 08:55

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	2760	580	SW846 8260D	2000	11/16/2024 01:03	BST	A
Chloromethane	ND	ND	ug/kg	2760	856	SW846 8260D	2000	11/16/2024 01:03	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	2760	883	SW846 8260D	2000	11/16/2024 01:03	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	2760	856	SW846 8260D	2000	11/16/2024 01:03	BST	A
Cyclohexane	ND	ND	ug/kg	2760	800	SW846 8260D	2000	11/16/2024 01:03	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	2760	911	SW846 8260D	2000	11/16/2024 01:03	BST	A
Ethylbenzene	ND	ND	ug/kg	2760	938	SW846 8260D	2000	11/16/2024 01:03	BST	A
Freon 113	ND	ND	ug/kg	2760	718	SW846 8260D	2000	11/16/2024 01:03	BST	A
Isopropylbenzene	ND	ND	ug/kg	2760	607	SW846 8260D	2000	11/16/2024 01:03	BST	A
Methyl acetate	ND	ND	ug/kg	5520	883	SW846 8260D	2000	11/16/2024 01:03	BST	A
Methyl cyclohexane	ND	ND	ug/kg	2760	828	SW846 8260D	2000	11/16/2024 01:03	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	2760	911	SW846 8260D	2000	11/16/2024 01:03	BST	A
Methylene Chloride	ND	ND	ug/kg	2760	1240	SW846 8260D	2000	11/16/2024 01:03	BST	A
mp-Xylene	ND	ND	ug/kg	5520	1440	SW846 8260D	2000	11/16/2024 01:03	BST	A
o-Xylene	ND	ND	ug/kg	2760	911	SW846 8260D	2000	11/16/2024 01:03	BST	A
Styrene	ND	ND	ug/kg	2760	662	SW846 8260D	2000	11/16/2024 01:03	BST	A
Tetrachloroethene	ND	ND	ug/kg	2760	966	SW846 8260D	2000	11/16/2024 01:03	BST	A
Toluene	1190J	J	ug/kg	2760	635	SW846 8260D	2000	11/16/2024 01:03	BST	A
Total Xylenes	ND	ND	ug/kg	8280	1820	SW846 8260D	2000	11/16/2024 01:03	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	2760	718	SW846 8260D	2000	11/16/2024 01:03	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	2760	800	SW846 8260D	2000	11/16/2024 01:03	BST	A
Trichloroethene	ND	ND	ug/kg	2760	911	SW846 8260D	2000	11/16/2024 01:03	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	2760	662	SW846 8260D	2000	11/16/2024 01:03	BST	A
Vinyl Chloride	ND	ND	ug/kg	2760	828	SW846 8260D	2000	11/16/2024 01:03	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	92.8%	71 – 146	11/16/2024 01:03	
4-Bromofluorobenzene	460-00-4	98.8%	46 – 138	11/16/2024 01:03	
Dibromofluoromethane	1868-53-7	91.4%	42 – 143	11/16/2024 01:03	
Toluene-d8	2037-26-5	99%	54 – 141	11/16/2024 01:03	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	23.2		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A
Total Solids	76.8		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A

Results

Client Sample ID	SB-204-10	Collected	11/12/2024 12:05
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	5960	50	mg/kg	26.5	8.8	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Antimony, Total	ND	ND	mg/kg	5.3	1.8	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Arsenic, Total	25.5	51	mg/kg	5.3	1.8	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Barium, Total	101	52,53	mg/kg	2.6	0.88	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Beryllium, Total	1.5J	J	mg/kg	2.6	0.88	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Cadmium, Total	2.7		mg/kg	1.3	0.44	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Calcium, Total	27600	50	mg/kg	26.5	8.8	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Chromium, Total	41.6	54,55,56	mg/kg	2.6	0.88	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Cobalt, Total	42.4		mg/kg	2.6	0.88	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Copper, Total	68.3		mg/kg	5.3	1.8	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Iron, Total	84400	50	mg/kg	26.5	8.8	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Lead, Total	199	55,57,58	mg/kg	5.3	1.8	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Magnesium, Total	9470	50	mg/kg	26.5	8.8	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Manganese, Total	3380	50	mg/kg	2.6	0.88	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Mercury, Total	0.16		mg/kg	0.064	0.020	SW846 7471B	1	11/26/2024 09:51	JMS	F
Nickel, Total	23.1		mg/kg	5.3	1.8	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Potassium, Total	689	55,59,60,61	mg/kg	132	44.2	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Selenium, Total	6.5J	J	mg/kg	13.2	4.4	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Silver, Total	ND	ND	mg/kg	1.3	0.44	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Sodium, Total	274	62,63	mg/kg	132	44.2	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Thallium, Total	7.7J	J	mg/kg	7.9	2.6	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Vanadium, Total	54.3	55,64,65	mg/kg	2.6	0.88	SW846 6010C	2	11/19/2024 09:53	MSY	F1
Zinc, Total	281	55,66,67	mg/kg	5.3	1.8	SW846 6010C	2	11/19/2024 09:53	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
1,4-Dioxane	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	1050	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	1050	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	1050	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	1050	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
2,4-Dimethylphenol	6820		ug/kg	1050	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	2100	1040	SW846 8270E	4	11/18/2024 15:26	S7M	F
2,4-Dinitrotoluene	ND	ND,28	ug/kg	526	105	SW846 8270E	4	11/18/2024 15:26	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	526	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
2-Chlorophenol	ND	ND	ug/kg	1050	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	1050	263	SW846 8270E	4	11/18/2024 15:26	S7M	F
2-Methylnaphthalene	216000		ug/kg	26300	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
2-Nitroaniline	ND	ND	ug/kg	1050	121	SW846 8270E	4	11/18/2024 15:26	S7M	F
2-Nitrophenol	ND	ND,43	ug/kg	1050	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	1050	163	SW846 8270E	4	11/18/2024 15:26	S7M	F
3-Nitroaniline	ND	ND	ug/kg	1050	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F

Results

Client Sample ID	SB-204-10	Collected	11/12/2024 12:05
Lab Sample ID	3387420003	Lab Receipt	11/13/2024 08:55

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloro-3-methylphenol	ND	ND	ug/kg	1050	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
4-Chloroaniline	ND	ND	ug/kg	1050	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
4-Nitroaniline	ND	ND,42	ug/kg	1050	152	SW846 8270E	4	11/18/2024 15:26	S7M	F
4-Nitrophenol	ND	ND	ug/kg	1050	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
Acenaphthene	309000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Acenaphthylene	133000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Acetophenone	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
Anthracene	377000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Atrazine	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
Benzaldehyde	ND	ND	ug/kg	1050	105	SW846 8270E	4	11/18/2024 15:26	S7M	F
Benzo(a)anthracene	241000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Benzo(a)pyrene	145000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Benzo(b)fluoranthene	109000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Benzo(g,h,i)perylene	67600		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Benzo(k)fluoranthene	116000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Biphenyl	61700		ug/kg	26300	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	526	116	SW846 8270E	4	11/18/2024 15:26	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
Caprolactam	ND	ND	ug/kg	1050	205	SW846 8270E	4	11/18/2024 15:26	S7M	F
Carbazole	169000		ug/kg	26300	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Chrysene	229000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Dibenzo(a,h)anthracene	30000		ug/kg	263	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
Dibenzofuran	223000		ug/kg	26300	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Diethylphthalate	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
Dimethylphthalate	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	526	184	SW846 8270E	4	11/18/2024 15:26	S7M	F
Di-n-Octylphthalate	ND	ND,22	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
Fluoranthene	896000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Fluorene	350000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Hexachlorobenzene	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
Hexachlorobutadiene	154J	J	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	1050	158	SW846 8270E	4	11/18/2024 15:26	S7M	F
Hexachloroethane	ND	ND	ug/kg	526	121	SW846 8270E	4	11/18/2024 15:26	S7M	F
Indeno(1,2,3-cd)pyrene	72100		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Isophorone	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
mp-Cresol	4510		ug/kg	1050	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
Naphthalene	1330000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F
Nitrobenzene	ND	ND	ug/kg	526	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	526	89.3	SW846 8270E	4	11/18/2024 15:26	S7M	F
o-Cresol	ND	ND	ug/kg	1050	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
Pentachlorophenol	ND	ND	ug/kg	1050	258	SW846 8270E	4	11/18/2024 15:26	S7M	F
Phenanthrene	1040000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F

Results

Client Sample ID	SB-204-10	Collected	11/12/2024 12:05
Lab Sample ID	3387420003	Lab Receipt	11/13/2024 08:55

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Phenol	5290		ug/kg	1050	179	SW846 8270E	4	11/18/2024 15:26	S7M	F
Pyrene	542000		ug/kg	13100	4470	SW846 8270E	200	11/21/2024 04:03	M1O	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	86.9%	19 – 132	11/18/2024 15:26	
2-Fluorobiphenyl	321-60-8	68.9%	40 – 110	11/18/2024 15:26	
2-Fluorophenol	367-12-4	74.3%	26 – 116	11/18/2024 15:26	
Nitrobenzene-d5	4165-60-0	84.3%	38 – 112	11/18/2024 15:26	
Phenol-d5	4165-62-2	76.2%	35 – 111	11/18/2024 15:26	
Terphenyl-d14	98904-43-9	97.3%	45 – 126	11/18/2024 15:26	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	781	172	SW846 8260D	500	11/16/2024 00:42	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	781	265	SW846 8260D	500	11/16/2024 00:42	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	781	258	SW846 8260D	500	11/16/2024 00:42	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	781	219	SW846 8260D	500	11/16/2024 00:42	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	781	226	SW846 8260D	500	11/16/2024 00:42	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/kg	1560	726	SW846 8260D	500	11/16/2024 00:42	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	1560	468	SW846 8260D	500	11/16/2024 00:42	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	1560	640	SW846 8260D	500	11/16/2024 00:42	BST	A
1,2,4-Trimethylbenzene	489J	J	ug/kg	781	195	SW846 8260D	500	11/16/2024 00:42	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	5460	1170	SW846 8260D	500	11/16/2024 00:42	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	781	219	SW846 8260D	500	11/16/2024 00:42	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	781	297	SW846 8260D	500	11/16/2024 00:42	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	781	250	SW846 8260D	500	11/16/2024 00:42	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	1560	351	SW846 8260D	500	11/16/2024 00:42	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	781	187	SW846 8260D	500	11/16/2024 00:42	BST	A
1,3,5-Trimethylbenzene	356J	J	ug/kg	781	156	SW846 8260D	500	11/16/2024 00:42	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	781	195	SW846 8260D	500	11/16/2024 00:42	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	781	211	SW846 8260D	500	11/16/2024 00:42	BST	A
2-Butanone	ND	ND	ug/kg	7810	1410	SW846 8260D	500	11/16/2024 00:42	BST	A
2-Hexanone	ND	ND	ug/kg	3900	1010	SW846 8260D	500	11/16/2024 00:42	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	3900	1170	SW846 8260D	500	11/16/2024 00:42	BST	A
Acetone	ND	ND	ug/kg	7810	2420	SW846 8260D	500	11/16/2024 00:42	BST	A
Benzene	16500		ug/kg	781	180	SW846 8260D	500	11/16/2024 00:42	BST	A
Bromochloromethane	ND	ND	ug/kg	781	250	SW846 8260D	500	11/16/2024 00:42	BST	A
Bromodichloromethane	ND	ND	ug/kg	781	211	SW846 8260D	500	11/16/2024 00:42	BST	A
Bromoform	ND	ND	ug/kg	781	312	SW846 8260D	500	11/16/2024 00:42	BST	A
Bromomethane	ND	ND	ug/kg	781	304	SW846 8260D	500	11/16/2024 00:42	BST	A
Carbon Disulfide	ND	ND	ug/kg	781	180	SW846 8260D	500	11/16/2024 00:42	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	781	242	SW846 8260D	500	11/16/2024 00:42	BST	A
Chlorobenzene	ND	ND	ug/kg	781	148	SW846 8260D	500	11/16/2024 00:42	BST	A
Chlorodibromomethane	ND	ND	ug/kg	781	351	SW846 8260D	500	11/16/2024 00:42	BST	A

Results

Client Sample ID	SB-204-10	Collected	11/12/2024 12:05
Lab Sample ID	3387420003	Lab Receipt	11/13/2024 08:55

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroethane	ND	ND	ug/kg	781	258	SW846 8260D	500	11/16/2024 00:42	BST	A
Chloroform	ND	ND	ug/kg	781	164	SW846 8260D	500	11/16/2024 00:42	BST	A
Chloromethane	ND	ND	ug/kg	781	242	SW846 8260D	500	11/16/2024 00:42	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	781	250	SW846 8260D	500	11/16/2024 00:42	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	781	242	SW846 8260D	500	11/16/2024 00:42	BST	A
Cyclohexane	ND	ND	ug/kg	781	226	SW846 8260D	500	11/16/2024 00:42	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	781	258	SW846 8260D	500	11/16/2024 00:42	BST	A
Ethylbenzene	1240		ug/kg	781	265	SW846 8260D	500	11/16/2024 00:42	BST	A
Freon 113	ND	ND	ug/kg	781	203	SW846 8260D	500	11/16/2024 00:42	BST	A
Isopropylbenzene	ND	ND	ug/kg	781	172	SW846 8260D	500	11/16/2024 00:42	BST	A
Methyl acetate	ND	ND	ug/kg	1560	250	SW846 8260D	500	11/16/2024 00:42	BST	A
Methyl cyclohexane	305J	J	ug/kg	781	234	SW846 8260D	500	11/16/2024 00:42	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	781	258	SW846 8260D	500	11/16/2024 00:42	BST	A
Methylene Chloride	ND	ND	ug/kg	781	351	SW846 8260D	500	11/16/2024 00:42	BST	A
mp-Xylene	1010J	J	ug/kg	1560	406	SW846 8260D	500	11/16/2024 00:42	BST	A
o-Xylene	441J	J	ug/kg	781	258	SW846 8260D	500	11/16/2024 00:42	BST	A
Styrene	ND	ND	ug/kg	781	187	SW846 8260D	500	11/16/2024 00:42	BST	A
Tetrachloroethene	ND	ND	ug/kg	781	273	SW846 8260D	500	11/16/2024 00:42	BST	A
Toluene	1150		ug/kg	781	180	SW846 8260D	500	11/16/2024 00:42	BST	A
Total Xylenes	1450J	J	ug/kg	2340	515	SW846 8260D	500	11/16/2024 00:42	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	781	203	SW846 8260D	500	11/16/2024 00:42	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	781	226	SW846 8260D	500	11/16/2024 00:42	BST	A
Trichloroethene	ND	ND	ug/kg	781	258	SW846 8260D	500	11/16/2024 00:42	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	781	187	SW846 8260D	500	11/16/2024 00:42	BST	A
Vinyl Chloride	ND	ND	ug/kg	781	234	SW846 8260D	500	11/16/2024 00:42	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	91.2%	71 – 146	11/16/2024 00:42	
4-Bromofluorobenzene	460-00-4	97.8%	46 – 138	11/16/2024 00:42	
Dibromofluoromethane	1868-53-7	88.9%	42 – 143	11/16/2024 00:42	
Toluene-d8	2037-26-5	97.3%	54 – 141	11/16/2024 00:42	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	28.2		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A
Total Solids	71.8		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A

Results

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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	6460		mg/kg	12.9	4.3	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Antimony, Total	ND	ND	mg/kg	2.6	0.86	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Arsenic, Total	10		mg/kg	2.6	0.86	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Barium, Total	43.2		mg/kg	1.3	0.43	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Beryllium, Total	0.69J	J	mg/kg	1.3	0.43	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Cadmium, Total	2.0		mg/kg	0.65	0.22	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Calcium, Total	13200		mg/kg	12.9	4.3	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Chromium, Total	18.5		mg/kg	1.3	0.43	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Cobalt, Total	13.9		mg/kg	1.3	0.43	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Copper, Total	35.9		mg/kg	2.6	0.86	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Iron, Total	21300		mg/kg	12.9	4.3	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Lead, Total	56.9		mg/kg	2.6	0.86	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Magnesium, Total	6170		mg/kg	12.9	4.3	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Manganese, Total	311		mg/kg	1.3	0.43	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Mercury, Total	0.29		mg/kg	0.065	0.021	SW846 7471B	1	11/26/2024 09:47	JMS	F
Nickel, Total	18.2		mg/kg	2.6	0.86	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Potassium, Total	923		mg/kg	64.7	21.6	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Selenium, Total	3.6J	J	mg/kg	6.5	2.2	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Silver, Total	ND	ND	mg/kg	0.65	0.22	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Sodium, Total	119		mg/kg	64.7	21.6	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Thallium, Total	3.0J	J	mg/kg	3.9	1.3	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Vanadium, Total	14.0		mg/kg	1.3	0.43	SW846 6010C	1	11/19/2024 09:57	MSY	F1
Zinc, Total	149		mg/kg	2.6	0.86	SW846 6010C	1	11/19/2024 09:57	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
1,4-Dioxane	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	1030	175	SW846 8270E	4	11/18/2024 15:50	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	1030	175	SW846 8270E	4	11/18/2024 15:50	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	1030	175	SW846 8270E	4	11/18/2024 15:50	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	1030	175	SW846 8270E	4	11/18/2024 15:50	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	1030	175	SW846 8270E	4	11/18/2024 15:50	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	2060	1020	SW846 8270E	4	11/18/2024 15:50	S7M	F
2,4-Dinitrotoluene	ND	ND,28	ug/kg	516	103	SW846 8270E	4	11/18/2024 15:50	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	516	175	SW846 8270E	4	11/18/2024 15:50	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
2-Chlorophenol	ND	ND	ug/kg	1030	175	SW846 8270E	4	11/18/2024 15:50	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	1030	258	SW846 8270E	4	11/18/2024 15:50	S7M	F
2-Methylnaphthalene	3200		ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
2-Nitroaniline	ND	ND	ug/kg	1030	119	SW846 8270E	4	11/18/2024 15:50	S7M	F
2-Nitrophenol	ND	ND,43	ug/kg	1030	175	SW846 8270E	4	11/18/2024 15:50	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	1030	160	SW846 8270E	4	11/18/2024 15:50	S7M	F
3-Nitroaniline	ND	ND	ug/kg	1030	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	1030	175	SW846 8270E	4	11/18/2024 15:50	S7M	F

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	1030	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
4-Nitroaniline	ND	ND,42	ug/kg	1030	150	SW846 8270E	4	11/18/2024 15:50	S7M	F
4-Nitrophenol	ND	ND	ug/kg	1030	175	SW846 8270E	4	11/18/2024 15:50	S7M	F
Acenaphthene	2370		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Acenaphthylene	2810		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Acetophenone	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Anthracene	6240		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Atrazine	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Benzaldehyde	ND	ND	ug/kg	1030	103	SW846 8270E	4	11/18/2024 15:50	S7M	F
Benzo(a)anthracene	8580		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Benzo(a)pyrene	6250		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Benzo(b)fluoranthene	5550		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Benzo(g,h,i)perylene	2760		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Benzo(k)fluoranthene	5470		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Biphenyl	418J	J	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	516	114	SW846 8270E	4	11/18/2024 15:50	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Caprolactam	ND	ND	ug/kg	1030	201	SW846 8270E	4	11/18/2024 15:50	S7M	F
Carbazole	2130		ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Chrysene	8880		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Dibenzo(a,h)anthracene	1140		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Dibenzofuran	3200		ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Diethylphthalate	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Dimethylphthalate	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	516	181	SW846 8270E	4	11/18/2024 15:50	S7M	F
Di-n-Octylphthalate	ND	ND,22	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Fluoranthene	20200		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Fluorene	7610		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	1030	155	SW846 8270E	4	11/18/2024 15:50	S7M	F
Hexachloroethane	ND	ND	ug/kg	516	119	SW846 8270E	4	11/18/2024 15:50	S7M	F
Indeno(1,2,3-cd)pyrene	3040		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Isophorone	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
mp-Cresol	677J	J	ug/kg	1030	175	SW846 8270E	4	11/18/2024 15:50	S7M	F
Naphthalene	9100		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Nitrobenzene	ND	ND	ug/kg	516	175	SW846 8270E	4	11/18/2024 15:50	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	516	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
o-Cresol	ND	ND	ug/kg	1030	175	SW846 8270E	4	11/18/2024 15:50	S7M	F
Pentachlorophenol	ND	ND	ug/kg	1030	253	SW846 8270E	4	11/18/2024 15:50	S7M	F
Phenanthrene	23700		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F
Phenol	ND	ND	ug/kg	1030	175	SW846 8270E	4	11/18/2024 15:50	S7M	F

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	13100		ug/kg	258	87.7	SW846 8270E	4	11/18/2024 15:50	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	88.1%	19 – 132	11/18/2024 15:50	
2-Fluorobiphenyl	321-60-8	72.3%	40 – 110	11/18/2024 15:50	
2-Fluorophenol	367-12-4	64.6%	26 – 116	11/18/2024 15:50	
Nitrobenzene-d5	4165-60-0	75.6%	38 – 112	11/18/2024 15:50	
Phenol-d5	4165-62-2	70.5%	35 – 111	11/18/2024 15:50	
Terphenyl-d14	98904-43-9	95.6%	45 – 126	11/18/2024 15:50	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	59.8	13.2	SW846 8260D	50	11/15/2024 21:59	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	59.8	20.3	SW846 8260D	50	11/15/2024 21:59	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	59.8	19.7	SW846 8260D	50	11/15/2024 21:59	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	59.8	16.8	SW846 8260D	50	11/15/2024 21:59	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	59.8	17.4	SW846 8260D	50	11/15/2024 21:59	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/kg	120	55.6	SW846 8260D	50	11/15/2024 21:59	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	120	35.9	SW846 8260D	50	11/15/2024 21:59	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	120	49.1	SW846 8260D	50	11/15/2024 21:59	BST	A
1,2,4-Trimethylbenzene	47.3J	J	ug/kg	59.8	15.0	SW846 8260D	50	11/15/2024 21:59	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	419	89.7	SW846 8260D	50	11/15/2024 21:59	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	59.8	16.8	SW846 8260D	50	11/15/2024 21:59	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	59.8	22.7	SW846 8260D	50	11/15/2024 21:59	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	59.8	19.1	SW846 8260D	50	11/15/2024 21:59	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	120	26.9	SW846 8260D	50	11/15/2024 21:59	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	59.8	14.4	SW846 8260D	50	11/15/2024 21:59	BST	A
1,3,5-Trimethylbenzene	17.6J	J	ug/kg	59.8	12.0	SW846 8260D	50	11/15/2024 21:59	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	59.8	15.0	SW846 8260D	50	11/15/2024 21:59	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	59.8	16.2	SW846 8260D	50	11/15/2024 21:59	BST	A
2-Butanone	ND	ND	ug/kg	598	108	SW846 8260D	50	11/15/2024 21:59	BST	A
2-Hexanone	ND	ND	ug/kg	299	77.8	SW846 8260D	50	11/15/2024 21:59	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	299	89.7	SW846 8260D	50	11/15/2024 21:59	BST	A
Acetone	ND	ND	ug/kg	598	185	SW846 8260D	50	11/15/2024 21:59	BST	A
Benzene	447		ug/kg	59.8	13.8	SW846 8260D	50	11/15/2024 21:59	BST	A
Bromochloromethane	ND	ND	ug/kg	59.8	19.1	SW846 8260D	50	11/15/2024 21:59	BST	A
Bromodichloromethane	ND	ND	ug/kg	59.8	16.2	SW846 8260D	50	11/15/2024 21:59	BST	A
Bromoform	ND	ND	ug/kg	59.8	23.9	SW846 8260D	50	11/15/2024 21:59	BST	A
Bromomethane	28.2J	J	ug/kg	59.8	23.3	SW846 8260D	50	11/15/2024 21:59	BST	A
Carbon Disulfide	ND	ND	ug/kg	59.8	13.8	SW846 8260D	50	11/15/2024 21:59	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	59.8	18.5	SW846 8260D	50	11/15/2024 21:59	BST	A
Chlorobenzene	ND	ND	ug/kg	59.8	11.4	SW846 8260D	50	11/15/2024 21:59	BST	A
Chlorodibromomethane	ND	ND	ug/kg	59.8	26.9	SW846 8260D	50	11/15/2024 21:59	BST	A
Chloroethane	ND	ND	ug/kg	59.8	19.7	SW846 8260D	50	11/15/2024 21:59	BST	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	59.8	12.6	SW846 8260D	50	11/15/2024 21:59	BST	A
Chloromethane	ND	ND	ug/kg	59.8	18.5	SW846 8260D	50	11/15/2024 21:59	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	59.8	19.1	SW846 8260D	50	11/15/2024 21:59	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	59.8	18.5	SW846 8260D	50	11/15/2024 21:59	BST	A
Cyclohexane	ND	ND	ug/kg	59.8	17.4	SW846 8260D	50	11/15/2024 21:59	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	59.8	19.7	SW846 8260D	50	11/15/2024 21:59	BST	A
Ethylbenzene	ND	ND	ug/kg	59.8	20.3	SW846 8260D	50	11/15/2024 21:59	BST	A
Freon 113	ND	ND	ug/kg	59.8	15.6	SW846 8260D	50	11/15/2024 21:59	BST	A
Isopropylbenzene	21.8J	J	ug/kg	59.8	13.2	SW846 8260D	50	11/15/2024 21:59	BST	A
Methyl acetate	76.7J	J	ug/kg	120	19.1	SW846 8260D	50	11/15/2024 21:59	BST	A
Methyl cyclohexane	34.4J	J	ug/kg	59.8	17.9	SW846 8260D	50	11/15/2024 21:59	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	59.8	19.7	SW846 8260D	50	11/15/2024 21:59	BST	A
Methylene Chloride	ND	ND	ug/kg	59.8	26.9	SW846 8260D	50	11/15/2024 21:59	BST	A
mp-Xylene	53.1J	J	ug/kg	120	31.1	SW846 8260D	50	11/15/2024 21:59	BST	A
o-Xylene	23.5J	J	ug/kg	59.8	19.7	SW846 8260D	50	11/15/2024 21:59	BST	A
Styrene	ND	ND	ug/kg	59.8	14.4	SW846 8260D	50	11/15/2024 21:59	BST	A
Tetrachloroethene	ND	ND	ug/kg	59.8	20.9	SW846 8260D	50	11/15/2024 21:59	BST	A
Toluene	37.8J	J	ug/kg	59.8	13.8	SW846 8260D	50	11/15/2024 21:59	BST	A
Total Xylenes	76.6J	J	ug/kg	179	39.5	SW846 8260D	50	11/15/2024 21:59	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	59.8	15.6	SW846 8260D	50	11/15/2024 21:59	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	59.8	17.4	SW846 8260D	50	11/15/2024 21:59	BST	A
Trichloroethene	ND	ND	ug/kg	59.8	19.7	SW846 8260D	50	11/15/2024 21:59	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	59.8	14.4	SW846 8260D	50	11/15/2024 21:59	BST	A
Vinyl Chloride	ND	ND	ug/kg	59.8	17.9	SW846 8260D	50	11/15/2024 21:59	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	94.2%	71 – 146	11/15/2024 21:59	
4-Bromofluorobenzene	460-00-4	98.6%	46 – 138	11/15/2024 21:59	
Dibromofluoromethane	1868-53-7	87.5%	42 – 143	11/15/2024 21:59	
Toluene-d8	2037-26-5	99.6%	54 – 141	11/15/2024 21:59	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	29.5		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A
Total Solids	70.5		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A

Results

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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	7760		mg/kg	12.6	4.2	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Antimony, Total	ND	ND	mg/kg	2.5	0.84	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Arsenic, Total	10.7		mg/kg	2.5	0.84	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Barium, Total	83.1		mg/kg	1.3	0.42	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Beryllium, Total	1.2J	J	mg/kg	1.3	0.42	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Cadmium, Total	1.3		mg/kg	0.63	0.21	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Calcium, Total	41200		mg/kg	12.6	4.2	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Chromium, Total	17.1		mg/kg	1.3	0.42	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Cobalt, Total	19.6		mg/kg	1.3	0.42	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Copper, Total	47.9		mg/kg	2.5	0.84	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Iron, Total	29600		mg/kg	12.6	4.2	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Lead, Total	34.7		mg/kg	2.5	0.84	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Magnesium, Total	7410		mg/kg	12.6	4.2	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Manganese, Total	1070		mg/kg	1.3	0.42	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Mercury, Total	0.18		mg/kg	0.064	0.021	SW846 7471B	1	11/26/2024 09:53	JMS	F
Nickel, Total	26.1		mg/kg	2.5	0.84	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Potassium, Total	1960		mg/kg	63.0	21.0	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Selenium, Total	5.6J	J	mg/kg	6.3	2.1	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Silver, Total	ND	ND	mg/kg	0.63	0.21	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Sodium, Total	251		mg/kg	63.0	21.0	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Thallium, Total	2.7J	J	mg/kg	3.8	1.3	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Vanadium, Total	14.5		mg/kg	1.3	0.42	SW846 6010C	1	11/19/2024 09:38	MSY	F1
Zinc, Total	138		mg/kg	2.5	0.84	SW846 6010C	1	11/19/2024 09:38	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
1,4-Dioxane	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	1050	178	SW846 8270E	4	11/18/2024 16:15	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	1050	178	SW846 8270E	4	11/18/2024 16:15	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	1050	178	SW846 8270E	4	11/18/2024 16:15	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	1050	178	SW846 8270E	4	11/18/2024 16:15	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	1050	178	SW846 8270E	4	11/18/2024 16:15	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	2090	1040	SW846 8270E	4	11/18/2024 16:15	S7M	F
2,4-Dinitrotoluene	ND	ND,28	ug/kg	524	105	SW846 8270E	4	11/18/2024 16:15	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	524	178	SW846 8270E	4	11/18/2024 16:15	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
2-Chlorophenol	ND	ND	ug/kg	1050	178	SW846 8270E	4	11/18/2024 16:15	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	1050	262	SW846 8270E	4	11/18/2024 16:15	S7M	F
2-Methylnaphthalene	647		ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
2-Nitroaniline	ND	ND	ug/kg	1050	120	SW846 8270E	4	11/18/2024 16:15	S7M	F
2-Nitrophenol	ND	ND,43	ug/kg	1050	178	SW846 8270E	4	11/18/2024 16:15	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	1050	162	SW846 8270E	4	11/18/2024 16:15	S7M	F
3-Nitroaniline	ND	ND	ug/kg	1050	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	1050	178	SW846 8270E	4	11/18/2024 16:15	S7M	F

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	1050	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
4-Nitroaniline	ND	ND,42	ug/kg	1050	152	SW846 8270E	4	11/18/2024 16:15	S7M	F
4-Nitrophenol	ND	ND	ug/kg	1050	178	SW846 8270E	4	11/18/2024 16:15	S7M	F
Acenaphthene	3200		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Acenaphthylene	2200		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Acetophenone	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Anthracene	7200		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Atrazine	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Benzaldehyde	ND	ND	ug/kg	1050	105	SW846 8270E	4	11/18/2024 16:15	S7M	F
Benzo(a)anthracene	9540		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Benzo(a)pyrene	7980		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Benzo(b)fluoranthene	6920		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Benzo(g,h,i)perylene	3870		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Benzo(k)fluoranthene	6960		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Biphenyl	154J	J	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	524	115	SW846 8270E	4	11/18/2024 16:15	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Caprolactam	ND	ND	ug/kg	1050	204	SW846 8270E	4	11/18/2024 16:15	S7M	F
Carbazole	1870		ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Chrysene	9630		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Dibenzo(a,h)anthracene	1190		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Dibenzofuran	1310		ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Diethylphthalate	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Dimethylphthalate	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	524	183	SW846 8270E	4	11/18/2024 16:15	S7M	F
Di-n-Octylphthalate	ND	ND,22	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Fluoranthene	25700		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Fluorene	3720		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	1050	157	SW846 8270E	4	11/18/2024 16:15	S7M	F
Hexachloroethane	ND	ND	ug/kg	524	120	SW846 8270E	4	11/18/2024 16:15	S7M	F
Indeno(1,2,3-cd)pyrene	4250		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Isophorone	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
mp-Cresol	ND	ND	ug/kg	1050	178	SW846 8270E	4	11/18/2024 16:15	S7M	F
Naphthalene	2300		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Nitrobenzene	ND	ND	ug/kg	524	178	SW846 8270E	4	11/18/2024 16:15	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	524	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
o-Cresol	ND	ND	ug/kg	1050	178	SW846 8270E	4	11/18/2024 16:15	S7M	F
Pentachlorophenol	ND	ND	ug/kg	1050	257	SW846 8270E	4	11/18/2024 16:15	S7M	F
Phenanthrene	19700		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F
Phenol	ND	ND	ug/kg	1050	178	SW846 8270E	4	11/18/2024 16:15	S7M	F

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	17900		ug/kg	262	89.0	SW846 8270E	4	11/18/2024 16:15	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	92.4%	19 – 132	11/18/2024 16:15	
2-Fluorobiphenyl	321-60-8	68.8%	40 – 110	11/18/2024 16:15	
2-Fluorophenol	367-12-4	58.6%	26 – 116	11/18/2024 16:15	
Nitrobenzene-d5	4165-60-0	68.4%	38 – 112	11/18/2024 16:15	
Phenol-d5	4165-62-2	66.2%	35 – 111	11/18/2024 16:15	
Terphenyl-d14	98904-43-9	101%	45 – 126	11/18/2024 16:15	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	66.9	14.7	SW846 8260D	50	11/15/2024 22:19	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	66.9	22.7	SW846 8260D	50	11/15/2024 22:19	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	66.9	22.1	SW846 8260D	50	11/15/2024 22:19	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	66.9	18.7	SW846 8260D	50	11/15/2024 22:19	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	66.9	19.4	SW846 8260D	50	11/15/2024 22:19	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/kg	134	62.2	SW846 8260D	50	11/15/2024 22:19	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	134	40.1	SW846 8260D	50	11/15/2024 22:19	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	134	54.8	SW846 8260D	50	11/15/2024 22:19	BST	A
1,2,4-Trimethylbenzene	33.2J	J	ug/kg	66.9	16.7	SW846 8260D	50	11/15/2024 22:19	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	468	100	SW846 8260D	50	11/15/2024 22:19	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	66.9	18.7	SW846 8260D	50	11/15/2024 22:19	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	66.9	25.4	SW846 8260D	50	11/15/2024 22:19	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	66.9	21.4	SW846 8260D	50	11/15/2024 22:19	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	134	30.1	SW846 8260D	50	11/15/2024 22:19	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	66.9	16.1	SW846 8260D	50	11/15/2024 22:19	BST	A
1,3,5-Trimethylbenzene	ND	ND	ug/kg	66.9	13.4	SW846 8260D	50	11/15/2024 22:19	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	66.9	16.7	SW846 8260D	50	11/15/2024 22:19	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	66.9	18.1	SW846 8260D	50	11/15/2024 22:19	BST	A
2-Butanone	ND	ND	ug/kg	669	120	SW846 8260D	50	11/15/2024 22:19	BST	A
2-Hexanone	ND	ND	ug/kg	334	87.0	SW846 8260D	50	11/15/2024 22:19	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	334	100	SW846 8260D	50	11/15/2024 22:19	BST	A
Acetone	ND	ND	ug/kg	669	207	SW846 8260D	50	11/15/2024 22:19	BST	A
Benzene	1190		ug/kg	66.9	15.4	SW846 8260D	50	11/15/2024 22:19	BST	A
Bromochloromethane	ND	ND	ug/kg	66.9	21.4	SW846 8260D	50	11/15/2024 22:19	BST	A
Bromodichloromethane	ND	ND	ug/kg	66.9	18.1	SW846 8260D	50	11/15/2024 22:19	BST	A
Bromoform	ND	ND	ug/kg	66.9	26.8	SW846 8260D	50	11/15/2024 22:19	BST	A
Bromomethane	26.5J	J	ug/kg	66.9	26.1	SW846 8260D	50	11/15/2024 22:19	BST	A
Carbon Disulfide	17.2J	J	ug/kg	66.9	15.4	SW846 8260D	50	11/15/2024 22:19	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	66.9	20.7	SW846 8260D	50	11/15/2024 22:19	BST	A
Chlorobenzene	ND	ND	ug/kg	66.9	12.7	SW846 8260D	50	11/15/2024 22:19	BST	A
Chlorodibromomethane	ND	ND	ug/kg	66.9	30.1	SW846 8260D	50	11/15/2024 22:19	BST	A
Chloroethane	ND	ND	ug/kg	66.9	22.1	SW846 8260D	50	11/15/2024 22:19	BST	A

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	66.9	14.0	SW846 8260D	50	11/15/2024 22:19	BST	A
Chloromethane	ND	ND	ug/kg	66.9	20.7	SW846 8260D	50	11/15/2024 22:19	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	66.9	21.4	SW846 8260D	50	11/15/2024 22:19	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	66.9	20.7	SW846 8260D	50	11/15/2024 22:19	BST	A
Cyclohexane	22.4J	J	ug/kg	66.9	19.4	SW846 8260D	50	11/15/2024 22:19	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	66.9	22.1	SW846 8260D	50	11/15/2024 22:19	BST	A
Ethylbenzene	52.5J	J	ug/kg	66.9	22.7	SW846 8260D	50	11/15/2024 22:19	BST	A
Freon 113	ND	ND	ug/kg	66.9	17.4	SW846 8260D	50	11/15/2024 22:19	BST	A
Isopropylbenzene	15.2J	J	ug/kg	66.9	14.7	SW846 8260D	50	11/15/2024 22:19	BST	A
Methyl acetate	123J	J	ug/kg	134	21.4	SW846 8260D	50	11/15/2024 22:19	BST	A
Methyl cyclohexane	87.0		ug/kg	66.9	20.1	SW846 8260D	50	11/15/2024 22:19	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	66.9	22.1	SW846 8260D	50	11/15/2024 22:19	BST	A
Methylene Chloride	ND	ND	ug/kg	66.9	30.1	SW846 8260D	50	11/15/2024 22:19	BST	A
mp-Xylene	95.9J	J	ug/kg	134	34.8	SW846 8260D	50	11/15/2024 22:19	BST	A
o-Xylene	40.3J	J	ug/kg	66.9	22.1	SW846 8260D	50	11/15/2024 22:19	BST	A
Styrene	ND	ND	ug/kg	66.9	16.1	SW846 8260D	50	11/15/2024 22:19	BST	A
Tetrachloroethene	ND	ND	ug/kg	66.9	23.4	SW846 8260D	50	11/15/2024 22:19	BST	A
Toluene	225		ug/kg	66.9	15.4	SW846 8260D	50	11/15/2024 22:19	BST	A
Total Xylenes	136J	J	ug/kg	201	44.1	SW846 8260D	50	11/15/2024 22:19	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	66.9	17.4	SW846 8260D	50	11/15/2024 22:19	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	66.9	19.4	SW846 8260D	50	11/15/2024 22:19	BST	A
Trichloroethene	ND	ND	ug/kg	66.9	22.1	SW846 8260D	50	11/15/2024 22:19	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	66.9	16.1	SW846 8260D	50	11/15/2024 22:19	BST	A
Vinyl Chloride	ND	ND	ug/kg	66.9	20.1	SW846 8260D	50	11/15/2024 22:19	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	90.2%	71 – 146	11/15/2024 22:19	
4-Bromofluorobenzene	460-00-4	95.7%	46 – 138	11/15/2024 22:19	
Dibromofluoromethane	1868-53-7	83.8%	42 – 143	11/15/2024 22:19	
Toluene-d8	2037-26-5	97%	54 – 141	11/15/2024 22:19	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	25.1		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A
Total Solids	74.9		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A

Results

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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	8770	S1,S2,S3	mg/kg	12.2	4.1	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Antimony, Total	ND	ND,S1,S2,S3	mg/kg	2.4	0.82	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Arsenic, Total	7.3	S1,S2,S3	mg/kg	2.4	0.82	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Barium, Total	103	S1,S2,S3	mg/kg	1.2	0.41	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Beryllium, Total	1.3	S1,S2,S3	mg/kg	1.2	0.41	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Cadmium, Total	1.4	S1,S2,S3	mg/kg	0.61	0.20	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Calcium, Total	62900	S1,S2,S3	mg/kg	12.2	4.1	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Chromium, Total	17.0	S1,S2,S3	mg/kg	1.2	0.41	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Cobalt, Total	14.8	S1,S2,S3	mg/kg	1.2	0.41	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Copper, Total	37.7	S1,S2,S3	mg/kg	2.4	0.82	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Iron, Total	30300	S1,S2,S3	mg/kg	12.2	4.1	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Lead, Total	53.4	S1,S2,S3	mg/kg	2.4	0.82	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Magnesium, Total	10800	S1,S2,S3	mg/kg	12.2	4.1	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Manganese, Total	1090	S1,S2,S3	mg/kg	1.2	0.41	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Mercury, Total	0.19	S1,S2,S3	mg/kg	0.060	0.019	SW846 7471B	1	11/26/2024 09:49	JMS	F
Nickel, Total	10.9	S1,S2,S3	mg/kg	2.4	0.82	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Potassium, Total	1740	S1,S2,S3	mg/kg	61.1	20.4	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Selenium, Total	7.2	S1,S2,S3	mg/kg	6.1	2.0	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Silver, Total	ND	ND,S1,S2,S3	mg/kg	0.61	0.20	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Sodium, Total	480	S1,S2,S3	mg/kg	61.1	20.4	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Thallium, Total	3.4J	J,S1,S2,S3	mg/kg	3.7	1.2	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Vanadium, Total	14.7	S1,S2,S3	mg/kg	1.2	0.41	SW846 6010C	1	11/19/2024 09:39	MSY	F1
Zinc, Total	241	S1,S2,S3	mg/kg	2.4	0.82	SW846 6010C	1	11/19/2024 09:39	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
1,4-Dioxane	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND,S1,S2,S3	ug/kg	900	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
2,4,5-Trichlorophenol	ND	ND,S1,S2,S3	ug/kg	900	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
2,4,6-Trichlorophenol	ND	ND,S1,S2,S3	ug/kg	900	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
2,4-Dichlorophenol	ND	ND,S1,S2,S3	ug/kg	900	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
2,4-Dimethylphenol	ND	ND,S1,S2,S3	ug/kg	900	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
2,4-Dinitrophenol	ND	ND,S1,S2,S3	ug/kg	1800	891	SW846 8270E	4	11/18/2024 16:39	S7M	F
2,4-Dinitrotoluene	ND	ND,28,S1,S2,S3	ug/kg	450	90.0	SW846 8270E	4	11/18/2024 16:39	S7M	F
2,6-Dinitrotoluene	ND	ND,S1,S2,S3	ug/kg	450	153	SW846 8270E	4	11/18/2024 16:39	S7M	F

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
2-Chloronaphthalene	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
2-Chlorophenol	ND	ND,S1,S2,S3	ug/kg	900	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,S1,S2,S3	ug/kg	900	225	SW846 8270E	4	11/18/2024 16:39	S7M	F
2-Methylnaphthalene	216J	J,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
2-Nitroaniline	ND	ND,S1,S2,S3	ug/kg	900	103	SW846 8270E	4	11/18/2024 16:39	S7M	F
2-Nitrophenol	ND	ND,43,S1,S2,S3	ug/kg	900	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
3,3-Dichlorobenzidine	ND	ND,S1,S2,S3	ug/kg	900	139	SW846 8270E	4	11/18/2024 16:39	S7M	F
3-Nitroaniline	ND	ND,S1,S2,S3	ug/kg	900	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
4-Bromophenyl-phenylether	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
4-Chloro-3-methylphenol	ND	ND,S1,S2,S3	ug/kg	900	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
4-Chloroaniline	ND	ND,S1,S2,S3	ug/kg	900	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
4-Chlorophenyl-phenylether	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
4-Nitroaniline	ND	ND,42,S1,S2,S3	ug/kg	900	130	SW846 8270E	4	11/18/2024 16:39	S7M	F
4-Nitrophenol	ND	ND,S1,S2,S3	ug/kg	900	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
Acenaphthene	157J	J,S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Acenaphthylene	601	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Acetophenone	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Anthracene	724	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Atrazine	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Benzaldehyde	ND	ND,S1,S2,S3	ug/kg	900	90.0	SW846 8270E	4	11/18/2024 16:39	S7M	F
Benzo(a)anthracene	1380	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Benzo(a)pyrene	1380	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Benzo(b)fluoranthene	1210	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Benzo(g,h,i)perylene	774	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Benzo(k)fluoranthene	1170	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Biphenyl	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
bis(2-Chloroethoxy)methane	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
bis(2-Chloroethyl)ether	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND,S1,S2,S3	ug/kg	450	98.9	SW846 8270E	4	11/18/2024 16:39	S7M	F
Butylbenzylphthalate	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Caprolactam	ND	ND,S1,S2,S3	ug/kg	900	175	SW846 8270E	4	11/18/2024 16:39	S7M	F
Carbazole	144J	J,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Chrysene	1450	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Dibenzo(a,h)anthracene	227	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Dibenzofuran	134J	J,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Diethylphthalate	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Dimethylphthalate	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Di-n-Butylphthalate	ND	ND,S1,S2,S3	ug/kg	450	157	SW846 8270E	4	11/18/2024 16:39	S7M	F
Di-n-Octylphthalate	ND	ND,22,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Fluoranthene	3260	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Fluorene	255	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Hexachlorobenzene	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Hexachlorobutadiene	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Hexachlorocyclopentadiene	ND	ND,S1,S2,S3	ug/kg	900	135	SW846 8270E	4	11/18/2024 16:39	S7M	F
Hexachloroethane	ND	ND,S1,S2,S3	ug/kg	450	103	SW846 8270E	4	11/18/2024 16:39	S7M	F
Indeno(1,2,3-cd)pyrene	802	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Isophorone	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
mp-Cresol	ND	ND,S1,S2,S3	ug/kg	900	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
Naphthalene	452	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Nitrobenzene	ND	ND,S1,S2,S3	ug/kg	450	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
N-Nitroso-di-n-propylamine	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
N-Nitrosodiphenylamine	ND	ND,S1,S2,S3	ug/kg	450	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
o-Cresol	ND	ND,S1,S2,S3	ug/kg	900	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
Pentachlorophenol	ND	ND,S1,S2,S3	ug/kg	900	220	SW846 8270E	4	11/18/2024 16:39	S7M	F
Phenanthrene	2080	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F
Phenol	ND	ND,S1,S2,S3	ug/kg	900	153	SW846 8270E	4	11/18/2024 16:39	S7M	F
Pyrene	2270	S1,S2,S3	ug/kg	225	76.5	SW846 8270E	4	11/18/2024 16:39	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	71.8%	19 – 132	11/18/2024 16:39	
2-Fluorobiphenyl	321-60-8	72.2%	40 – 110	11/18/2024 16:39	
2-Fluorophenol	367-12-4	65.9%	26 – 116	11/18/2024 16:39	
Nitrobenzene-d5	4165-60-0	77.3%	38 – 112	11/18/2024 16:39	
Phenol-d5	4165-62-2	72.6%	35 – 111	11/18/2024 16:39	
Terphenyl-d14	98904-43-9	91.3%	45 – 126	11/18/2024 16:39	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,S1,S2,S3	ug/kg	2.9	0.90	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,1,2,2-Tetrachloroethane	ND	ND,S1,S2,S3	ug/kg	2.9	0.81	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,1,2-Trichloroethane	ND	ND,S1,S2,S3	ug/kg	2.9	0.81	SW846 8260D	1	11/21/2024 01:01	PDK	C

Results

Client Sample ID	SB-210-9	Collected	11/12/2024 15:40
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1-Dichloroethane	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,1-Dichloroethene	ND	ND,S1,S2,S3	ug/kg	2.9	0.75	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,2,3-Trichlorobenzene	ND	ND,71,S1,S2,S3	ug/kg	7.2	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,2,3-Trichloropropane	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,2,4-Trichlorobenzene	ND	ND,72,73,S1,S2,S3	ug/kg	7.2	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,2,4-Trimethylbenzene	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,2-Dibromo-3-chloropropane	ND	ND,S1,S2,S3	ug/kg	2.9	0.36	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,2-Dibromoethane	ND	ND,S1,S2,S3	ug/kg	2.9	0.78	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,2-Dichlorobenzene	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,2-Dichloroethane	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,2-Dichloroethene, Total	ND	ND,S1,S2,S3	ug/kg	5.8	0.97	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,2-Dichloropropane	ND	ND,S1,S2,S3	ug/kg	2.9	0.87	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,3,5-Trimethylbenzene	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,3-Dichlorobenzene	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
1,4-Dichlorobenzene	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
2-Butanone	ND	ND,S1,S2,S3	ug/kg	14.4	4.6	SW846 8260D	1	11/21/2024 01:01	PDK	C
2-Hexanone	ND	ND,S1,S2,S3	ug/kg	14.4	4.0	SW846 8260D	1	11/21/2024 01:01	PDK	C
4-Methyl-2-Pentanone(MIBK)	ND	ND,S1,S2,S3	ug/kg	14.4	5.5	SW846 8260D	1	11/21/2024 01:01	PDK	C
Acetone	ND	ND,S1,S2,S3	ug/kg	14.4	6.6	SW846 8260D	1	11/21/2024 01:01	PDK	C
Benzene	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
Bromochloromethane	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
Bromodichloromethane	ND	ND,S1,S2,S3	ug/kg	2.9	1.0	SW846 8260D	1	11/21/2024 01:01	PDK	C
Bromoform	ND	ND,S1,S2,S3	ug/kg	2.9	0.75	SW846 8260D	1	11/21/2024 01:01	PDK	C
Bromomethane	27.4	S1,S2,S3	ug/kg	2.9	0.75	SW846 8260D	1	11/21/2024 01:01	PDK	C
Carbon Disulfide	ND	ND,S1,S2,S3	ug/kg	2.9	0.91	SW846 8260D	1	11/21/2024 01:01	PDK	C
Carbon Tetrachloride	ND	ND,S1,S2,S3	ug/kg	2.9	0.74	SW846 8260D	1	11/21/2024 01:01	PDK	C
Chlorobenzene	ND	ND,S1,S2,S3	ug/kg	2.9	0.74	SW846 8260D	1	11/21/2024 01:01	PDK	C
Chlorodibromomethane	ND	ND,S1,S2,S3	ug/kg	2.9	0.98	SW846 8260D	1	11/21/2024 01:01	PDK	C
Chloroethane	ND	ND,S1,S2,S3	ug/kg	7.2	1.2	SW846 8260D	1	11/21/2024 01:01	PDK	C
Chloroform	ND	ND,S1,S2,S3	ug/kg	2.9	0.77	SW846 8260D	1	11/21/2024 01:01	PDK	C
Chloromethane	ND	ND,S1,S2,S3	ug/kg	2.9	0.79	SW846 8260D	1	11/21/2024 01:01	PDK	C
cis-1,2-Dichloroethene	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
cis-1,3-Dichloropropene	ND	ND,S1,S2,S3	ug/kg	2.9	0.79	SW846 8260D	1	11/21/2024 01:01	PDK	C
Cyclohexane	ND	ND,S1,S2,S3	ug/kg	2.9	0.74	SW846 8260D	1	11/21/2024 01:01	PDK	C
Dichlorodifluoromethane	ND	ND,S1,S2,S3	ug/kg	2.9	0.97	SW846 8260D	1	11/21/2024 01:01	PDK	C

Results

Client Sample ID	SB-210-9	Collected	11/12/2024 15:40
Lab Sample ID	3387420006	Lab Receipt	11/13/2024 08:55

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethylbenzene	ND	ND,S1,S2,S3	ug/kg	2.9	0.98	SW846 8260D	1	11/21/2024 01:01	PDK	C
Freon 113	ND	ND,69,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
Isopropylbenzene	ND	ND,S1,S2,S3	ug/kg	2.9	0.88	SW846 8260D	1	11/21/2024 01:01	PDK	C
Methyl acetate	ND	ND,S1,S2,S3	ug/kg	2.9	0.85	SW846 8260D	1	11/21/2024 01:01	PDK	C
Methyl cyclohexane	ND	ND,S1,S2,S3	ug/kg	2.9	0.81	SW846 8260D	1	11/21/2024 01:01	PDK	C
Methyl t-Butyl Ether	ND	ND,70,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
Methylene Chloride	ND	ND,S1,S2,S3	ug/kg	2.9	1.1	SW846 8260D	1	11/21/2024 01:01	PDK	C
mp-Xylene	ND	ND,S1,S2,S3	ug/kg	5.8	1.2	SW846 8260D	1	11/21/2024 01:01	PDK	C
o-Xylene	ND	ND,S1,S2,S3	ug/kg	2.9	0.84	SW846 8260D	1	11/21/2024 01:01	PDK	C
Styrene	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
Tetrachloroethene	ND	ND,S1,S2,S3	ug/kg	2.9	0.87	SW846 8260D	1	11/21/2024 01:01	PDK	C
Toluene	ND	ND,S1,S2,S3	ug/kg	2.9	0.97	SW846 8260D	1	11/21/2024 01:01	PDK	C
Total Xylenes	ND	ND,S1,S2,S3	ug/kg	8.7	2.0	SW846 8260D	1	11/21/2024 01:01	PDK	C
trans-1,2-Dichloroethene	ND	ND,S1,S2,S3	ug/kg	2.9	0.75	SW846 8260D	1	11/21/2024 01:01	PDK	C
trans-1,3-Dichloropropene	ND	ND,S1,S2,S3	ug/kg	2.9	0.84	SW846 8260D	1	11/21/2024 01:01	PDK	C
Trichloroethene	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
Trichlorofluoromethane	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C
Vinyl Chloride	ND	ND,S1,S2,S3	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 01:01	PDK	C

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	138*%	56 – 124	11/21/2024 01:01	68
4-Bromofluorobenzene	460-00-4	98.2%	51 – 128	11/21/2024 01:01	
Dibromofluoromethane	1868-53-7	115%	62 – 123	11/21/2024 01:01	
Toluene-d8	2037-26-5	91.9%	59 – 131	11/21/2024 01:01	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	19.1	S1,S2,S3	%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A
Total Solids	80.9	S1,S2,S3	%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A

Results

Client Sample ID	SB-210-9D	Collected	11/12/2024 16:00
Lab Sample ID	3387420007	Lab Receipt	11/13/2024 08:55

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	5780		mg/kg	12.9	4.3	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Antimony, Total	ND	ND	mg/kg	2.6	0.86	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Arsenic, Total	6.2		mg/kg	2.6	0.86	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Barium, Total	70.9		mg/kg	1.3	0.43	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Beryllium, Total	0.94J	J	mg/kg	1.3	0.43	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Cadmium, Total	1.2		mg/kg	0.64	0.21	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Calcium, Total	44600		mg/kg	12.9	4.3	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Chromium, Total	18.9		mg/kg	1.3	0.43	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Cobalt, Total	12.4		mg/kg	1.3	0.43	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Copper, Total	50.1		mg/kg	2.6	0.86	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Iron, Total	27900		mg/kg	12.9	4.3	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Lead, Total	41.5		mg/kg	2.6	0.86	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Magnesium, Total	6970		mg/kg	12.9	4.3	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Manganese, Total	887		mg/kg	1.3	0.43	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Mercury, Total	0.20		mg/kg	0.060	0.019	SW846 7471B	1	11/26/2024 10:00	JMS	F
Nickel, Total	10.9		mg/kg	2.6	0.86	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Potassium, Total	801		mg/kg	64.3	21.5	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Selenium, Total	6.3J	J	mg/kg	6.4	2.1	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Silver, Total	ND	ND	mg/kg	0.64	0.21	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Sodium, Total	241		mg/kg	64.3	21.5	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Thallium, Total	2.8J	J	mg/kg	3.9	1.3	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Vanadium, Total	12.7		mg/kg	1.3	0.43	SW846 6010C	1	11/19/2024 09:40	MSY	F1
Zinc, Total	337		mg/kg	2.6	0.86	SW846 6010C	1	11/19/2024 09:40	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
1,4-Dioxane	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	935	159	SW846 8270E	4	11/18/2024 17:04	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	935	159	SW846 8270E	4	11/18/2024 17:04	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	935	159	SW846 8270E	4	11/18/2024 17:04	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	935	159	SW846 8270E	4	11/18/2024 17:04	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	935	159	SW846 8270E	4	11/18/2024 17:04	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	1870	926	SW846 8270E	4	11/18/2024 17:04	S7M	F
2,4-Dinitrotoluene	ND	ND,28	ug/kg	467	93.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	467	159	SW846 8270E	4	11/18/2024 17:04	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
2-Chlorophenol	ND	ND	ug/kg	935	159	SW846 8270E	4	11/18/2024 17:04	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	935	234	SW846 8270E	4	11/18/2024 17:04	S7M	F
2-Methylnaphthalene	220J	J	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
2-Nitroaniline	ND	ND	ug/kg	935	108	SW846 8270E	4	11/18/2024 17:04	S7M	F
2-Nitrophenol	ND	ND,43	ug/kg	935	159	SW846 8270E	4	11/18/2024 17:04	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	935	145	SW846 8270E	4	11/18/2024 17:04	S7M	F
3-Nitroaniline	ND	ND	ug/kg	935	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	935	159	SW846 8270E	4	11/18/2024 17:04	S7M	F

Results

Client Sample ID	SB-210-9D	Collected	11/12/2024 16:00
Lab Sample ID	3387420007	Lab Receipt	11/13/2024 08:55

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	935	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
4-Nitroaniline	ND	ND,42	ug/kg	935	136	SW846 8270E	4	11/18/2024 17:04	S7M	F
4-Nitrophenol	ND	ND	ug/kg	935	159	SW846 8270E	4	11/18/2024 17:04	S7M	F
Acenaphthene	120J	J	ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Acenaphthylene	842		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Acetophenone	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Anthracene	937		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Atrazine	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Benzaldehyde	ND	ND	ug/kg	935	93.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Benzo(a)anthracene	2020		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Benzo(a)pyrene	2240		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Benzo(b)fluoranthene	2150		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Benzo(g,h,i)perylene	1350		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Benzo(k)fluoranthene	1880		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Biphenyl	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	467	103	SW846 8270E	4	11/18/2024 17:04	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Caprolactam	ND	ND	ug/kg	935	182	SW846 8270E	4	11/18/2024 17:04	S7M	F
Carbazole	207J	J	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Chrysene	2160		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Dibenzo(a,h)anthracene	381		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Dibenzofuran	137J	J	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Diethylphthalate	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Dimethylphthalate	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	467	164	SW846 8270E	4	11/18/2024 17:04	S7M	F
Di-n-Octylphthalate	ND	ND,22	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Fluoranthene	4560		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Fluorene	258		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	935	140	SW846 8270E	4	11/18/2024 17:04	S7M	F
Hexachloroethane	ND	ND	ug/kg	467	108	SW846 8270E	4	11/18/2024 17:04	S7M	F
Indeno(1,2,3-cd)pyrene	1380		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Isophorone	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
mp-Cresol	ND	ND	ug/kg	935	159	SW846 8270E	4	11/18/2024 17:04	S7M	F
Naphthalene	629		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Nitrobenzene	ND	ND	ug/kg	467	159	SW846 8270E	4	11/18/2024 17:04	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	467	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
o-Cresol	ND	ND	ug/kg	935	159	SW846 8270E	4	11/18/2024 17:04	S7M	F
Pentachlorophenol	ND	ND	ug/kg	935	229	SW846 8270E	4	11/18/2024 17:04	S7M	F
Phenanthrene	2420		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F
Phenol	ND	ND	ug/kg	935	159	SW846 8270E	4	11/18/2024 17:04	S7M	F

Results

Client Sample ID	SB-210-9D	Collected	11/12/2024 16:00
Lab Sample ID	3387420007	Lab Receipt	11/13/2024 08:55

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	3200		ug/kg	234	79.5	SW846 8270E	4	11/18/2024 17:04	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	79.5%	19 – 132	11/18/2024 17:04	
2-Fluorobiphenyl	321-60-8	76.7%	40 – 110	11/18/2024 17:04	
2-Fluorophenol	367-12-4	74.3%	26 – 116	11/18/2024 17:04	
Nitrobenzene-d5	4165-60-0	82.3%	38 – 112	11/18/2024 17:04	
Phenol-d5	4165-62-2	77.8%	35 – 111	11/18/2024 17:04	
Terphenyl-d14	98904-43-9	95.9%	45 – 126	11/18/2024 17:04	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	3.2	0.98	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	3.2	0.89	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/kg	3.2	0.89	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,1-Dichloroethane	ND	ND	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,1-Dichloroethene	ND	ND	ug/kg	3.2	0.82	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,2,3-Trichlorobenzene	ND	ND,71,79	ug/kg	7.9	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,2,4-Trichlorobenzene	ND	ND,72,73,80	ug/kg	7.9	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,2,4-Trimethylbenzene	ND	ND	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	3.2	0.40	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,2-Dibromoethane	ND	ND	ug/kg	3.2	0.85	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,2-Dichlorobenzene	ND	ND,75	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,2-Dichloroethane	ND	ND	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,2-Dichloroethene, Total	ND	ND	ug/kg	6.3	1.1	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,2-Dichloropropane	ND	ND	ug/kg	3.2	0.95	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,3,5-Trimethylbenzene	ND	ND	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
1,4-Dichlorobenzene	ND	ND,76	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
2-Butanone	ND	ND	ug/kg	15.8	5.1	SW846 8260D	1	11/21/2024 05:38	PDK	B
2-Hexanone	ND	ND	ug/kg	15.8	4.4	SW846 8260D	1	11/21/2024 05:38	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	15.8	6.0	SW846 8260D	1	11/21/2024 05:38	PDK	B
Acetone	ND	ND	ug/kg	15.8	7.3	SW846 8260D	1	11/21/2024 05:38	PDK	B
Benzene	1.1J	J	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
Bromochloromethane	ND	ND	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
Bromodichloromethane	ND	ND	ug/kg	3.2	1.1	SW846 8260D	1	11/21/2024 05:38	PDK	B
Bromoform	ND	ND	ug/kg	3.2	0.82	SW846 8260D	1	11/21/2024 05:38	PDK	B
Bromomethane	ND	ND	ug/kg	3.2	0.82	SW846 8260D	1	11/21/2024 05:38	PDK	B
Carbon Disulfide	ND	ND	ug/kg	3.2	1.0	SW846 8260D	1	11/21/2024 05:38	PDK	B
Carbon Tetrachloride	ND	ND	ug/kg	3.2	0.81	SW846 8260D	1	11/21/2024 05:38	PDK	B
Chlorobenzene	ND	ND	ug/kg	3.2	0.81	SW846 8260D	1	11/21/2024 05:38	PDK	B
Chlorodibromomethane	ND	ND,74	ug/kg	3.2	1.1	SW846 8260D	1	11/21/2024 05:38	PDK	B

Results

Client Sample ID	SB-210-9D	Collected	11/12/2024 16:00
Lab Sample ID	3387420007	Lab Receipt	11/13/2024 08:55

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroethane	ND	ND	ug/kg	7.9	1.3	SW846 8260D	1	11/21/2024 05:38	PDK	B
Chloroform	ND	ND	ug/kg	3.2	0.84	SW846 8260D	1	11/21/2024 05:38	PDK	B
Chloromethane	ND	ND	ug/kg	3.2	0.87	SW846 8260D	1	11/21/2024 05:38	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/kg	3.2	0.87	SW846 8260D	1	11/21/2024 05:38	PDK	B
Cyclohexane	ND	ND	ug/kg	3.2	0.81	SW846 8260D	1	11/21/2024 05:38	PDK	B
Dichlorodifluoromethane	ND	ND	ug/kg	3.2	1.1	SW846 8260D	1	11/21/2024 05:38	PDK	B
Ethylbenzene	ND	ND	ug/kg	3.2	1.1	SW846 8260D	1	11/21/2024 05:38	PDK	B
Freon 113	ND	ND,69,77	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
Isopropylbenzene	ND	ND	ug/kg	3.2	0.96	SW846 8260D	1	11/21/2024 05:38	PDK	B
Methyl acetate	ND	ND,78	ug/kg	3.2	0.93	SW846 8260D	1	11/21/2024 05:38	PDK	B
Methyl cyclohexane	ND	ND	ug/kg	3.2	0.89	SW846 8260D	1	11/21/2024 05:38	PDK	B
Methyl t-Butyl Ether	ND	ND,70	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
Methylene Chloride	1.4J	J	ug/kg	3.2	1.2	SW846 8260D	1	11/21/2024 05:38	PDK	B
mp-Xylene	ND	ND	ug/kg	6.3	1.3	SW846 8260D	1	11/21/2024 05:38	PDK	B
o-Xylene	ND	ND	ug/kg	3.2	0.92	SW846 8260D	1	11/21/2024 05:38	PDK	B
Styrene	ND	ND	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
Tetrachloroethene	ND	ND	ug/kg	3.2	0.95	SW846 8260D	1	11/21/2024 05:38	PDK	B
Toluene	ND	ND	ug/kg	3.2	1.1	SW846 8260D	1	11/21/2024 05:38	PDK	B
Total Xylenes	ND	ND	ug/kg	9.5	2.2	SW846 8260D	1	11/21/2024 05:38	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/kg	3.2	0.82	SW846 8260D	1	11/21/2024 05:38	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/kg	3.2	0.92	SW846 8260D	1	11/21/2024 05:38	PDK	B
Trichloroethene	ND	ND	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
Trichlorofluoromethane	ND	ND	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B
Vinyl Chloride	ND	ND	ug/kg	3.2	0.79	SW846 8260D	1	11/21/2024 05:38	PDK	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	56 – 124	11/21/2024 05:38	
4-Bromofluorobenzene	460-00-4	111%	51 – 128	11/21/2024 05:38	
Dibromofluoromethane	1868-53-7	100%	62 – 123	11/21/2024 05:38	
Toluene-d8	2037-26-5	106%	59 – 131	11/21/2024 05:38	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	23.6		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A
Total Solids	76.4		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A

Results

Client Sample ID	SB-206-12	Collected	11/12/2024 13:45
Lab Sample ID	3387420008	Lab Receipt	11/13/2024 08:55

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	7820		mg/kg	14.0	4.7	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Antimony, Total	ND	ND	mg/kg	2.8	0.93	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Arsenic, Total	8.2		mg/kg	2.8	0.93	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Barium, Total	67.0		mg/kg	1.4	0.47	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Beryllium, Total	1.1J	J	mg/kg	1.4	0.47	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Cadmium, Total	1.9		mg/kg	0.70	0.23	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Calcium, Total	32600		mg/kg	14.0	4.7	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Chromium, Total	19.2		mg/kg	1.4	0.47	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Cobalt, Total	19.9		mg/kg	1.4	0.47	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Copper, Total	59.5		mg/kg	2.8	0.93	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Iron, Total	34300		mg/kg	14.0	4.7	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Lead, Total	63.4		mg/kg	2.8	0.93	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Magnesium, Total	11900		mg/kg	14.0	4.7	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Manganese, Total	1050		mg/kg	1.4	0.47	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Mercury, Total	0.31		mg/kg	0.068	0.022	SW846 7471B	1	11/26/2024 09:50	JMS	F
Nickel, Total	17.4		mg/kg	2.8	0.93	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Potassium, Total	765		mg/kg	70.0	23.4	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Selenium, Total	6.6J	J	mg/kg	7.0	2.3	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Silver, Total	ND	ND	mg/kg	0.70	0.23	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Sodium, Total	178		mg/kg	70.0	23.4	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Thallium, Total	4.6		mg/kg	4.2	1.4	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Vanadium, Total	12.2		mg/kg	1.4	0.47	SW846 6010C	1	11/19/2024 09:41	MSY	F1
Zinc, Total	211		mg/kg	2.8	0.93	SW846 6010C	1	11/19/2024 09:41	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
1,4-Dioxane	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	1190	201	SW846 8270E	4	11/18/2024 17:29	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	1190	201	SW846 8270E	4	11/18/2024 17:29	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	1190	201	SW846 8270E	4	11/18/2024 17:29	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	1190	201	SW846 8270E	4	11/18/2024 17:29	S7M	F
2,4-Dimethylphenol	597J	J	ug/kg	1190	201	SW846 8270E	4	11/18/2024 17:29	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	2370	1170	SW846 8270E	4	11/18/2024 17:29	S7M	F
2,4-Dinitrotoluene	ND	ND,28	ug/kg	593	119	SW846 8270E	4	11/18/2024 17:29	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	593	201	SW846 8270E	4	11/18/2024 17:29	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
2-Chlorophenol	ND	ND	ug/kg	1190	201	SW846 8270E	4	11/18/2024 17:29	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	1190	296	SW846 8270E	4	11/18/2024 17:29	S7M	F
2-Methylnaphthalene	6560		ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
2-Nitroaniline	ND	ND	ug/kg	1190	136	SW846 8270E	4	11/18/2024 17:29	S7M	F
2-Nitrophenol	ND	ND,43	ug/kg	1190	201	SW846 8270E	4	11/18/2024 17:29	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	1190	184	SW846 8270E	4	11/18/2024 17:29	S7M	F
3-Nitroaniline	ND	ND	ug/kg	1190	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	1190	201	SW846 8270E	4	11/18/2024 17:29	S7M	F

Results

Client Sample ID	SB-206-12	Collected	11/12/2024 13:45
Lab Sample ID	3387420008	Lab Receipt	11/13/2024 08:55

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	1190	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
4-Nitroaniline	ND	ND,42	ug/kg	1190	172	SW846 8270E	4	11/18/2024 17:29	S7M	F
4-Nitrophenol	ND	ND	ug/kg	1190	201	SW846 8270E	4	11/18/2024 17:29	S7M	F
Acenaphthene	11700		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Acenaphthylene	1830		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Acetophenone	143J	J	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Anthracene	7030		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Atrazine	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Benzaldehyde	ND	ND	ug/kg	1190	119	SW846 8270E	4	11/18/2024 17:29	S7M	F
Benzo(a)anthracene	8000		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Benzo(a)pyrene	6960		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Benzo(b)fluoranthene	6390		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Benzo(g,h,i)perylene	3410		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Benzo(k)fluoranthene	5790		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Biphenyl	1340		ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	593	130	SW846 8270E	4	11/18/2024 17:29	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Caprolactam	ND	ND	ug/kg	1190	231	SW846 8270E	4	11/18/2024 17:29	S7M	F
Carbazole	9320		ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Chrysene	8350		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Dibenzo(a,h)anthracene	1100		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Dibenzofuran	8590		ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Diethylphthalate	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Dimethylphthalate	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	593	207	SW846 8270E	4	11/18/2024 17:29	S7M	F
Di-n-Octylphthalate	ND	ND,22	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Fluoranthene	21600		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Fluorene	13500		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	1190	178	SW846 8270E	4	11/18/2024 17:29	S7M	F
Hexachloroethane	ND	ND	ug/kg	593	136	SW846 8270E	4	11/18/2024 17:29	S7M	F
Indeno(1,2,3-cd)pyrene	3830		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Isophorone	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
mp-Cresol	413J	J	ug/kg	1190	201	SW846 8270E	4	11/18/2024 17:29	S7M	F
Naphthalene	193000		ug/kg	2960	1010	SW846 8270E	40	11/21/2024 04:28	M1O	F
Nitrobenzene	ND	ND	ug/kg	593	201	SW846 8270E	4	11/18/2024 17:29	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	593	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
o-Cresol	ND	ND	ug/kg	1190	201	SW846 8270E	4	11/18/2024 17:29	S7M	F
Pentachlorophenol	ND	ND	ug/kg	1190	290	SW846 8270E	4	11/18/2024 17:29	S7M	F
Phenanthrene	33100		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F
Phenol	572J	J	ug/kg	1190	201	SW846 8270E	4	11/18/2024 17:29	S7M	F

Results

Client Sample ID	SB-206-12	Collected	11/12/2024 13:45
Lab Sample ID	3387420008	Lab Receipt	11/13/2024 08:55

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	14300		ug/kg	296	101	SW846 8270E	4	11/18/2024 17:29	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	86.8%	19 – 132	11/18/2024 17:29	
2-Fluorobiphenyl	321-60-8	74.6%	40 – 110	11/18/2024 17:29	
2-Fluorophenol	367-12-4	79.2%	26 – 116	11/18/2024 17:29	
Nitrobenzene-d5	4165-60-0	84.2%	38 – 112	11/18/2024 17:29	
Phenol-d5	4165-62-2	79.1%	35 – 111	11/18/2024 17:29	
Terphenyl-d14	98904-43-9	94.8%	45 – 126	11/18/2024 17:29	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	3840	844	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	3840	1300	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	3840	1270	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	3840	1070	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	3840	1110	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/kg	7670	3570	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	7670	2300	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	7670	3140	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,2,4-Trimethylbenzene	2050J	J	ug/kg	3840	959	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	26800	5750	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	3840	1070	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	3840	1460	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	3840	1230	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	7670	1730	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	3840	920	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,3,5-Trimethylbenzene	ND	ND	ug/kg	3840	767	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	3840	959	SW846 8260D	2000	11/16/2024 01:23	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	3840	1040	SW846 8260D	2000	11/16/2024 01:23	BST	A
2-Butanone	ND	ND	ug/kg	38400	6900	SW846 8260D	2000	11/16/2024 01:23	BST	A
2-Hexanone	ND	ND	ug/kg	19200	4990	SW846 8260D	2000	11/16/2024 01:23	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	19200	5750	SW846 8260D	2000	11/16/2024 01:23	BST	A
Acetone	ND	ND	ug/kg	38400	11900	SW846 8260D	2000	11/16/2024 01:23	BST	A
Benzene	62000		ug/kg	3840	882	SW846 8260D	2000	11/16/2024 01:23	BST	A
Bromochloromethane	ND	ND	ug/kg	3840	1230	SW846 8260D	2000	11/16/2024 01:23	BST	A
Bromodichloromethane	ND	ND	ug/kg	3840	1040	SW846 8260D	2000	11/16/2024 01:23	BST	A
Bromoform	ND	ND	ug/kg	3840	1530	SW846 8260D	2000	11/16/2024 01:23	BST	A
Bromomethane	ND	ND	ug/kg	3840	1500	SW846 8260D	2000	11/16/2024 01:23	BST	A
Carbon Disulfide	ND	ND	ug/kg	3840	882	SW846 8260D	2000	11/16/2024 01:23	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	3840	1190	SW846 8260D	2000	11/16/2024 01:23	BST	A
Chlorobenzene	ND	ND	ug/kg	3840	729	SW846 8260D	2000	11/16/2024 01:23	BST	A
Chlorodibromomethane	ND	ND	ug/kg	3840	1730	SW846 8260D	2000	11/16/2024 01:23	BST	A
Chloroethane	ND	ND	ug/kg	3840	1270	SW846 8260D	2000	11/16/2024 01:23	BST	A

Results

Client Sample ID	SB-206-12	Collected	11/12/2024 13:45
Lab Sample ID	3387420008	Lab Receipt	11/13/2024 08:55

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	3840	805	SW846 8260D	2000	11/16/2024 01:23	BST	A
Chloromethane	ND	ND	ug/kg	3840	1190	SW846 8260D	2000	11/16/2024 01:23	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	3840	1230	SW846 8260D	2000	11/16/2024 01:23	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	3840	1190	SW846 8260D	2000	11/16/2024 01:23	BST	A
Cyclohexane	ND	ND	ug/kg	3840	1110	SW846 8260D	2000	11/16/2024 01:23	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	3840	1270	SW846 8260D	2000	11/16/2024 01:23	BST	A
Ethylbenzene	3470J	J	ug/kg	3840	1300	SW846 8260D	2000	11/16/2024 01:23	BST	A
Freon 113	ND	ND	ug/kg	3840	997	SW846 8260D	2000	11/16/2024 01:23	BST	A
Isopropylbenzene	ND	ND	ug/kg	3840	844	SW846 8260D	2000	11/16/2024 01:23	BST	A
Methyl acetate	ND	ND	ug/kg	7670	1230	SW846 8260D	2000	11/16/2024 01:23	BST	A
Methyl cyclohexane	ND	ND	ug/kg	3840	1150	SW846 8260D	2000	11/16/2024 01:23	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	3840	1270	SW846 8260D	2000	11/16/2024 01:23	BST	A
Methylene Chloride	ND	ND	ug/kg	3840	1730	SW846 8260D	2000	11/16/2024 01:23	BST	A
mp-Xylene	ND	ND	ug/kg	7670	1990	SW846 8260D	2000	11/16/2024 01:23	BST	A
o-Xylene	ND	ND	ug/kg	3840	1270	SW846 8260D	2000	11/16/2024 01:23	BST	A
Styrene	ND	ND	ug/kg	3840	920	SW846 8260D	2000	11/16/2024 01:23	BST	A
Tetrachloroethene	ND	ND	ug/kg	3840	1340	SW846 8260D	2000	11/16/2024 01:23	BST	A
Toluene	ND	ND	ug/kg	3840	882	SW846 8260D	2000	11/16/2024 01:23	BST	A
Total Xylenes	ND	ND	ug/kg	11500	2530	SW846 8260D	2000	11/16/2024 01:23	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	3840	997	SW846 8260D	2000	11/16/2024 01:23	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	3840	1110	SW846 8260D	2000	11/16/2024 01:23	BST	A
Trichloroethene	ND	ND	ug/kg	3840	1270	SW846 8260D	2000	11/16/2024 01:23	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	3840	920	SW846 8260D	2000	11/16/2024 01:23	BST	A
Vinyl Chloride	ND	ND	ug/kg	3840	1150	SW846 8260D	2000	11/16/2024 01:23	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	94.1%	71 – 146	11/16/2024 01:23	
4-Bromofluorobenzene	460-00-4	100%	46 – 138	11/16/2024 01:23	
Dibromofluoromethane	1868-53-7	92.5%	42 – 143	11/16/2024 01:23	
Toluene-d8	2037-26-5	98.9%	54 – 141	11/16/2024 01:23	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	33.8		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A
Total Solids	66.2		%	0.1	0.01	S2540G-15	1	11/14/2024 14:23	J1K	A

Results

Client Sample ID	TB-1	Collected	11/12/2024 13:45
Lab Sample ID	3387420009	Lab Receipt	11/13/2024 08:55

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/23/2024 11:27	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/23/2024 11:27	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	11/23/2024 11:27	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	11/23/2024 11:27	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	11/23/2024 11:27	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	11/23/2024 11:27	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/23/2024 11:27	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/23/2024 11:27	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/23/2024 11:27	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	11/23/2024 11:27	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	11/23/2024 11:27	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/23/2024 11:27	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/23/2024 11:27	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	11/23/2024 11:27	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/23/2024 11:27	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/23/2024 11:27	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	11/23/2024 11:27	TMP	A
Chloromethane	0.38J	J	ug/L	1.0	0.31	SW846 8260D	1	11/23/2024 11:27	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/23/2024 11:27	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/23/2024 11:27	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/23/2024 11:27	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/23/2024 11:27	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/23/2024 11:27	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/23/2024 11:27	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/23/2024 11:27	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	11/23/2024 11:27	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/23/2024 11:27	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/23/2024 11:27	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/23/2024 11:27	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	11/23/2024 11:27	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/23/2024 11:27	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/23/2024 11:27	TMP	A

Results

Client Sample ID	TB-1	Collected	11/12/2024 13:45
Lab Sample ID	3387420009	Lab Receipt	11/13/2024 08:55

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	11/23/2024 11:27	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/23/2024 11:27	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	11/23/2024 11:27	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/23/2024 11:27	TMP	A
trans-1,3-Dichloropropene	0.38J	J	ug/L	1.0	0.29	SW846 8260D	1	11/23/2024 11:27	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/23/2024 11:27	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/23/2024 11:27	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/23/2024 11:27	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	107%	62 – 133	11/23/2024 11:27	
4-Bromofluorobenzene	460-00-4	105%	79 – 114	11/23/2024 11:27	
Dibromofluoromethane	1868-53-7	99.7%	78 – 116	11/23/2024 11:27	
Toluene-d8	2037-26-5	108%	76 – 127	11/23/2024 11:27	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3387420001	SB-201-14	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387420002	SB-203-10	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387420003	SB-204-10	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387420004	SB-206-14	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387420005	SB-208-9.5	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387420006	SB-210-9	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387420007	SB-210-9D	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387420008	SB-206-12	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387420009	TB-1	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1332374	Prep Method	SW846 3051A
Date	11/15/2024 12:15	Analysis Method	SW846 6010C
Tech.	AXW		

Associated Samples

3387420003 3387420001 3387420004 3387420002

Method Blank 3905746 (MB) Created on 11/14/2024 17:54 For QC Batch 1332374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/kg	10.0	ND
Antimony, Total	7440-36-0	BLK	ND	mg/kg	2.0	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/kg	2.0	ND
Barium, Total	7440-39-3	BLK	ND	mg/kg	1.0	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/kg	1.0	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/kg	0.50	ND
Calcium, Total	7440-70-2	BLK	4.0J	mg/kg	10.0	J
Chromium, Total	7440-47-3	BLK	ND	mg/kg	1.0	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/kg	1.0	ND
Copper, Total	7440-50-8	BLK	ND	mg/kg	2.0	ND
Iron, Total	7439-89-6	BLK	ND	mg/kg	10.0	ND
Lead, Total	7439-92-1	BLK	ND	mg/kg	2.0	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/kg	10.0	ND
Manganese, Total	7439-96-5	BLK	ND	mg/kg	1.0	ND
Nickel, Total	7440-02-0	BLK	ND	mg/kg	2.0	ND
Potassium, Total	7440-09-7	BLK	ND	mg/kg	50.0	ND
Selenium, Total	7782-49-2	BLK	ND	mg/kg	5.0	ND
Silver, Total	7440-22-4	BLK	ND	mg/kg	0.50	ND
Sodium, Total	7440-23-5	BLK	ND	mg/kg	50.0	ND
Thallium, Total	7440-28-0	BLK	ND	mg/kg	3.0	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/kg	1.0	ND
Zinc, Total	7440-66-6	BLK	ND	mg/kg	2.0	ND

Lab Control Standard 3905747 (LCS1) Created on 11/14/2024 17:54 For QC Batch 1332374

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	105		100	105	80 - 120		
Antimony, Total	7440-36-0	LCS	42.5		40	106	80 - 120		
Arsenic, Total	7440-38-2	LCS	42.2		40	105	80 - 120		
Barium, Total	7440-39-3	LCS	109		100	109	80 - 120		
Beryllium, Total	7440-41-7	LCS	42.4		40	106	80 - 120		
Cadmium, Total	7440-43-9	LCS	21.6		20	108	80 - 120		
Calcium, Total	7440-70-2	LCS	547		500	109	80 - 120		
Chromium, Total	7440-47-3	LCS	21.9		20	110	80 - 120		
Cobalt, Total	7440-48-4	LCS	109		100	109	80 - 120		
Copper, Total	7440-50-8	LCS	105		100	105	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Iron, Total	7439-89-6	LCS	1070		1000	107	80 - 120		
Lead, Total	7439-92-1	LCS	109		100	109	80 - 120		
Magnesium, Total	7439-95-4	LCS	552		500	110	80 - 120		
Manganese, Total	7439-96-5	LCS	20		20	99.9	80 - 120		
Nickel, Total	7440-02-0	LCS	108		100	108	80 - 120		
Potassium, Total	7440-09-7	LCS	559		500	112	80 - 120		
Selenium, Total	7782-49-2	LCS	108		100	108	80 - 120		
Silver, Total	7440-22-4	LCS	21.3		20	106	80 - 120		
Sodium, Total	7440-23-5	LCS	555		500	111	80 - 120		
Thallium, Total	7440-28-0	LCS	107		100	107	80 - 120		
Vanadium, Total	7440-62-2	LCS	21.8		20	109	80 - 120		
Zinc, Total	7440-66-6	LCS	107		100	107	80 - 120		

Matrix Spike 3905748 (MS1) 3387420003 For QC Batch 1332374

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3905749 (MSD1) 3387420003 For QC Batch 1332374

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	MS	6830	4280	96.20	NC	75 - 125		
Aluminum, Total	7429-90-5	MSD	12100	4280	92.80	NC	75 - 125	RPD 56* (Max-20)	
Antimony, Total	7440-36-0	MS	34.6	0	38.50	90.1	75 - 125		
Antimony, Total	7440-36-0	MSD	37	0	37.10	99.8	75 - 125	RPD 6.64 (Max-20)	
Arsenic, Total	7440-38-2	MS	45.1	18.30	38.50	69.6*	75 - 125		
Arsenic, Total	7440-38-2	MSD	46.3	18.30	37.10	75.5	75 - 125	RPD 2.69 (Max-20)	
Barium, Total	7440-39-3	MS	188	72.50	96.20	120	75 - 125		
Barium, Total	7440-39-3	MSD	239	72.50	92.80	180*	75 - 125	RPD 24* (Max-20)	
Beryllium, Total	7440-41-7	MS	36.8	1.10	38.50	92.8	75 - 125		
Beryllium, Total	7440-41-7	MSD	39.9	1.10	37.10	105	75 - 125	RPD 8.23 (Max-20)	
Cadmium, Total	7440-43-9	MS	19.1	2	19.20	88.9	75 - 125		
Cadmium, Total	7440-43-9	MSD	19.8	2	18.60	96.2	75 - 125	RPD 3.89 (Max-20)	
Calcium, Total	7440-70-2	MS	23300	19800	481	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	47300	19800	464	NC	75 - 125	RPD 68.10* (Max-20)	
Chromium, Total	7440-47-3	MS	42.2	29.80	19.20	64.4*	75 - 125		
Chromium, Total	7440-47-3	MSD	41.5	29.80	18.60	62.9*	75 - 125	RPD 1.69 (Max-20)	
Cobalt, Total	7440-48-4	MS	108	30.50	96.20	80.9	75 - 125		
Cobalt, Total	7440-48-4	MSD	108	30.50	92.80	83.6	75 - 125	RPD 0.27 (Max-20)	
Copper, Total	7440-50-8	MS	136	49	96.20	90.1	75 - 125		
Copper, Total	7440-50-8	MSD	138	49	92.80	95.5	75 - 125	RPD 1.43 (Max-20)	
Iron, Total	7439-89-6	MS	37300	60600	962	NC	75 - 125		
Iron, Total	7439-89-6	MSD	36200	60600	928	NC	75 - 125	RPD 2.81 (Max-20)	
Lead, Total	7439-92-1	MS	193	143	96.20	51.9*	75 - 125		
Lead, Total	7439-92-1	MSD	177	143	92.80	37.2*	75 - 125	RPD 8.33 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Magnesium, Total	7439-95-4	MS	8280	6800	481	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	12300	6800	464	NC	75 - 125	RPD 39.20* (Max-20)	
Manganese, Total	7439-96-5	MS	1890	2430	19.20	NC	75 - 125		
Manganese, Total	7439-96-5	MSD	2620	2430	18.60	NC	75 - 125	RPD 32.60* (Max-20)	
Nickel, Total	7440-02-0	MS	105	16.60	96.20	92	75 - 125		
Nickel, Total	7440-02-0	MSD	102	16.60	92.80	92.2	75 - 125	RPD 2.82 (Max-20)	
Potassium, Total	7440-09-7	MS	1160	495	481	139*	75 - 125		
Potassium, Total	7440-09-7	MSD	1650	495	464	249*	75 - 125	RPD 34.30* (Max-20)	
Selenium, Total	7782-49-2	MS	102	4.70	96.20	101	75 - 125		
Selenium, Total	7782-49-2	MSD	104	4.70	92.80	107	75 - 125	RPD 2.45 (Max-20)	
Silver, Total	7440-22-4	MS	18.6	0.27	19.20	95.3	75 - 125		
Silver, Total	7440-22-4	MSD	19.5	0.27	18.60	104	75 - 125	RPD 4.84 (Max-20)	
Sodium, Total	7440-23-5	MS	673	197	481	99.1	75 - 125		
Sodium, Total	7440-23-5	MSD	866	197	464	144*	75 - 125	RPD 25* (Max-20)	
Thallium, Total	7440-28-0	MS	78.7	5.50	96.20	76	75 - 125		
Thallium, Total	7440-28-0	MSD	83.6	5.50	92.80	84.2	75 - 125	RPD 6.14 (Max-20)	
Vanadium, Total	7440-62-2	MS	42	39	19.20	15.7*	75 - 125		
Vanadium, Total	7440-62-2	MSD	44.1	39	18.60	27.5*	75 - 125	RPD 4.84 (Max-20)	
Zinc, Total	7440-66-6	MS	264	202	96.20	65.3*	75 - 125		
Zinc, Total	7440-66-6	MSD	246	202	92.80	48.3*	75 - 125	RPD 7.03 (Max-20)	

QC Batch

QC Batch	1332375	Prep Method	SW846 3051A
Date	11/18/2024 11:05	Analysis Method	SW846 6010C
Tech.	AXW		

Associated Samples

3387420006 3387420007 3387420005 3387420008

Matrix Spike 3905755 (MS1) 3387361001 (non-Project Sample) For QC Batch 1332375

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3905756 (MSD1) 3387361001 (non-Project Sample) For QC Batch 1332375

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Arsenic, Total	7440-38-2	MS	37.4	1.40	37.90	95.1	75 - 125		
Arsenic, Total	7440-38-2	MSD	40.3	1.40	37.80	103	75 - 125	RPD 7.55 (Max-20)	
Beryllium, Total	7440-41-7	MS	38.9	1.90	37.90	97.6	75 - 125		
Beryllium, Total	7440-41-7	MSD	41.9	1.90	37.80	106	75 - 125	RPD 7.31 (Max-20)	
Cadmium, Total	7440-43-9	MS	19.1	0.38	18.90	99.1	75 - 125		
Cadmium, Total	7440-43-9	MSD	20.5	0.38	18.90	107	75 - 125	RPD 7.01 (Max-20)	
Calcium, Total	7440-70-2	MS	3190	2610	473	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	3280	2610	473	NC	75 - 125	RPD 2.60 (Max-20)	
Chromium, Total	7440-47-3	MS	24	4.80	18.90	102	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chromium, Total	7440-47-3	MSD	25.7	4.80	18.90	111	75 - 125	RPD 6.59 (Max-20)	
Copper, Total	7440-50-8	MS	179	74.30	94.70	110	75 - 125		
Copper, Total	7440-50-8	MSD	186	74.30	94.50	118	75 - 125	RPD 4.18 (Max-20)	
Lead, Total	7439-92-1	MS	120	31.30	94.70	94	75 - 125		
Lead, Total	7439-92-1	MSD	132	31.30	94.50	107	75 - 125	RPD 9.39 (Max-20)	
Nickel, Total	7440-02-0	MS	100	5.40	94.70	100	75 - 125		
Nickel, Total	7440-02-0	MSD	107	5.40	94.50	107	75 - 125	RPD 6.31 (Max-20)	
Potassium, Total	7440-09-7	MS	809	309	473	106	75 - 125		
Potassium, Total	7440-09-7	MSD	856	309	473	116	75 - 125	RPD 5.59 (Max-20)	
Selenium, Total	7782-49-2	MS	102	7.10	94.70	101	75 - 125		
Selenium, Total	7782-49-2	MSD	111	7.10	94.50	110	75 - 125	RPD 7.83 (Max-20)	
Zinc, Total	7440-66-6	MS	380	262	94.70	124	75 - 125		
Zinc, Total	7440-66-6	MSD	400	262	94.50	146*	75 - 125	RPD 5.26 (Max-20)	

Method Blank 3905750 (MB) Created on 11/14/2024 17:57 For QC Batch 1332375

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/kg	10.0	ND
Antimony, Total	7440-36-0	BLK	ND	mg/kg	2.0	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/kg	2.0	ND
Barium, Total	7440-39-3	BLK	ND	mg/kg	1.0	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/kg	1.0	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/kg	0.50	ND
Calcium, Total	7440-70-2	BLK	ND	mg/kg	10.0	ND
Chromium, Total	7440-47-3	BLK	ND	mg/kg	1.0	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/kg	1.0	ND
Copper, Total	7440-50-8	BLK	ND	mg/kg	2.0	ND
Iron, Total	7439-89-6	BLK	3.7J	mg/kg	10.0	J
Lead, Total	7439-92-1	BLK	ND	mg/kg	2.0	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/kg	10.0	ND
Manganese, Total	7439-96-5	BLK	ND	mg/kg	1.0	ND
Nickel, Total	7440-02-0	BLK	ND	mg/kg	2.0	ND
Potassium, Total	7440-09-7	BLK	ND	mg/kg	50.0	ND
Selenium, Total	7782-49-2	BLK	ND	mg/kg	5.0	ND
Silver, Total	7440-22-4	BLK	ND	mg/kg	0.50	ND
Sodium, Total	7440-23-5	BLK	ND	mg/kg	50.0	ND
Thallium, Total	7440-28-0	BLK	ND	mg/kg	3.0	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/kg	1.0	ND
Zinc, Total	7440-66-6	BLK	ND	mg/kg	2.0	ND

Lab Control Standard 3905751 (LCS1) Created on 11/14/2024 17:57 For QC Batch 1332375

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	107		100	107	80 - 120		
Antimony, Total	7440-36-0	LCS	41.3		40	103	80 - 120		
Arsenic, Total	7440-38-2	LCS	43.5		40	109	80 - 120		
Barium, Total	7440-39-3	LCS	111		100	111	80 - 120		
Beryllium, Total	7440-41-7	LCS	43.2		40	108	80 - 120		
Cadmium, Total	7440-43-9	LCS	22		20	110	80 - 120		
Calcium, Total	7440-70-2	LCS	557		500	111	80 - 120		
Chromium, Total	7440-47-3	LCS	22.2		20	111	80 - 120		
Cobalt, Total	7440-48-4	LCS	111		100	111	80 - 120		
Copper, Total	7440-50-8	LCS	107		100	107	80 - 120		
Iron, Total	7439-89-6	LCS	1090		1000	109	80 - 120		
Lead, Total	7439-92-1	LCS	110		100	110	80 - 120		
Magnesium, Total	7439-95-4	LCS	555		500	111	80 - 120		
Manganese, Total	7439-96-5	LCS	20.2		20	101	80 - 120		
Nickel, Total	7440-02-0	LCS	110		100	110	80 - 120		
Potassium, Total	7440-09-7	LCS	567		500	113	80 - 120		
Selenium, Total	7782-49-2	LCS	110		100	110	80 - 120		
Silver, Total	7440-22-4	LCS	21.4		20	107	80 - 120		
Sodium, Total	7440-23-5	LCS	560		500	112	80 - 120		
Thallium, Total	7440-28-0	LCS	108		100	108	80 - 120		
Vanadium, Total	7440-62-2	LCS	22.2		20	111	80 - 120		
Zinc, Total	7440-66-6	LCS	108		100	108	80 - 120		

QC Batch

QC Batch	1338691	Prep Method	SW846 7471B
Date	11/25/2024 16:43	Analysis Method	SW846 7471B
Tech.	JMS		

Associated Samples

3387420003	3387420006	3387420004	3387420007
3387420001	3387420005	3387420008	3387420002

Matrix Spike 3909561 (MS) 3387696001 (non-Project Sample) For QC Batch 1338691

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909562 (MSD) 3387696001 (non-Project Sample) For QC Batch 1338691

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	1.1	0.0750	0.95	106	80 - 120		
Mercury, Total	7439-97-6	MSD	0.95	0.0750	0.87	101	80 - 120	RPD 13.50 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3909563 (MS) 3387696004 (non-Project Sample) For QC Batch 1338691

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909564 (MSD) 3387696004 (non-Project Sample) For QC Batch 1338691

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.99	0.0630	0.95	97.7	80 - 120		
Mercury, Total	7439-97-6	MSD	0.85	0.0630	0.84	93.6	80 - 120	RPD 16.10 (Max-20)	

Method Blank 3909559 (MB) Created on 11/24/2024 09:44 For QC Batch 1338691

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/kg	0.050	ND

Lab Control Standard 3909560 (LCS) Created on 11/24/2024 09:44 For QC Batch 1338691

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.42		0.40	104	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1333043	Prep Method	SW846 3546
Date	11/17/2024 14:10	Analysis Method	SW846 8270E
Tech.	BMP		

Associated Samples

3387420003	3387420006	3387420001	3387420004
3387420007	3387420008	3387420002	3387420005

Method Blank 3906150 (MB) Created on 11/15/2024 15:42 For QC Batch 1333043

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4330	5000	86.6	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	1840	2500	73.8	40 - 110	
2-Fluorophenol	367-12-4	BLK	3680	5000	73.7	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	1960	2500	78.5	38 - 112	
Phenol-d5	4165-62-2	BLK	3660	5000	73.3	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2410	2500	96.4	45 - 126	

Lab Control Standard 3906151 (LCS) Created on 11/15/2024 15:42 For QC Batch 1333043

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1920		2500	76.9	51 - 102		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS	1700		2500	68	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	4810		5000	96.2	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4880		5000	97.7	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4810		5000	96.2	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4650		5000	93.1	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	5300		5000	106	59 - 133		
2,4-Dinitrophenol	51-28-5	LCS	4100		5000	82.1	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2550		2500	102	62 - 115		
2,6-Dinitrotoluene	606-20-2	LCS	2410		2500	96.3	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	2040		2500	81.7	59 - 104		
2-Chlorophenol	95-57-8	LCS	4470		5000	89.4	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4980		5000	99.6	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	2030		2500	81.2	59 - 108		
2-Nitroaniline	88-74-4	LCS	2440		2500	97.6	60 - 115		
2-Nitrophenol	88-75-5	LCS	5140		5000	103	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3790		5000	75.8	25 - 104		
3-Nitroaniline	99-09-2	LCS	2480		2500	99.2	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	1940		2500	77.7	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	4690		5000	93.8	59 - 115		
4-Chloroaniline	106-47-8	LCS	1930		2500	77.2	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	2210		2500	88.4	59 - 107		
4-Nitroaniline	100-01-6	LCS	2460		2500	98.2	49 - 121		
4-Nitrophenol	100-02-7	LCS	5040		5000	101	53 - 124		
Acenaphthene	83-32-9	LCS	2090		2500	83.8	61 - 105		
Acenaphthylene	208-96-8	LCS	1790		2500	71.6	63 - 106		
Acetophenone	98-86-2	LCS	1880		2500	75.1	33 - 98		
Anthracene	120-12-7	LCS	2160		2500	86.4	60 - 107		
Atrazine	1912-24-9	LCS	2330		2500	93	62 - 116		
Benzaldehyde	100-52-7	LCS	2290		2500	91.6	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2180		2500	87.2	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2210		2500	88.3	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2170		2500	86.9	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	2430		2500	97.1	57 - 119		
Benzo(k)fluoranthene	207-08-9	LCS	2190		2500	87.6	63 - 116		
Biphenyl	92-52-4	LCS	1910		2500	76.5	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	2170		2500	86.6	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	1960		2500	78.2	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	1920		2500	77	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	2440		2500	97.7	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	2300		2500	91.8	58 - 125		
Caprolactam	105-60-2	LCS	2340		2500	93.7	51 - 119		
Carbazole	86-74-8	LCS	2160		2500	86.5	66 - 117		
Chrysene	218-01-9	LCS	2230		2500	89	65 - 113		
Dibenzo(a,h)anthracene	53-70-3	LCS	2390		2500	95.5	59 - 116		
Dibenzofuran	132-64-9	LCS	2040		2500	81.6	62 - 106		
Diethylphthalate	84-66-2	LCS	2280		2500	91.1	59 - 112		
Dimethylphthalate	131-11-3	LCS	2160		2500	86.5	60 - 111		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Di-n-Butylphthalate	84-74-2	LCS	2260		2500	90.4	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	2630		2500	105	47 - 134		
Fluoranthene	206-44-0	LCS	2210		2500	88.4	61 - 114		
Fluorene	86-73-7	LCS	2130		2500	85.4	62 - 107		
Hexachlorobenzene	118-74-1	LCS	2040		2500	81.5	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2220		2500	88.7	56 - 127		
Hexachlorocyclopentadiene	77-47-4	LCS	1520		2500	60.9	20 - 124		
Hexachloroethane	67-72-1	LCS	1900		2500	76.1	57 - 101		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	2260		2500	90.4	53 - 118		
Isophorone	78-59-1	LCS	2000		2500	79.9	41 - 101		
mp-Cresol	108394/106445	LCS	4690		5000	93.9	60 - 109		
Naphthalene	91-20-3	LCS	1990		2500	79.4	60 - 102		
Nitrobenzene	98-95-3	LCS	2110		2500	84.5	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	2020		2500	80.6	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2420		2500	96.8	73 - 129		
o-Cresol	95-48-7	LCS	4440		5000	88.7	61 - 108		
Pentachlorophenol	87-86-5	LCS	4230		5000	84.6	46 - 138		
Phenanthrene	85-01-8	LCS	2070		2500	82.8	61 - 106		
Phenol	108-95-2	LCS	4520		5000	90.4	57 - 110		
Pyrene	129-00-0	LCS	2050		2500	82.1	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	5020	5000	100	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	2190	2500	87.6	40 - 110	
2-Fluorophenol	367-12-4	LCS	4400	5000	88.1	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2380	2500	95.1	38 - 112	
Phenol-d5	4165-62-2	LCS	4390	5000	87.9	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2560	2500	102	45 - 126	

Matrix Spike 3906152 (MS) 3387420001 For QC Batch 1333043

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3906153 (MSD) 3387420001 For QC Batch 1333043

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	MS	1700	0	2400	70.9	51 - 102		
1,2,4,5-Tetrachlorobenzene	95-94-3	MSD	1810	0	2450	73.7	51 - 102	RPD 5.76 (Max-19)	
1,4-Dioxane	123-91-1	MS	1130	0	2400	47.1	24 - 104		
1,4-Dioxane	123-91-1	MSD	1360	0	2450	55.5	24 - 104	RPD 18.40 (Max-30)	
2,3,4,6-Tetrachlorophenol	58-90-2	MS	4190	0	4810	87.1	55 - 111		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2,3,4,6-Tetrachlorophenol	58-90-2	MSD	4450	0	4900	90.8	55 - 111	RPD 6.11 (Max-20)	
2,4,5-Trichlorophenol	95-95-4	MS	4400	0	4810	91.5	60 - 108		
2,4,5-Trichlorophenol	95-95-4	MSD	4550	0	4900	92.7	60 - 108	RPD 3.25 (Max-22)	
2,4,6-Trichlorophenol	88-06-2	MS	4340	0	4810	90.3	59 - 111		
2,4,6-Trichlorophenol	88-06-2	MSD	4480	0	4900	91.5	59 - 111	RPD 3.19 (Max-20)	
2,4-Dichlorophenol	120-83-2	MS	4080	0	4810	84.8	61 - 109		
2,4-Dichlorophenol	120-83-2	MSD	4340	0	4900	88.5	61 - 109	RPD 6.24 (Max-20)	
2,4-Dimethylphenol	105-67-9	MS	4650	38.40	4810	96	59 - 133		
2,4-Dimethylphenol	105-67-9	MSD	5040	38.40	4900	102	59 - 133	RPD 8.04 (Max-23)	
2,4-Dinitrophenol	51-28-5	MS	1010	0	4810	21*	28 - 135		
2,4-Dinitrophenol	51-28-5	MSD	807	0	4900	16.5*	28 - 135	RPD 22.40 (Max-30)	
2,4-Dinitrotoluene	121-14-2	MS	2250	0	2400	93.7	62 - 115		
2,4-Dinitrotoluene	121-14-2	MSD	2340	0	2450	95.4	62 - 115	RPD 3.67 (Max-21)	
2,6-Dinitrotoluene	606-20-2	MS	2150	0	2400	89.6	61 - 114		
2,6-Dinitrotoluene	606-20-2	MSD	2210	0	2450	90.2	61 - 114	RPD 2.64 (Max-20)	
2-Chloronaphthalene	91-58-7	MS	1810	0	2400	75.4	59 - 104		
2-Chloronaphthalene	91-58-7	MSD	1920	0	2450	78.3	59 - 104	RPD 5.75 (Max-19)	
2-Chlorophenol	95-57-8	MS	3610	0	4810	75	61 - 106		
2-Chlorophenol	95-57-8	MSD	4150	0	4900	84.7	61 - 106	RPD 14 (Max-22)	
2-Methyl-4,6-dinitrophenol	534-52-1	MS	1870	0	4810	38.9*	39 - 113		
2-Methyl-4,6-dinitrophenol	534-52-1	MSD	1420	0	4900	29*	39 - 113	RPD 27.20 (Max-30)	
2-Methylnaphthalene	91-57-6	MS	2030	407	2400	67.4	59 - 108		
2-Methylnaphthalene	91-57-6	MSD	2100	407	2450	69.1	59 - 108	RPD 3.55 (Max-21)	
2-Nitroaniline	88-74-4	MS	2300	0	2400	95.7	60 - 115		
2-Nitroaniline	88-74-4	MSD	2430	0	2450	99.1	60 - 115	RPD 5.37 (Max-19)	
2-Nitrophenol	88-75-5	MS	4220	0	4810	87.8	60 - 114		
2-Nitrophenol	88-75-5	MSD	4790	0	4900	97.8	60 - 114	RPD 12.70 (Max-23)	
3,3-Dichlorobenzidine	91-94-1	MS	2850	0	4810	59.3	25 - 104		
3,3-Dichlorobenzidine	91-94-1	MSD	3150	0	4900	64.3	25 - 104	RPD 10.10 (Max-26)	
3-Nitroaniline	99-09-2	MS	2270	0	2400	94.4	52 - 119		
3-Nitroaniline	99-09-2	MSD	2440	0	2450	99.4	52 - 119	RPD 7.03 (Max-22)	
4-Bromophenyl-phenylether	101-55-3	MS	1880	0	2400	78.1	60 - 110		
4-Bromophenyl-phenylether	101-55-3	MSD	1880	0	2450	76.6	60 - 110	RPD 0.07 (Max-21)	
4-Chloro-3-methylphenol	59-50-7	MS	4220	0	4810	87.9	59 - 115		
4-Chloro-3-methylphenol	59-50-7	MSD	4430	0	4900	90.3	59 - 115	RPD 4.72 (Max-20)	
4-Chloroaniline	106-47-8	MS	1600	0	2400	66.4	42 - 111		
4-Chloroaniline	106-47-8	MSD	1720	0	2450	70	42 - 111	RPD 7.30 (Max-22)	
4-Chlorophenyl-phenylether	7005-72-3	MS	2010	0	2400	83.7	59 - 107		
4-Chlorophenyl-phenylether	7005-72-3	MSD	2070	0	2450	84.5	59 - 107	RPD 2.88 (Max-18)	
4-Nitroaniline	100-01-6	MS	2380	0	2400	99.2	49 - 121		
4-Nitroaniline	100-01-6	MSD	2540	0	2450	104	49 - 121	RPD 6.45 (Max-19)	
4-Nitrophenol	100-02-7	MS	4470	0	4810	92.9	53 - 124		
4-Nitrophenol	100-02-7	MSD	4600	0	4900	93.9	53 - 124	RPD 2.94 (Max-21)	
Acenaphthene	83-32-9	MS	3020	1390	2400	67.6	61 - 105		
Acenaphthene	83-32-9	MSD	2760	1390	2450	55.9*	61 - 105	RPD 8.86 (Max-17)	
Acenaphthylene	208-96-8	MS	2770	1550	2400	50.5*	63 - 106		
Acenaphthylene	208-96-8	MSD	2640	1550	2450	44.4*	63 - 106	RPD 4.67 (Max-17)	
Acetophenone	98-86-2	MS	1630	93.60	2400	64	33 - 98		
Acetophenone	98-86-2	MSD	1850	93.60	2450	71.6	33 - 98	RPD 12.50 (Max-21)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Anthracene	120-12-7	MS	5270	4180	2400	45.1*	60 - 107		
Anthracene	120-12-7	MSD	4380	4180	2450	8.26*	60 - 107	RPD 18.30 (Max-20)	
Atrazine	1912-24-9	MS	1850	0	2400	76.8	62 - 116		
Atrazine	1912-24-9	MSD	1960	0	2450	80	62 - 116	RPD 5.98 (Max-22)	
Benzaldehyde	100-52-7	MS	1710	0	2400	71.3	46 - 115		
Benzaldehyde	100-52-7	MSD	2050	0	2450	83.6	46 - 115	RPD 17.80 (Max-30)	
Benzo(a)anthracene	56-55-3	MS	10300	12300	2400	NC	61 - 113		
Benzo(a)anthracene	56-55-3	MSD	8150	12300	2450	NC	61 - 113	RPD 22.90* (Max-22)	
Benzo(a)pyrene	50-32-8	MS	10800	13000	2400	NC	68 - 121		
Benzo(a)pyrene	50-32-8	MSD	8800	13000	2450	NC	68 - 121	RPD 20.50 (Max-24)	
Benzo(b)fluoranthene	205-99-2	MS	11800	13200	2400	NC	64 - 115		
Benzo(b)fluoranthene	205-99-2	MSD	8610	13200	2450	NC	64 - 115	RPD 31.30* (Max-28)	
Benzo(g,h,i)perylene	191-24-2	MS	7220	7530	2400	-13*	57 - 119		
Benzo(g,h,i)perylene	191-24-2	MSD	5860	7530	2450	-68.3*	57 - 119	RPD 20.80 (Max-30)	
Benzo(k)fluoranthene	207-08-9	MS	7690	7020	2400	27.8*	63 - 116		
Benzo(k)fluoranthene	207-08-9	MSD	7210	7020	2450	7.92*	63 - 116	RPD 6.36 (Max-22)	
Biphenyl	92-52-4	MS	1810	148	2400	68.9	56 - 100		
Biphenyl	92-52-4	MSD	1860	148	2450	69.8	56 - 100	RPD 2.90 (Max-14)	
bis(2-Chloroethoxy)methane	111-91-1	MS	1790	0	2400	74.4	56 - 112		
bis(2-Chloroethoxy)methane	111-91-1	MSD	2050	0	2450	83.6	56 - 112	RPD 13.50 (Max-18)	
bis(2-Chloroethyl)ether	111-44-4	MS	1570	0	2400	65.2	51 - 109		
bis(2-Chloroethyl)ether	111-44-4	MSD	1880	0	2450	76.9	51 - 109	RPD 18.30 (Max-24)	
bis(2-Chloroisopropyl)ether	108-60-1	MS	1550	0	2400	64.5	38 - 120		
bis(2-Chloroisopropyl)ether	108-60-1	MSD	1850	0	2450	75.4	38 - 120	RPD 17.40 (Max-22)	
bis(2-Ethylhexyl)phthalate	117-81-7	MS	2450	0	2400	102	51 - 130		
bis(2-Ethylhexyl)phthalate	117-81-7	MSD	2570	0	2450	105	51 - 130	RPD 4.59 (Max-21)	
Butylbenzylphthalate	85-68-7	MS	2240	0	2400	93.3	58 - 125		
Butylbenzylphthalate	85-68-7	MSD	2330	0	2450	95	58 - 125	RPD 3.78 (Max-18)	
Caprolactam	105-60-2	MS	2130	78.40	2400	85.2	51 - 119		
Caprolactam	105-60-2	MSD	2290	78.40	2450	90.1	51 - 119	RPD 7.23 (Max-23)	
Carbazole	86-74-8	MS	3560	1930	2400	68	66 - 117		
Carbazole	86-74-8	MSD	3260	1930	2450	54.6*	66 - 117	RPD 8.71 (Max-20)	
Chrysene	218-01-9	MS	10400	12100	2400	NC	65 - 113		
Chrysene	218-01-9	MSD	8240	12100	2450	NC	65 - 113	RPD 23* (Max-20)	
Dibenzo(a,h)anthracene	53-70-3	MS	3800	2520	2400	53.2*	59 - 116		
Dibenzo(a,h)anthracene	53-70-3	MSD	3170	2520	2450	26.8*	59 - 116	RPD 17.90 (Max-28)	
Dibenzofuran	132-64-9	MS	2700	1070	2400	67.9	62 - 106		
Dibenzofuran	132-64-9	MSD	2500	1070	2450	58.3*	62 - 106	RPD 7.90 (Max-18)	
Diethylphthalate	84-66-2	MS	2110	0	2400	87.8	59 - 112		
Diethylphthalate	84-66-2	MSD	2170	0	2450	88.5	59 - 112	RPD 2.75 (Max-18)	
Dimethylphthalate	131-11-3	MS	1940	0	2400	80.8	60 - 111		
Dimethylphthalate	131-11-3	MSD	1990	0	2450	81.1	60 - 111	RPD 2.34 (Max-18)	
Di-n-Butylphthalate	84-74-2	MS	2180	0	2400	90.5	62 - 125		
Di-n-Butylphthalate	84-74-2	MSD	2250	0	2450	91.8	62 - 125	RPD 3.30 (Max-20)	
Di-n-Octylphthalate	117-84-0	MS	2630	0	2400	109	47 - 134		
Di-n-Octylphthalate	117-84-0	MSD	2750	0	2450	112	47 - 134	RPD 4.36 (Max-20)	
Fluoranthene	206-44-0	MS	18400	27200	2400	NC	61 - 114		
Fluoranthene	206-44-0	MSD	16100	27200	2450	NC	61 - 114	RPD 13.80 (Max-21)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Fluorene	86-73-7	MS	3870	2490	2400	57*	62 - 107		
Fluorene	86-73-7	MSD	3440	2490	2450	38.6*	62 - 107	RPD 11.60 (Max-16)	
Hexachlorobenzene	118-74-1	MS	1890	0	2400	78.5	56 - 111		
Hexachlorobenzene	118-74-1	MSD	1990	0	2450	81	56 - 111	RPD 5.16 (Max-21)	
Hexachlorobutadiene	87-68-3	MS	1920	33.60	2400	78.6	56 - 127		
Hexachlorobutadiene	87-68-3	MSD	2200	33.60	2450	88.4	56 - 127	RPD 13.50 (Max-22)	
Hexachlorocyclopentadiene	77-47-4	MS	179	0	2400	7.43*	20 - 124		J
Hexachlorocyclopentadiene	77-47-4	MSD	189	0	2450	7.7*	20 - 124	RPD 5.41 (Max-29)	J
Hexachloroethane	67-72-1	MS	1320	0	2400	54.9*	57 - 101		
Hexachloroethane	67-72-1	MSD	1510	0	2450	61.5	57 - 101	RPD 13.40 (Max-28)	
Indeno(1,2,3-cd)pyrene	193-39-5	MS	7480	7180	2400	12.3*	53 - 118		
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	6090	7180	2450	-44.4*	53 - 118	RPD 20.40 (Max-30)	
Isophorone	78-59-1	MS	1730	0	2400	72	41 - 101		
Isophorone	78-59-1	MSD	1930	0	2450	78.7	41 - 101	RPD 10.90 (Max-19)	
mp-Cresol	108394/106445	MS	4080	71.80	4810	83.3	60 - 109		
mp-Cresol	108394/106445	MSD	4460	71.80	4900	89.6	60 - 109	RPD 9.04 (Max-20)	
Naphthalene	91-20-3	MS	2650	1540	2400	45.9*	60 - 102		
Naphthalene	91-20-3	MSD	2790	1540	2450	50.8*	60 - 102	RPD 5.20 (Max-21)	
Nitrobenzene	98-95-3	MS	1720	0	2400	71.4	52 - 113		
Nitrobenzene	98-95-3	MSD	2010	0	2450	81.9	52 - 113	RPD 15.60 (Max-20)	
N-Nitroso-di-n-propylamine	621-64-7	MS	1740	0	2400	72.3	50 - 121		
N-Nitroso-di-n-propylamine	621-64-7	MSD	1960	0	2450	79.9	50 - 121	RPD 11.80 (Max-20)	
N-Nitrosodiphenylamine	86-30-6	MS	2240	0	2400	93.2	73 - 129		
N-Nitrosodiphenylamine	86-30-6	MSD	2330	0	2450	94.9	73 - 129	RPD 3.70 (Max-21)	
o-Cresol	95-48-7	MS	3760	0	4810	78.3	61 - 108		
o-Cresol	95-48-7	MSD	4150	0	4900	84.7	61 - 108	RPD 9.85 (Max-21)	
Pentachlorophenol	87-86-5	MS	3360	0	4810	69.9	46 - 138		
Pentachlorophenol	87-86-5	MSD	3780	0	4900	77.1	46 - 138	RPD 11.80 (Max-25)	
Phenanthrene	85-01-8	MS	10200	10600	2400	NC	61 - 106		
Phenanthrene	85-01-8	MSD	7480	10600	2450	NC	61 - 106	RPD 30.60* (Max-20)	
Phenol	108-95-2	MS	3730	0	4810	77.6	57 - 110		
Phenol	108-95-2	MSD	4240	0	4900	86.4	57 - 110	RPD 12.70 (Max-23)	
Pyrene	129-00-0	MS	15800	21600	2400	NC	62 - 117		
Pyrene	129-00-0	MSD	12400	21600	2450	NC	62 - 117	RPD 23.90* (Max-20)	

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	4610	4810	96	19 - 132	
2,4,6-Tribromophenol	118-79-6	MSD	4760	4900	97.1	19 - 132	
2-Fluorobiphenyl	321-60-8	MS	1900	2400	79.1	40 - 110	
2-Fluorobiphenyl	321-60-8	MSD	2050	2450	83.5	40 - 110	
2-Fluorophenol	367-12-4	MS	3370	4810	70	26 - 116	
2-Fluorophenol	367-12-4	MSD	4040	4900	82.5	26 - 116	
Nitrobenzene-d5	4165-60-0	MS	1880	2400	78.2	38 - 112	
Nitrobenzene-d5	4165-60-0	MSD	2220	2450	90.6	38 - 112	
Phenol-d5	4165-62-2	MS	3600	4810	74.8	35 - 111	
Phenol-d5	4165-62-2	MSD	4110	4900	83.8	35 - 111	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
Terphenyl-d14	98904-43-9	MS	2370	2400	98.5	45 - 126	
Terphenyl-d14	98904-43-9	MSD	2490	2450	102	45 - 126	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1333060	Prep Method	SW846 5035A
Date	11/13/2024 10:45	Analysis Method	SW846 8260D
Tech.	BST		

Associated Samples

3387420004	3387420001	3387420002	3387420005
3387420008	3387420003		

Matrix Spike 3906191 (MS) 3387655001 (non-Project Sample) For QC Batch 1333060

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3906192 (MSD) 3387655001 (non-Project Sample) For QC Batch 1333060

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	1240	0	1030	120	69 - 136		
1,1,1-Trichloroethane	71-55-6	MSD	1270	0	1030	123	69 - 136	RPD 2.54 (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	1070	0	1030	104	69 - 125		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	1080	0	1030	105	69 - 125	RPD 0.97 (Max-40)	
1,1,2-Trichloroethane	79-00-5	MS	1170	0	1030	114	70 - 128		
1,1,2-Trichloroethane	79-00-5	MSD	1220	0	1030	118	70 - 128	RPD 3.62 (Max-40)	
1,1-Dichloroethane	75-34-3	MS	1150	0	1030	112	68 - 137		
1,1-Dichloroethane	75-34-3	MSD	1190	0	1030	115	68 - 137	RPD 3.10 (Max-40)	
1,1-Dichloroethene	75-35-4	MS	1200	0	1030	116	62 - 135		
1,1-Dichloroethene	75-35-4	MSD	1220	0	1030	118	62 - 135	RPD 1.80 (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	MS	1060	31.30	1030	100	41 - 143		
1,2,3-Trichlorobenzene	87-61-6	MSD	1120	31.30	1030	105	41 - 143	RPD 4.92 (Max-40)	
1,2,3-Trichloropropane	96-18-4	MS	1060	0	1030	103	63 - 133		
1,2,3-Trichloropropane	96-18-4	MSD	1070	0	1030	104	63 - 133	RPD 1.20 (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	MS	1210	0	1030	118	61 - 134		
1,2,4-Trichlorobenzene	120-82-1	MSD	1270	0	1030	123	61 - 134	RPD 4.64 (Max-40)	
1,2,4-Trimethylbenzene	95-63-6	MS	1160	0	1030	112	75 - 134		
1,2,4-Trimethylbenzene	95-63-6	MSD	1200	0	1030	116	75 - 134	RPD 3.48 (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	836	0	1030	81.1	37 - 131		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	848	0	1030	82.2	37 - 131	RPD 1.43 (Max-40)	
1,2-Dibromoethane	106-93-4	MS	1160	0	1030	112	69 - 130		
1,2-Dibromoethane	106-93-4	MSD	1190	0	1030	115	69 - 130	RPD 2.65 (Max-40)	
1,2-Dichlorobenzene	95-50-1	MS	1120	0	1030	109	73 - 127		
1,2-Dichlorobenzene	95-50-1	MSD	1170	0	1030	113	73 - 127	RPD 3.61 (Max-40)	
1,2-Dichloroethane	107-06-2	MS	1090	0	1030	106	62 - 139		
1,2-Dichloroethane	107-06-2	MSD	1130	0	1030	109	62 - 139	RPD 3.49 (Max-40)	
1,2-Dichloroethene, Total	540-59-0	MS	2360	0	2060	114	68 - 137		
1,2-Dichloroethene, Total	540-59-0	MSD	2410	0	2060	117	68 - 137	RPD 2.50 (Max-)	
1,2-Dichloropropane	78-87-5	MS	1170	0	1030	113	77 - 133		
1,2-Dichloropropane	78-87-5	MSD	1180	0	1030	115	77 - 133	RPD 1.33 (Max-40)	
1,3,5-Trimethylbenzene	108-67-8	MS	1210	11.60	1030	116	74 - 137		
1,3,5-Trimethylbenzene	108-67-8	MSD	1240	11.60	1030	120	74 - 137	RPD 2.69 (Max-40)	
1,3-Dichlorobenzene	541-73-1	MS	1150	0	1030	111	73 - 130		
1,3-Dichlorobenzene	541-73-1	MSD	1190	0	1030	115	73 - 130	RPD 3.29 (Max-40)	
1,4-Dichlorobenzene	106-46-7	MS	1140	0	1030	110	74 - 127		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dichlorobenzene	106-46-7	MSD	1170	0	1030	114	74 - 127	RPD 2.94 (Max-40)	
2-Butanone	78-93-3	MS	5990	0	5150	116	51 - 151		
2-Butanone	78-93-3	MSD	6180	0	5150	120	51 - 151	RPD 2.98 (Max-40)	
2-Hexanone	591-78-6	MS	4960	0	5150	96.1	66 - 133		
2-Hexanone	591-78-6	MSD	5110	0	5150	99	66 - 133	RPD 2.98 (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	5750	0	5150	112	70 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	5850	0	5150	113	70 - 130	RPD 1.66 (Max-40)	
Acetone	67-64-1	MS	6230	0	5150	121	42 - 154		
Acetone	67-64-1	MSD	6380	0	5150	124	42 - 154	RPD 2.39 (Max-40)	
Benzene	71-43-2	MS	1200	28.80	1030	114	77 - 134		
Benzene	71-43-2	MSD	1230	28.80	1030	116	77 - 134	RPD 2.35 (Max-40)	
Bromochloromethane	74-97-5	MS	1230	0	1030	119	70 - 124		
Bromochloromethane	74-97-5	MSD	1230	0	1030	119	70 - 124	RPD 0.07 (Max-40)	
Bromodichloromethane	75-27-4	MS	982	0	1030	95.3	73 - 133		
Bromodichloromethane	75-27-4	MSD	1030	0	1030	100	73 - 133	RPD 5.02 (Max-40)	
Bromoform	75-25-2	MS	954	0	1030	92.5	62 - 118		
Bromoform	75-25-2	MSD	965	0	1030	93.6	62 - 118	RPD 1.22 (Max-40)	
Bromomethane	74-83-9	MS	708	44.40	1030	64.3	41 - 143		
Bromomethane	74-83-9	MSD	712	44.40	1030	64.7	41 - 143	RPD 0.58 (Max-40)	
Carbon Disulfide	75-15-0	MS	954	0	1030	92.6	48 - 145		
Carbon Disulfide	75-15-0	MSD	1020	0	1030	99.1	48 - 145	RPD 6.81 (Max-40)	
Carbon Tetrachloride	56-23-5	MS	863	0	1030	83.7	64 - 139		
Carbon Tetrachloride	56-23-5	MSD	885	0	1030	85.8	64 - 139	RPD 2.49 (Max-40)	
Chlorobenzene	108-90-7	MS	1200	0	1030	116	76 - 130		
Chlorobenzene	108-90-7	MSD	1220	0	1030	119	76 - 130	RPD 2.02 (Max-40)	
Chlorodibromomethane	124-48-1	MS	975	0	1030	94.6	69 - 122		
Chlorodibromomethane	124-48-1	MSD	995	0	1030	96.5	69 - 122	RPD 1.96 (Max-40)	
Chloroethane	75-00-3	MS	309	0	1030	29.9	14 - 152		
Chloroethane	75-00-3	MSD	300	0	1030	29.1	14 - 152	RPD 2.84 (Max-40)	
Chloroform	67-66-3	MS	1160	0	1030	113	75 - 127		
Chloroform	67-66-3	MSD	1200	0	1030	116	75 - 127	RPD 3.05 (Max-40)	
Chloromethane	74-87-3	MS	1180	11.60	1030	114	31 - 167		
Chloromethane	74-87-3	MSD	1190	11.60	1030	114	31 - 167	RPD 0.27 (Max-40)	
cis-1,2-Dichloroethene	156-59-2	MS	1170	0	1030	114	68 - 137		
cis-1,2-Dichloroethene	156-59-2	MSD	1200	0	1030	117	68 - 137	RPD 2.53 (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	MS	936	0	1030	90.8	70 - 129		
cis-1,3-Dichloropropene	10061-01-5	MSD	957	0	1030	92.9	70 - 129	RPD 2.29 (Max-40)	
Cyclohexane	110-82-7	MS	1320	0	1030	128	63 - 151		
Cyclohexane	110-82-7	MSD	1350	0	1030	131	63 - 151	RPD 2.21 (Max-40)	
Dichlorodifluoromethane	75-71-8	MS	1070	0	1030	104	10 - 180		
Dichlorodifluoromethane	75-71-8	MSD	1050	0	1030	102	10 - 180	RPD 1.30 (Max-40)	
Ethylbenzene	100-41-4	MS	1260	0	1030	122	76 - 136		
Ethylbenzene	100-41-4	MSD	1280	0	1030	124	76 - 136	RPD 1.48 (Max-40)	
Freon 113	76-13-1	MS	1310	0	1030	127*	42 - 109		
Freon 113	76-13-1	MSD	1370	0	1030	132*	42 - 109	RPD 4.49 (Max-40)	
Isopropylbenzene	98-82-8	MS	1350	6.20	1030	131	72 - 137		
Isopropylbenzene	98-82-8	MSD	1390	6.20	1030	134	72 - 137	RPD 2.51 (Max-40)	
Methyl acetate	79-20-9	MS	1170	61.60	1030	107	70 - 130		
Methyl acetate	79-20-9	MSD	1200	61.60	1030	110	70 - 130	RPD 2.66 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl cyclohexane	108-87-2	MS	1320	30.80	1030	125	70 - 130		
Methyl cyclohexane	108-87-2	MSD	1390	30.80	1030	132*	70 - 130	RPD 4.77 (Max-40)	
Methyl t-Butyl Ether	1634-04-4	MS	1150	0	1030	111	65 - 120		
Methyl t-Butyl Ether	1634-04-4	MSD	1170	0	1030	113	65 - 120	RPD 1.52 (Max-40)	
Methylene Chloride	75-09-2	MS	1190	48.40	1030	111	73 - 129		
Methylene Chloride	75-09-2	MSD	1190	48.40	1030	111	73 - 129	RPD 0.08 (Max-40)	
mp-Xylene	108383/106423	MS	2490	15.70	2060	120	75 - 137		
mp-Xylene	108383/106423	MSD	2570	15.70	2060	124	75 - 137	RPD 3.13 (Max-40)	
o-Xylene	95-47-6	MS	1270	0	1030	123	74 - 135		
o-Xylene	95-47-6	MSD	1300	0	1030	126	74 - 135	RPD 2.46 (Max-40)	
Styrene	100-42-5	MS	1140	0	1030	111	72 - 134		
Styrene	100-42-5	MSD	1150	0	1030	111	72 - 134	RPD 0.75 (Max-40)	
Tetrachloroethene	127-18-4	MS	1250	0	1030	121	73 - 134		
Tetrachloroethene	127-18-4	MSD	1320	0	1030	128	73 - 134	RPD 5.37 (Max-40)	
Toluene	108-88-3	MS	1220	21.70	1030	116	73 - 134		
Toluene	108-88-3	MSD	1240	21.70	1030	118	73 - 134	RPD 1.68 (Max-40)	
Total Xylenes	1330-20-7	MS	3760	0	3090	122	75 - 136		
Total Xylenes	1330-20-7	MSD	3870	0	3090	125	75 - 136	RPD 2.91 (Max-40)	
trans-1,2-Dichloroethene	156-60-5	MS	1180	0	1030	114	69 - 130		
trans-1,2-Dichloroethene	156-60-5	MSD	1210	0	1030	117	69 - 130	RPD 2.48 (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	MS	995	0	1030	96.5	67 - 129		
trans-1,3-Dichloropropene	10061-02-6	MSD	1030	0	1030	99.8	67 - 129	RPD 3.29 (Max-40)	
Trichloroethene	79-01-6	MS	1210	0	1030	118	77 - 134		
Trichloroethene	79-01-6	MSD	1220	0	1030	118	77 - 134	RPD 0.73 (Max-40)	
Trichlorofluoromethane	75-69-4	MS	287	0	1030	27.8	27 - 121		
Trichlorofluoromethane	75-69-4	MSD	306	0	1030	29.6	27 - 121	RPD 6.33 (Max-40)	
Vinyl Chloride	75-01-4	MS	1160	0	1030	112	5 - 200		
Vinyl Chloride	75-01-4	MSD	1160	0	1030	112	5 - 200	RPD 0.08 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	1470	1550	94.9	71 - 146	
1,2-Dichloroethane-d4	17060-07-0	MSD	1460	1550	94.7	71 - 146	
4-Bromofluorobenzene	460-00-4	MS	1550	1550	100	46 - 138	
4-Bromofluorobenzene	460-00-4	MSD	1520	1550	98.2	46 - 138	
Dibromofluoromethane	1868-53-7	MS	1490	1550	96.2	42 - 143	
Dibromofluoromethane	1868-53-7	MSD	1500	1550	97.1	42 - 143	
Toluene-d8	2037-26-5	MS	1530	1550	98.9	54 - 141	
Toluene-d8	2037-26-5	MSD	1510	1550	97.7	54 - 141	

Method Blank 3906189 (MB) Created on 11/15/2024 18:56 For QC Batch 1333060

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	50.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	50.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	100	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	100	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	46.9J	ug/kg	100	J
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	50.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	350	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	50.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	100	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	50.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	11.5J	ug/kg	50.0	J
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	50.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	50.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	500	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	250	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	250	ND
Acetone	67-64-1	BLK	ND	ug/kg	500	ND
Benzene	71-43-2	BLK	ND	ug/kg	50.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	50.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	50.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	50.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	50.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	50.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	50.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	50.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	50.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	50.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	50.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	50.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	50.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	50.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	50.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	50.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	50.0	ND
Freon 113	76-13-1	BLK	ND	ug/kg	50.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	50.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	100	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	50.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	50.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	50.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/kg	100	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	50.0	ND
Styrene	100-42-5	BLK	ND	ug/kg	50.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Toluene	108-88-3	BLK	ND	ug/kg	50.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	150	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	50.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	50.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	50.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	50.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	1370	1500	91.1	71 - 146	
4-Bromofluorobenzene	460-00-4	BLK	1470	1500	97.8	46 - 138	
Dibromofluoromethane	1868-53-7	BLK	1390	1500	92.5	42 - 143	
Toluene-d8	2037-26-5	BLK	1460	1500	97.2	54 - 141	

Lab Control Standard 3906190 (LCS) Created on 11/15/2024 18:56 For QC Batch 1333060

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	970		1000	97	69 - 136		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	1070		1000	107	69 - 125		
1,1,2-Trichloroethane	79-00-5	LCS	1100		1000	110	70 - 128		
1,1-Dichloroethane	75-34-3	LCS	978		1000	97.8	68 - 137		
1,1-Dichloroethene	75-35-4	LCS	924		1000	92.4	62 - 135		
1,2,3-Trichlorobenzene	87-61-6	LCS	1130		1000	113	41 - 143		
1,2,3-Trichloropropane	96-18-4	LCS	1060		1000	106	63 - 133		
1,2,4-Trichlorobenzene	120-82-1	LCS	1260		1000	126	61 - 134		
1,2,4-Trimethylbenzene	95-63-6	LCS	1070		1000	107	75 - 134		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	879		1000	87.9	37 - 131		
1,2-Dibromoethane	106-93-4	LCS	1120		1000	112	69 - 130		
1,2-Dichlorobenzene	95-50-1	LCS	1080		1000	108	73 - 127		
1,2-Dichloroethane	107-06-2	LCS	1000		1000	100	62 - 139		
1,2-Dichloroethene, Total	540-59-0	LCS	1980		2000	98.8	68 - 137		
1,2-Dichloropropane	78-87-5	LCS	1030		1000	103	77 - 133		
1,3,5-Trimethylbenzene	108-67-8	LCS	1090		1000	109	74 - 137		
1,3-Dichlorobenzene	541-73-1	LCS	1080		1000	108	73 - 130		
1,4-Dichlorobenzene	106-46-7	LCS	1080		1000	108	74 - 127		
2-Butanone	78-93-3	LCS	5790		5000	116	51 - 151		
2-Hexanone	591-78-6	LCS	4990		5000	99.8	66 - 133		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	5710		5000	114	70 - 130		
Acetone	67-64-1	LCS	6510		5000	130	42 - 154		
Benzene	71-43-2	LCS	976		1000	97.6	77 - 134		
Bromochloromethane	74-97-5	LCS	1150		1000	115	70 - 124		
Bromodichloromethane	75-27-4	LCS	969		1000	96.9	73 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromoform	75-25-2	LCS	1040		1000	104	62 - 118		
Bromomethane	74-83-9	LCS	924		1000	92.4	41 - 143		
Carbon Disulfide	75-15-0	LCS	898		1000	89.8	48 - 145		
Carbon Tetrachloride	56-23-5	LCS	720		1000	72	64 - 139		
Chlorobenzene	108-90-7	LCS	1060		1000	106	76 - 130		
Chlorodibromomethane	124-48-1	LCS	992		1000	99.2	69 - 122		
Chloroethane	75-00-3	LCS	669		1000	66.9	14 - 152		
Chloroform	67-66-3	LCS	999		1000	99.9	75 - 127		
Chloromethane	74-87-3	LCS	926		1000	92.6	31 - 167		
cis-1,2-Dichloroethene	156-59-2	LCS	1010		1000	101	68 - 137		
cis-1,3-Dichloropropene	10061-01-5	LCS	905		1000	90.5	70 - 129		
Cyclohexane	110-82-7	LCS	920		1000	92	63 - 151		
Dichlorodifluoromethane	75-71-8	LCS	729		1000	72.9	10 - 180		
Ethylbenzene	100-41-4	LCS	1070		1000	107	76 - 136		
Freon 113	76-13-1	LCS	953		1000	95.3	42 - 109		
Isopropylbenzene	98-82-8	LCS	1140		1000	114	72 - 137		
Methyl acetate	79-20-9	LCS	1130		1000	113	70 - 130		
Methyl cyclohexane	108-87-2	LCS	973		1000	97.3	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	1090		1000	109	65 - 120		
Methylene Chloride	75-09-2	LCS	1030		1000	103	73 - 129		
mp-Xylene	108383/106423	LCS	2130		2000	106	75 - 137		
o-Xylene	95-47-6	LCS	1110		1000	111	74 - 135		
Styrene	100-42-5	LCS	1000		1000	100	72 - 134		
Tetrachloroethene	127-18-4	LCS	928		1000	92.8	73 - 134		
Toluene	108-88-3	LCS	1010		1000	101	73 - 134		
Total Xylenes	1330-20-7	LCS	3240		3000	108	75 - 136		
trans-1,2-Dichloroethene	156-60-5	LCS	966		1000	96.6	69 - 130		
trans-1,3-Dichloropropene	10061-02-6	LCS	985		1000	98.5	67 - 129		
Trichloroethene	79-01-6	LCS	995		1000	99.5	77 - 134		
Trichlorofluoromethane	75-69-4	LCS	812		1000	81.2	27 - 121		
Vinyl Chloride	75-01-4	LCS	887		1000	88.7	5 - 200		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	1350	1500	90	71 - 146	
4-Bromofluorobenzene	460-00-4	LCS	1440	1500	96.3	46 - 138	
Dibromofluoromethane	1868-53-7	LCS	1500	1500	99.8	42 - 143	
Toluene-d8	2037-26-5	LCS	1450	1500	96.8	54 - 141	

QC Batch

QC Batch	1336310	Prep Method	SW846 5035A
Date	11/20/2024 23:58	Analysis Method	SW846 8260D
Tech.	PDK		

Associated Samples

3387420007 3387420006

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Method Blank 3908257 (MB) Created on 11/20/2024 23:58 For QC Batch 1336310

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	2.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	2.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	2.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	2.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	2.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	5.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/kg	5.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	2.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	2.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	2.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	2.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	2.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	4.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	2.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/kg	2.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	2.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	2.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	10.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	10.0	ND
Acetone	67-64-1	BLK	ND	ug/kg	10.0	ND
Benzene	71-43-2	BLK	ND	ug/kg	2.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	2.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	2.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	2.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	2.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	2.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	2.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	2.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	2.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	5.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	2.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	2.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	2.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	2.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	2.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	2.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	2.0	ND
Freon 113	76-13-1	BLK	ND	ug/kg	2.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	2.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	2.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	2.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	2.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
mp-Xylene	108383/106423	BLK	ND	ug/kg	4.0	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	2.0	ND
Styrene	100-42-5	BLK	ND	ug/kg	2.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	2.0	ND
Toluene	108-88-3	BLK	ND	ug/kg	2.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	6.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	2.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	2.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	2.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	2.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	2.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	28.2	30	94	56 - 124	
4-Bromofluorobenzene	460-00-4	BLK	31.9	30	106	51 - 128	
Dibromofluoromethane	1868-53-7	BLK	29.1	30	97	62 - 123	
Toluene-d8	2037-26-5	BLK	30.5	30	102	59 - 131	

Lab Control Standard 3908258 (LCS) Created on 11/20/2024 23:58 For QC Batch 1336310

Lab Control Std Duplicate 3908259 (LCSD) Created on 11/20/2024 23:58 For QC Batch 1336310

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.8		20	109	68 - 131		
1,1,1-Trichloroethane	71-55-6	LCSD	20.8		20	104	68 - 131	RPD 4.52 (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.1		20	106	72 - 134		
1,1,2,2-Tetrachloroethane	79-34-5	LCSD	19.6		20	98	72 - 134	RPD 7.48 (Max-40)	
1,1,2-Trichloroethane	79-00-5	LCS	22		20	110	79 - 123		
1,1,2-Trichloroethane	79-00-5	LCSD	21.3		20	107	79 - 123	RPD 3.21 (Max-40)	
1,1-Dichloroethane	75-34-3	LCS	21.2		20	106	74 - 131		
1,1-Dichloroethane	75-34-3	LCSD	20.2		20	101	74 - 131	RPD 4.76 (Max-40)	
1,1-Dichloroethene	75-35-4	LCS	22.7		20	113	59 - 139		
1,1-Dichloroethene	75-35-4	LCSD	22		20	110	59 - 139	RPD 3.16 (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	LCS	24.9		20	124	68 - 129		
1,2,3-Trichlorobenzene	87-61-6	LCSD	22.9		20	114	68 - 129	RPD 8.35 (Max-40)	
1,2,3-Trichloropropane	96-18-4	LCS	20.4		20	102	74 - 130		
1,2,3-Trichloropropane	96-18-4	LCSD	19		20	94.9	74 - 130	RPD 7.08 (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	LCS	28.5		20	142*	63 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCSD	26.3		20	132	63 - 132	RPD 7.97 (Max-40)	
1,2,4-Trimethylbenzene	95-63-6	LCS	22.9		20	115	70 - 131		
1,2,4-Trimethylbenzene	95-63-6	LCSD	21.6		20	108	70 - 131	RPD 5.83 (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	LCS	16.5		20	82.3	52 - 151		
1,2-Dibromo-3-chloropropane	96-12-8	LCSD	14.8		20	73.9	52 - 151	RPD 10.80 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dibromoethane	106-93-4	LCS	22.9		20	114	76 - 127		
1,2-Dibromoethane	106-93-4	LCSD	21.7		20	108	76 - 127	RPD 5.44 (Max-40)	
1,2-Dichlorobenzene	95-50-1	LCS	22.5		20	113	75 - 126		
1,2-Dichlorobenzene	95-50-1	LCSD	21.3		20	107	75 - 126	RPD 5.61 (Max-40)	
1,2-Dichloroethane	107-06-2	LCS	19.6		20	98.2	69 - 132		
1,2-Dichloroethane	107-06-2	LCSD	18.5		20	92.7	69 - 132	RPD 5.71 (Max-40)	
1,2-Dichloroethene, Total	540-59-0	LCS	44.7		40	112	75 - 128		
1,2-Dichloroethene, Total	540-59-0	LCSD	43		40	107	75 - 128	RPD 3.89 (Max-40)	
1,2-Dichloropropane	78-87-5	LCS	22.3		20	111	78 - 131		
1,2-Dichloropropane	78-87-5	LCSD	21.3		20	107	78 - 131	RPD 4.53 (Max-40)	
1,3,5-Trimethylbenzene	108-67-8	LCS	23.1		20	115	71 - 132		
1,3,5-Trimethylbenzene	108-67-8	LCSD	22		20	110	71 - 132	RPD 4.82 (Max-40)	
1,3-Dichlorobenzene	541-73-1	LCS	22.6		20	113	72 - 127		
1,3-Dichlorobenzene	541-73-1	LCSD	21.3		20	106	72 - 127	RPD 5.98 (Max-40)	
1,4-Dichlorobenzene	106-46-7	LCS	21.9		20	109	72 - 126		
1,4-Dichlorobenzene	106-46-7	LCSD	20.5		20	103	72 - 126	RPD 6.45 (Max-40)	
2-Butanone	78-93-3	LCS	121		100	121	64 - 148		
2-Butanone	78-93-3	LCSD	110		100	110	64 - 148	RPD 9.62 (Max-40)	
2-Hexanone	591-78-6	LCS	116		100	116	62 - 147		
2-Hexanone	591-78-6	LCSD	108		100	108	62 - 147	RPD 7.49 (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	118		100	118	64 - 143		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCSD	110		100	110	64 - 143	RPD 6.98 (Max-40)	
Acetone	67-64-1	LCS	133		100	133	58 - 146		
Acetone	67-64-1	LCSD	123		100	123	58 - 146	RPD 8.06 (Max-40)	
Benzene	71-43-2	LCS	22		20	110	75 - 132		
Benzene	71-43-2	LCSD	21		20	105	75 - 132	RPD 4.65 (Max-40)	
Bromochloromethane	74-97-5	LCS	23.3		20	116	71 - 120		
Bromochloromethane	74-97-5	LCSD	22.3		20	111	71 - 120	RPD 4.41 (Max-40)	
Bromodichloromethane	75-27-4	LCS	22.5		20	113	74 - 127		
Bromodichloromethane	75-27-4	LCSD	21.5		20	108	74 - 127	RPD 4.67 (Max-40)	
Bromoform	75-25-2	LCS	17.6		20	88.2	68 - 131		
Bromoform	75-25-2	LCSD	16.7		20	83.4	68 - 131	RPD 5.65 (Max-40)	
Bromomethane	74-83-9	LCS	16.8		20	83.9	43 - 148		
Bromomethane	74-83-9	LCSD	15.9		20	79.4	43 - 148	RPD 5.48 (Max-40)	
Carbon Disulfide	75-15-0	LCS	22.5		20	112	47 - 144		
Carbon Disulfide	75-15-0	LCSD	21.4		20	107	47 - 144	RPD 4.85 (Max-40)	
Carbon Tetrachloride	56-23-5	LCS	21.5		20	108	64 - 136		
Carbon Tetrachloride	56-23-5	LCSD	20.4		20	102	64 - 136	RPD 5.48 (Max-40)	
Chlorobenzene	108-90-7	LCS	22.2		20	111	76 - 125		
Chlorobenzene	108-90-7	LCSD	21.2		20	106	76 - 125	RPD 4.35 (Max-40)	
Chlorodibromomethane	124-48-1	LCS	18.7		20	93.6	75 - 124		
Chlorodibromomethane	124-48-1	LCSD	18		20	89.9	75 - 124	RPD 4.11 (Max-40)	
Chloroethane	75-00-3	LCS	11.7		20	58.4	1 - 141		
Chloroethane	75-00-3	LCSD	13.7		20	68.3	1 - 141	RPD 15.70 (Max-40)	
Chloroform	67-66-3	LCS	21		20	105	73 - 126		
Chloroform	67-66-3	LCSD	20.1		20	101	73 - 126	RPD 4.04 (Max-40)	
Chloromethane	74-87-3	LCS	19.4		20	96.9	44 - 139		
Chloromethane	74-87-3	LCSD	18.6		20	93	44 - 139	RPD 4.11 (Max-40)	
cis-1,2-Dichloroethene	156-59-2	LCS	22.4		20	112	75 - 128		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
cis-1,2-Dichloroethene	156-59-2	LCSD	21.5		20	107	75 - 128	RPD 4.06 (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	LCS	20.3		20	101	76 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCSD	19.3		20	96.6	76 - 123	RPD 4.87 (Max-40)	
Cyclohexane	110-82-7	LCS	21.9		20	110	62 - 143		
Cyclohexane	110-82-7	LCSD	20.8		20	104	62 - 143	RPD 5.13 (Max-40)	
Dichlorodifluoromethane	75-71-8	LCS	17.9		20	89.5	16 - 152		
Dichlorodifluoromethane	75-71-8	LCSD	17.3		20	86.3	16 - 152	RPD 3.72 (Max-40)	
Ethylbenzene	100-41-4	LCS	23.4		20	117	73 - 133		
Ethylbenzene	100-41-4	LCSD	22.5		20	112	73 - 133	RPD 4.23 (Max-40)	
Freon 113	76-13-1	LCS	22.3		20	112*	40 - 109		
Freon 113	76-13-1	LCSD	21.3		20	106	40 - 109	RPD 4.96 (Max-40)	
Isopropylbenzene	98-82-8	LCS	23.6		20	118	71 - 137		
Isopropylbenzene	98-82-8	LCSD	22.7		20	113	71 - 137	RPD 3.94 (Max-40)	
Methyl acetate	79-20-9	LCS	21.2		20	106	70 - 130		
Methyl acetate	79-20-9	LCSD	19.9		20	99.7	70 - 130	RPD 6.17 (Max-40)	
Methyl cyclohexane	108-87-2	LCS	25		20	125	70 - 130		
Methyl cyclohexane	108-87-2	LCSD	23.8		20	119	70 - 130	RPD 5.06 (Max-40)	
Methyl t-Butyl Ether	1634-04-4	LCS	24.5		20	122*	70 - 118		
Methyl t-Butyl Ether	1634-04-4	LCSD	23.4		20	117	70 - 118	RPD 4.48 (Max-40)	
Methylene Chloride	75-09-2	LCS	20.8		20	104	68 - 133		
Methylene Chloride	75-09-2	LCSD	19.8		20	99.2	68 - 133	RPD 4.94 (Max-40)	
mp-Xylene	108383/106423	LCS	50.2		40	126	72 - 130		
mp-Xylene	108383/106423	LCSD	48.6		40	121	72 - 130	RPD 3.28 (Max-40)	
o-Xylene	95-47-6	LCS	21.4		20	107	75 - 129		
o-Xylene	95-47-6	LCSD	20.7		20	103	75 - 129	RPD 3.57 (Max-40)	
Styrene	100-42-5	LCS	21.8		20	109	77 - 130		
Styrene	100-42-5	LCSD	20.8		20	104	77 - 130	RPD 4.96 (Max-40)	
Tetrachloroethene	127-18-4	LCS	20.8		20	104	58 - 137		
Tetrachloroethene	127-18-4	LCSD	20.2		20	101	58 - 137	RPD 3.08 (Max-40)	
Toluene	108-88-3	LCS	22		20	110	73 - 129		
Toluene	108-88-3	LCSD	21.1		20	106	73 - 129	RPD 4.20 (Max-40)	
Total Xylenes	1330-20-7	LCS	71.6		60	119	73 - 130		
Total Xylenes	1330-20-7	LCSD	69.3		60	115	73 - 130	RPD 3.37 (Max-40)	
trans-1,2-Dichloroethene	156-60-5	LCS	22.3		20	112	66 - 133		
trans-1,2-Dichloroethene	156-60-5	LCSD	21.5		20	107	66 - 133	RPD 3.72 (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	LCS	21.8		20	109	77 - 123		
trans-1,3-Dichloropropene	10061-02-6	LCSD	20.7		20	103	77 - 123	RPD 5.27 (Max-40)	
Trichloroethene	79-01-6	LCS	21.3		20	106	72 - 129		
Trichloroethene	79-01-6	LCSD	20.3		20	102	72 - 129	RPD 4.60 (Max-40)	
Trichlorofluoromethane	75-69-4	LCS	17.2		20	85.9	40 - 130		
Trichlorofluoromethane	75-69-4	LCSD	16.9		20	84.4	40 - 130	RPD 1.70 (Max-40)	
Vinyl Chloride	75-01-4	LCS	19.5		20	97.7	53 - 141		
Vinyl Chloride	75-01-4	LCSD	18.9		20	94.3	53 - 141	RPD 3.47 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	27.9	30	93.1	56 - 124	
1,2-Dichloroethane-d4	17060-07-0	LCSD	26.2	30	87.2	56 - 124	
4-Bromofluorobenzene	460-00-4	LCS	32.3	30	108	51 - 128	
4-Bromofluorobenzene	460-00-4	LCSD	30.1	30	100	51 - 128	
Dibromofluoromethane	1868-53-7	LCS	30.9	30	103	62 - 123	
Dibromofluoromethane	1868-53-7	LCSD	28.8	30	95.9	62 - 123	
Toluene-d8	2037-26-5	LCS	31.2	30	104	59 - 131	
Toluene-d8	2037-26-5	LCSD	29.5	30	98.2	59 - 131	

Matrix Spike 3908281 (MS) 3387420007 For QC Batch 1336310

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	27.5	0	25.40	108	68 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	MS	25	0	25.40	98.5	72 - 134		
1,1,2-Trichloroethane	79-00-5	MS	24.2	0	25.40	95.3	79 - 123		
1,1-Dichloroethane	75-34-3	MS	26.5	0	25.40	104	74 - 131		
1,1-Dichloroethene	75-35-4	MS	28.7	0	25.40	113	59 - 139		
1,2,3-Trichlorobenzene	87-61-6	MS	11	0	25.40	43.4*	68 - 129		
1,2,3-Trichloropropane	96-18-4	MS	24.3	0	25.40	95.6	74 - 130		
1,2,4-Trichlorobenzene	120-82-1	MS	13.5	0	25.40	53.1*	63 - 132		
1,2,4-Trimethylbenzene	95-63-6	MS	24.1	0	25.40	95.1	70 - 131		
1,2-Dibromo-3-chloropropane	96-12-8	MS	14.9	0	25.40	58.7	52 - 151		
1,2-Dibromoethane	106-93-4	MS	21.8	0	25.40	85.8	76 - 127		
1,2-Dichlorobenzene	95-50-1	MS	17.5	0	25.40	69*	75 - 126		
1,2-Dichloroethane	107-06-2	MS	22.3	0	25.40	87.7	69 - 132		
1,2-Dichloroethene, Total	540-59-0	MS	51.1	0	50.80	101	75 - 128		
1,2-Dichloropropane	78-87-5	MS	25.7	0	25.40	101	78 - 131		
1,3,5-Trimethylbenzene	108-67-8	MS	26.1	0	25.40	103	71 - 132		
1,3-Dichlorobenzene	541-73-1	MS	18.7	0	25.40	73.6	72 - 127		
1,4-Dichlorobenzene	106-46-7	MS	17.5	0	25.40	69.1*	72 - 126		
2-Butanone	78-93-3	MS	133	0	127	105	64 - 148		
2-Hexanone	591-78-6	MS	124	0	127	97.5	62 - 147		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	136	0	127	107	64 - 143		
Acetone	67-64-1	MS	162	0	127	128	58 - 146		
Benzene	71-43-2	MS	26	0.83	25.40	99.2	75 - 132		
Bromochloromethane	74-97-5	MS	25.9	0	25.40	102	71 - 120		
Bromodichloromethane	75-27-4	MS	23.9	0	25.40	94.3	74 - 127		
Bromoform	75-25-2	MS	18	0	25.40	71	68 - 131		
Bromomethane	74-83-9	MS	19.6	0	25.40	77.2	43 - 148		
Carbon Disulfide	75-15-0	MS	24.3	0	25.40	95.9	47 - 144		
Carbon Tetrachloride	56-23-5	MS	26.4	0	25.40	104	64 - 136		
Chlorobenzene	108-90-7	MS	20.9	0	25.40	82.5	76 - 125		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chlorodibromomethane	124-48-1	MS	18.5	0	25.40	72.9*	75 - 124		
Chloroethane	75-00-3	MS	26.1	0	25.40	103	1 - 141		
Chloroform	67-66-3	MS	25.5	0	25.40	100	73 - 126		
Chloromethane	74-87-3	MS	25.4	0	25.40	100	44 - 139		
cis-1,2-Dichloroethene	156-59-2	MS	25.5	0	25.40	101	75 - 128		
cis-1,3-Dichloropropene	10061-01-5	MS	20.1	0	25.40	79.3	76 - 123		
Cyclohexane	110-82-7	MS	27.6	0	25.40	109	62 - 143		
Dichlorodifluoromethane	75-71-8	MS	26.3	0	25.40	104	16 - 152		
Ethylbenzene	100-41-4	MS	24.6	0	25.40	96.8	73 - 133		
Freon 113	76-13-1	MS	29.9	0	25.40	118*	40 - 109		
Isopropylbenzene	98-82-8	MS	29.3	0	25.40	116	71 - 137		
Methyl acetate	79-20-9	MS	35.2	0	25.40	139*	70 - 130		
Methyl cyclohexane	108-87-2	MS	28	0	25.40	110	70 - 130		
Methyl t-Butyl Ether	1634-04-4	MS	29.3	0	25.40	115	70 - 118		
Methylene Chloride	75-09-2	MS	25.9	1.10	25.40	98	68 - 133		
mp-Xylene	108383/106423	MS	50.7	0	50.80	100	72 - 130		
o-Xylene	95-47-6	MS	20.9	0	25.40	82.2	75 - 129		
Styrene	100-42-5	MS	22	0	25.40	86.5	77 - 130		
Tetrachloroethene	127-18-4	MS	21.5	0	25.40	84.7	58 - 137		
Toluene	108-88-3	MS	24.4	0	25.40	96.1	73 - 129		
Total Xylenes	1330-20-7	MS	71.6	0	76.10	94	73 - 130		
trans-1,2-Dichloroethene	156-60-5	MS	25.6	0	25.40	101	66 - 133		
trans-1,3-Dichloropropene	10061-02-6	MS	20.1	0	25.40	79.3	77 - 123		
Trichloroethene	79-01-6	MS	23.9	0	25.40	94.2	72 - 129		
Trichlorofluoromethane	75-69-4	MS	26.6	0	25.40	105	40 - 130		
Vinyl Chloride	75-01-4	MS	25.5	0	25.40	101	53 - 141		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	38.5	38.10	101	56 - 124	
4-Bromofluorobenzene	460-00-4	MS	42.6	38.10	112	51 - 128	
Dibromofluoromethane	1868-53-7	MS	38.7	38.10	102	62 - 123	
Toluene-d8	2037-26-5	MS	38.2	38.10	100	59 - 131	

QC Batch

QC Batch	1338594	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3387420009

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Matrix Spike 3909440 (MS) 3387943003 (non-Project Sample) For QC Batch 1338594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909441 (MSD) 3387943003 (non-Project Sample) For QC Batch 1338594

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	23.6	0	20	118	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	24.6	0	20	123	66 - 130	RPD 4.31 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	24.9	0	20	124	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	26.8	0	20	134	74 - 135	RPD 7.36 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	24	0	20	120	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	24.7	0	20	123	82 - 126	RPD 2.57 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	22.7	0	20	113	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	23.7	0	20	118	78 - 124	RPD 4.35 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	23.9	0	20	119	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	24.9	0	20	124	63 - 128	RPD 4.15 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	21.6	0	20	108	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	23.6	0	20	118	61 - 126	RPD 9.15 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	24.2	0	20	121	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	26.2	0	20	131	75 - 132	RPD 7.66 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	22.5	0	20	112	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	24.6	0	20	123	67 - 123	RPD 8.99 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.8	0	20	109	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	23.4	0	20	117	76 - 125	RPD 7.07 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	24.8	0	20	124	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	26.4	0	20	132	59 - 133	RPD 6.51 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	23.1	0	20	116	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	24.1	0	20	121	80 - 124	RPD 4.11 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	20.6	0	20	103	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	22.4	0	20	112	82 - 118	RPD 8.16 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	22.3	0	20	111	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	22.9	0	20	114	70 - 133	RPD 2.76 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	23.1	0	20	115	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	24	0	20	120	81 - 127	RPD 3.89 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	22.3	0	20	112	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	24.1	0	20	120	76 - 125	RPD 7.47 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	20.3	0	20	101	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	21.9	0	20	109	81 - 118	RPD 7.53 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	20.3	0	20	102	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	21.9	0	20	110	81 - 116	RPD 7.58 (Max-15)	
2-Butanone	78-93-3	MS	121	0	100	121	50 - 152		
2-Butanone	78-93-3	MSD	129	0	100	129	50 - 152	RPD 6.40 (Max-16)	
2-Hexanone	591-78-6	MS	132	0	100	132	65 - 154		
2-Hexanone	591-78-6	MSD	136	0	100	136	65 - 154	RPD 2.71 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	133	0	100	133	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	137	0	100	137	71 - 146	RPD 2.73 (Max-16)	
Acetone	67-64-1	MS	121	0	100	121	40 - 151		
Acetone	67-64-1	MSD	124	0	100	124	40 - 151	RPD 2.93 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzene	71-43-2	MS	22.3	0	20	111	80 - 124		
Benzene	71-43-2	MSD	23.3	0	20	116	80 - 124	RPD 4.55 (Max-26)	
Bromochloromethane	74-97-5	MS	21.8	0	20	109	73 - 117		
Bromochloromethane	74-97-5	MSD	23.1	0	20	116	73 - 117	RPD 5.99 (Max-19)	
Bromodichloromethane	75-27-4	MS	23.1	0	20	116	79 - 126		
Bromodichloromethane	75-27-4	MSD	24.4	0	20	122	79 - 126	RPD 5.25 (Max-16)	
Bromoform	75-25-2	MS	21	0	20	105	70 - 123		
Bromoform	75-25-2	MSD	23.1	0	20	116	70 - 123	RPD 9.85 (Max-16)	
Bromomethane	74-83-9	MS	16.1	0	20	80.4	45 - 148		
Bromomethane	74-83-9	MSD	17.8	0	20	88.8	45 - 148	RPD 9.94 (Max-26)	
Carbon Disulfide	75-15-0	MS	21.9	0	20	110	57 - 131		
Carbon Disulfide	75-15-0	MSD	23.3	0	20	116	57 - 131	RPD 5.92 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	19.9	0	20	99.6	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	20.9	0	20	104	62 - 132	RPD 4.64 (Max-17)	
Chlorobenzene	108-90-7	MS	21.3	0	20	106	85 - 117		
Chlorobenzene	108-90-7	MSD	22.1	0	20	110	85 - 117	RPD 3.74 (Max-15)	
Chlorodibromomethane	124-48-1	MS	20.1	0	20	100	77 - 122		
Chlorodibromomethane	124-48-1	MSD	20.8	0	20	104	77 - 122	RPD 3.42 (Max-15)	
Chloroethane	75-00-3	MS	21.1	0	20	106	51 - 142		
Chloroethane	75-00-3	MSD	21	0	20	105	51 - 142	RPD 0.63 (Max-24)	
Chloroform	67-66-3	MS	26.5	4.80	20	108	78 - 122		
Chloroform	67-66-3	MSD	27.8	4.80	20	115	78 - 122	RPD 4.62 (Max-16)	
Chloromethane	74-87-3	MS	21.3	0	20	106	38 - 156		
Chloromethane	74-87-3	MSD	22.9	0	20	114	38 - 156	RPD 7.13 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	22.9	0	20	115	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	24	0	20	120	78 - 125	RPD 4.81 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.2	0	20	95.8	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	20.2	0	20	101	81 - 121	RPD 5.33 (Max-16)	
Cyclohexane	110-82-7	MS	24	0	20	120	66 - 130		
Cyclohexane	110-82-7	MSD	25.3	0	20	126	66 - 130	RPD 5.32 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	20.4	0	20	102	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	21	0	20	105	17 - 166	RPD 3.31 (Max-24)	
Ethylbenzene	100-41-4	MS	21.9	0	20	109	80 - 124		
Ethylbenzene	100-41-4	MSD	22.8	0	20	114	80 - 124	RPD 4.40 (Max-19)	
Freon 113	76-13-1	MS	23.8	0	20	119	50 - 130		
Freon 113	76-13-1	MSD	24.1	0	20	120	50 - 130	RPD 1.14 (Max-26)	
Isopropylbenzene	98-82-8	MS	24	0	20	120	73 - 129		
Isopropylbenzene	98-82-8	MSD	26.1	0	20	130*	73 - 129	RPD 8.06 (Max-18)	
Methyl acetate	79-20-9	MS	21.9	0	20	110	70 - 130		
Methyl acetate	79-20-9	MSD	22.1	0	20	111	70 - 130	RPD 0.72 (Max-18)	
Methyl cyclohexane	108-87-2	MS	22.8	0	20	114	70 - 130		
Methyl cyclohexane	108-87-2	MSD	23.6	0	20	118	70 - 130	RPD 3.44 (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	23.3	0	20	117*	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	24.6	0	20	123*	69 - 115	RPD 5.18 (Max-20)	
Methylene Chloride	75-09-2	MS	22.1	0	20	110	76 - 121		
Methylene Chloride	75-09-2	MSD	23.2	0	20	116	76 - 121	RPD 5.04 (Max-17)	
mp-Xylene	108383/106423	MS	43.4	0	40	108	79 - 125		
mp-Xylene	108383/106423	MSD	45.1	0	40	113	79 - 125	RPD 3.89 (Max-21)	
o-Xylene	95-47-6	MS	21.6	0	20	108	79 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
o-Xylene	95-47-6	MSD	22.8	0	20	114	79 - 124	RPD 5.10 (Max-19)	
Styrene	100-42-5	MS	18.7	0	20	93.3	79 - 123		
Styrene	100-42-5	MSD	20.2	0	20	101	79 - 123	RPD 7.94 (Max-16)	
Tetrachloroethene	127-18-4	MS	19.7	0	20	98.7	72 - 124		
Tetrachloroethene	127-18-4	MSD	20.9	0	20	104	72 - 124	RPD 5.66 (Max-38)	
Toluene	108-88-3	MS	22.2	0	20	111	80 - 125		
Toluene	108-88-3	MSD	23.2	0	20	116	80 - 125	RPD 4.22 (Max-20)	
Total Xylenes	1330-20-7	MS	65	0	60	108	79 - 125		
Total Xylenes	1330-20-7	MSD	67.8	0	60	113	79 - 125	RPD 4.29 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	22.3	0	20	112	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	23.6	0	20	118	71 - 122	RPD 5.75 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	20.1	0	20	101	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	20.4	0	20	102	78 - 126	RPD 1.62 (Max-18)	
Trichloroethene	79-01-6	MS	21.5	0	20	108	77 - 124		
Trichloroethene	79-01-6	MSD	22.8	0	20	114	77 - 124	RPD 5.66 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	21.7	0	20	108	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	21.6	0	20	108	38 - 123	RPD 0.25 (Max-23)	
Vinyl Chloride	75-01-4	MS	23.9	0	20	119	27 - 138		
Vinyl Chloride	75-01-4	MSD	24.6	0	20	123	27 - 138	RPD 2.93 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	32.3	30	108	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	31.4	30	105	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	29.2	30	97.2	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	30.2	30	101	79 - 114	
Dibromofluoromethane	1868-53-7	MS	31.5	30	105	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	31.6	30	105	78 - 116	
Toluene-d8	2037-26-5	MS	31.4	30	105	76 - 127	
Toluene-d8	2037-26-5	MSD	30.7	30	102	76 - 127	

Method Blank 3909438 (MB) Created on 11/23/2024 10:08 For QC Batch 1338594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	0.33J	ug/L	1.0	J
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	0.39J	ug/L	1.0	J
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.6	30	102	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	31.4	30	105	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.4	30	94.6	78 - 116	
Toluene-d8	2037-26-5	BLK	29.9	30	99.7	76 - 127	

Lab Control Standard 3909439 (LCS) Created on 11/23/2024 10:08 For QC Batch 1338594

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.5		20	108	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	24.2		20	121	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	22.7		20	113	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	21		20	105	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.4		20	107	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	23.1		20	115	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	23.3		20	117	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.2		20	121	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22.2		20	111	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	23.7		20	118	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	22.2		20	111	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.2		20	106	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.8		20	104	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21.5		20	107	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.3		20	112	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.9		20	104	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.1		20	105	81 - 116		
2-Butanone	78-93-3	LCS	125		100	125	50 - 152		
2-Hexanone	591-78-6	LCS	128		100	128	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	120		100	120	71 - 146		
Acetone	67-64-1	LCS	149		100	149	40 - 151		
Benzene	71-43-2	LCS	20.5		20	103	80 - 124		
Bromochloromethane	74-97-5	LCS	21.3		20	106	73 - 117		
Bromodichloromethane	75-27-4	LCS	22.4		20	112	79 - 126		
Bromoform	75-25-2	LCS	21.9		20	109	70 - 123		
Bromomethane	74-83-9	LCS	15.9		20	79.6	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.2		20	106	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19		20	95	62 - 132		
Chlorobenzene	108-90-7	LCS	20.8		20	104	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.7		20	98.7	77 - 122		
Chloroethane	75-00-3	LCS	19		20	95.1	51 - 142		
Chloroform	67-66-3	LCS	20.2		20	101	78 - 122		
Chloromethane	74-87-3	LCS	20.9		20	104	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21.6		20	108	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.5		20	97.3	81 - 121		
Cyclohexane	110-82-7	LCS	21.4		20	107	66 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCS	19.2		20	95.8	17 - 166		
Ethylbenzene	100-41-4	LCS	20.7		20	104	80 - 124		
Freon 113	76-13-1	LCS	21.9		20	110	50 - 130		
Isopropylbenzene	98-82-8	LCS	23.9		20	120	73 - 129		
Methyl acetate	79-20-9	LCS	23.7		20	119	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22		20	110	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	22.3		20	111	69 - 115		
Methylene Chloride	75-09-2	LCS	21.2		20	106	76 - 121		
mp-Xylene	108383/106423	LCS	42.1		40	105	79 - 125		
o-Xylene	95-47-6	LCS	21.2		20	106	79 - 124		
Styrene	100-42-5	LCS	19.2		20	96	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.8		20	98.9	72 - 124		
Toluene	108-88-3	LCS	21.2		20	106	80 - 125		
Total Xylenes	1330-20-7	LCS	63.3		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.1		20	106	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	20.1		20	101	78 - 126		
Trichloroethene	79-01-6	LCS	20.1		20	100	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21		20	105	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.3		20	107	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	31.5	30	105	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	30.7	30	102	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	31.7	30	106	78 - 116	
Toluene-d8	2037-26-5	LCS	32.3	30	108	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1332173	Prep Method	N/A
Date	N/A	Analysis Method	S2540G-15
Tech.			

Associated Samples

3387420004	3387420007	3387420001	3387420005
3387420008	3387420002	3387420006	3387420003

Duplicate 3905249 (DUP) 3387399002 (non-Project Sample) For QC Batch 1332173

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	7.0115	5.7595	RPD	19.60* (Max-10)	
Total Solids	TSP	DUP	92.9884	94.2404	RPD	1.34 (Max-5)	

Duplicate 3905251 (DUP) 3387427007 (non-Project Sample) For QC Batch 1332173

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	15.5876	15.0066	RPD	3.80 (Max-10)	
Total Solids	TSP	DUP	84.4123	84.9933	RPD	0.69 (Max-5)	

Duplicate 3905252 (DUP) 3387430004 (non-Project Sample) For QC Batch 1332173

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	13.5269	12.9008	RPD	4.74 (Max-10)	
Total Solids	TSP	DUP	86.4730	87.0991	RPD	0.72 (Max-5)	

Duplicate 3905253 (DUP) 3387555004 (non-Project Sample) For QC Batch 1332173

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)				Qualifiers
Moisture	MOISTURE	DUP	13.6817	14.2624	RPD	4.16	(Max-10)	
Total Solids	TSP	DUP	86.3182	85.7375	RPD	0.68	(Max-5)	

Duplicate 3905254 (DUP) 3387618008 (non-Project Sample) For QC Batch 1332173

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)				Qualifiers
Moisture	MOISTURE	DUP	9.7578	9.3659	RPD	4.10	(Max-10)	
Total Solids	TSP	DUP	90.2421	90.6340	RPD	0.43	(Max-5)	

Duplicate 3905250 (DUP) 3387420004 For QC Batch 1332173

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)				Qualifiers
Moisture	MOISTURE	DUP	31.9943	29.5347	RPD	7.99	(Max-10)	
Total Solids	TSP	DUP	68.0056	70.4652	RPD	3.55	(Max-5)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3387420001	SB-201-14	SW846 3051A	1332374	11/15/2024 12:15	AXW	SW846 6010C	1335191
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1336295
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1334505
		SW846 5035A	1333060	11/12/2024 09:50	VLM	SW846 8260D	1333061
		N/A	N/A	N/A		S2540G-15	1332173
3387420002	SB-203-10	SW846 3051A	1332374	11/15/2024 12:15	AXW	SW846 6010C	1335191
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1336295
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1334505
		SW846 5035A	1333060	11/12/2024 11:20	VLM	SW846 8260D	1333061
		N/A	N/A	N/A		S2540G-15	1332173
3387420003	SB-204-10	SW846 3051A	1332374	11/15/2024 12:15	AXW	SW846 6010C	1335191
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1334505
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1336295
		SW846 5035A	1333060	11/12/2024 12:05	VLM	SW846 8260D	1333061
		N/A	N/A	N/A		S2540G-15	1332173
3387420004	SB-206-14	SW846 3051A	1332374	11/15/2024 12:15	AXW	SW846 6010C	1335191
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1334505
		SW846 5035A	1333060	11/12/2024 13:50	VLM	SW846 8260D	1333061
		N/A	N/A	N/A		S2540G-15	1332173
3387420005	SB-208-9.5	SW846 3051A	1332375	11/18/2024 11:05	AXW	SW846 6010C	1335189
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1334505
		SW846 5035A	1333060	11/12/2024 14:40	VLM	SW846 8260D	1333061
		N/A	N/A	N/A		S2540G-15	1332173
3387420006	SB-210-9	SW846 3051A	1332375	11/18/2024 11:05	AXW	SW846 6010C	1335189
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1334505
		SW846 5035A	1336310	11/12/2024 15:40	PDK	SW846 8260D	1336311
		N/A	N/A	N/A		S2540G-15	1332173
3387420007	SB-210-9D	SW846 3051A	1332375	11/18/2024 11:05	AXW	SW846 6010C	1335189
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1334505
		SW846 5035A	1336310	11/12/2024 16:00	PDK	SW846 8260D	1336311
		N/A	N/A	N/A		S2540G-15	1332173
3387420008	SB-206-12	SW846 3051A	1332375	11/18/2024 11:05	AXW	SW846 6010C	1335189
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1336295
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1334505
		SW846 5035A	1333060	11/12/2024 13:45	VLM	SW846 8260D	1333061
		N/A	N/A	N/A		S2540G-15	1332173
3387420009	TB-1	N/A	N/A	N/A		SW846 8260D	1338594

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3387420 Logged By: CXW PM: EXP

ALS Quote

- 1 of

Client Name: Michael Baker Intl.

Address: 100 Airside Drive Moon Twp., PA

Contact: C. Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

	Container Type	TCK	G								
	Container Size	3 40ml	8 oz								
	Preservative	MeOH DI	UNP	MJE 11/13/24							

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260D	SVOCs 8270E	TAL metals + Hg (6010D / 7471B)									
	Enter Number of Containers Per Sample or Field Results Below.																	
1	SB-201-14	11/12/24	0950		G	S	X	X	X	MJE 11/13/24								
2	SB-203-10	"	1120		"	"	X	X	X									
3	SB-204-10	"	1205		"	"	X	X	X									
4	SB-206-14	"	1350		"	"	X	X	X									
5	SB-208-9.5	"	1440		"	"	X	X	X									
6	SB-210-9	"	1540		"	"	X	X	X									
7	SB-210-9D	"	1600		"	"	X	X	X									
8	SB-206-12	↓	1345		↓	↓	X	X	X									
9	TB-1	—	—		—		X											
10																		

Temp Taken By: MJE Therm ID: 569 WO Temp (°C): 3°

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler Custody Temp By: MJE WO Temp (°C): 3° Therm ID: 569 NO YES

Sample Custoc S, list below:

Received on Ic

Coolers & Sam

Correct Contair

Sample Label/C

Adequate Sam

VOA only: Trip

NJ ≤ 4 days?

Courier/Tracking

Receipt Info Completed By:	MJE
Cooler Custody Seal Intact	Y N (NA)
Sample Custody Seal Intact	Y N (NA)
Received on Ice	(Y) N NA
Cooler & Samples Intact	(Y) N
Correct Containers Provided	(Y) N
Sample Label/COC Agree	(Y) N
Adequate Sample Volumes	(Y) N
CR6 Samples Filtered	Y N (NA)
OP Samples Filtered	Y N (NA)
VOA Trip Blank	(Y) N (NA)
NJ≤ 4 Days?	Y (N)
Rad Screen (uCi)	—
Courier/Tracking #:	281728097840
SDWA Compliance	Y (N)
PWSID	
WV Containers 0-6°C	Y N (NA)

: contact:

Sample(s) for F Ci)

Reportable SDV Y N

SDWA State of itact:

PWSID #

PWS Contact: *NoSampler-MJE 11/13/24

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

* The following sample is Considered "Hot": SB-206-12

☆ Each Tck has 1-G/MeOH 2-G/DI 1-G/UNP MJE 11/13/24

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11/12/24	1800	1	Dave Cavish / MBI	2	Fedex
11/13/24	855	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge, SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

281728097840

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3387696
Report ID 372546 on 12/9/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 14, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3387696001	SB-212-11	Solid	11/13/2024 08:50	11/14/2024 09:10	CBC	Collected By Client
3387696002	SB-214-9	Solid	11/13/2024 09:30	11/14/2024 09:10	CBC	Collected By Client
3387696003	SB-215-7	Solid	11/13/2024 10:15	11/14/2024 09:10	CBC	Collected By Client
3387696004	SB-200-10	Solid	11/13/2024 11:45	11/14/2024 09:10	CBC	Collected By Client
3387696005	SB-202-11	Solid	11/13/2024 15:30	11/14/2024 09:10	CBC	Collected By Client
3387696006	SB-202-11D	Solid	11/13/2024 15:45	11/14/2024 09:10	CBC	Collected By Client
3387696007	SB-205-11	Solid	11/13/2024 16:10	11/14/2024 09:10	CBC	Collected By Client
3387696008	TB-2	Ground Water	11/13/2024 16:10	11/14/2024 09:10	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID		
3387696002	SB-214-9	**S1**	The Internal Standard 1,4-Dichlorobenzene-d4 response yielded -56.40%D (limits -50/ +200%D) for the EPA method 8260 low level analysis.
3387696004	SB-200-10	**S2**	This sample was analyzed at a dilution in the 8260 volatiles analysis due to matrix. Reporting limits were adjusted accordingly.
3387696007	SB-205-11	**S3**	This sample was analyzed at a dilution in the 8260 volatiles analysis due to matrix. Reporting limits were adjusted accordingly.

Result Notations

Notation Ref.	
1	The QC sample type LCS for method SW846 8260D was outside the control limits for the analyte Freon 113. The % Recovery was reported as 112 and the control limits were 40 to 109.
2	The QC sample type LCS for method SW846 8260D was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 122 and the control limits were 70 to 118.
3	The CCV recovery yielded 27.58%D (limits +/-20%D) for method SW846 8260D for the analyte 1,2,3-Trichlorobenzene.
4	The CCV recovery yielded 35.68%D (limits +/-20%D) for method SW846 8260D for the analyte 1,2,4-Trichlorobenzene.
5	The QC sample type LCS for method SW846 8260D was outside the control limits for the analyte 1,2,4-Trichlorobenzene. The % Recovery was reported as 142 and the control limits were 63 to 132.
6	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Di-n-OCtylphthalate. The % Recovery was reported as 121 and the control limits were 80 to 120.
7	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2,4-Dinitrotoluene. The % Recovery was reported as 121 and the control limits were 80 to 120.
8	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 4-Nitroaniline. The % Recovery was reported as 123 and the control limits were 80 to 120.
9	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2-Nitrophenol. The % Recovery was reported as 124 and the control limits were 80 to 120.
10	The QC sample type LCS for method SW846 8270E was outside the control limits for the analyte mp-Cresol. The % Recovery was reported as 113 and the control limits were 60 to 109.
11	The QC sample type LCS for method SW846 8270E was outside the control limits for the analyte 4-Nitrophenol. The % Recovery was reported as 127 and the control limits were 53 to 124.

Detected Results Summary

Client Sample ID	SB-212-11	Collected	11/13/2024 08:50
Lab Sample ID	3387696001	Lab Receipt	11/14/2024 09:10

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	9560	mg/kg	11.8	3.9	SW846 6010C	#
Antimony, Total	1.1J	mg/kg	2.4	0.79	SW846 6010C	#
Arsenic, Total	6.7	mg/kg	2.4	0.79	SW846 6010C	#
Barium, Total	79.1	mg/kg	1.2	0.39	SW846 6010C	#
Beryllium, Total	1.1J	mg/kg	1.2	0.39	SW846 6010C	#
Cadmium, Total	0.94	mg/kg	0.59	0.20	SW846 6010C	#
Calcium, Total	18900	mg/kg	11.8	3.9	SW846 6010C	#
Chromium, Total	10.9	mg/kg	1.2	0.39	SW846 6010C	#
Cobalt, Total	7.4	mg/kg	1.2	0.39	SW846 6010C	#
Copper, Total	19.4	mg/kg	2.4	0.79	SW846 6010C	#
Iron, Total	18600	mg/kg	11.8	3.9	SW846 6010C	#
Lead, Total	39.7	mg/kg	2.4	0.79	SW846 6010C	#
Magnesium, Total	2630	mg/kg	11.8	3.9	SW846 6010C	#
Manganese, Total	564	mg/kg	1.2	0.39	SW846 6010C	#
Mercury, Total	0.091	mg/kg	0.057	0.018	SW846 7471B	#
Nickel, Total	11.0	mg/kg	2.4	0.79	SW846 6010C	#
Potassium, Total	6610	mg/kg	58.9	19.7	SW846 6010C	#
Selenium, Total	2.6J	mg/kg	5.9	2.0	SW846 6010C	#
Sodium, Total	1550	mg/kg	58.9	19.7	SW846 6010C	#
Vanadium, Total	14.1	mg/kg	1.2	0.39	SW846 6010C	#
Zinc, Total	107	mg/kg	2.4	0.79	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	306J	ug/kg	458	77.8	SW846 8270E	#
Acenaphthylene	233	ug/kg	229	77.8	SW846 8270E	#
Anthracene	348	ug/kg	229	77.8	SW846 8270E	#
Benzo(a)anthracene	639	ug/kg	229	77.8	SW846 8270E	#
Benzo(a)pyrene	568	ug/kg	229	77.8	SW846 8270E	#
Benzo(b)fluoranthene	544	ug/kg	229	77.8	SW846 8270E	#
Benzo(g,h,i)perylene	315	ug/kg	229	77.8	SW846 8270E	#
Benzo(k)fluoranthene	525	ug/kg	229	77.8	SW846 8270E	#
Chrysene	676	ug/kg	229	77.8	SW846 8270E	#
Dibenzofuran	106J	ug/kg	458	77.8	SW846 8270E	#
Fluoranthene	1420	ug/kg	229	77.8	SW846 8270E	#
Fluorene	144J	ug/kg	229	77.8	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	326	ug/kg	229	77.8	SW846 8270E	#
Naphthalene	405	ug/kg	229	77.8	SW846 8270E	#
Phenanthrene	1050	ug/kg	229	77.8	SW846 8270E	#
Pyrene	998	ug/kg	229	77.8	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	0.72J	ug/kg	2.3	0.59	SW846 8260D	#
Acetone	18.0	ug/kg	11.7	5.4	SW846 8260D	#
Benzene	2.0J	ug/kg	2.3	0.59	SW846 8260D	#
Carbon Disulfide	5.2	ug/kg	2.3	0.74	SW846 8260D	#
Cyclohexane	3.0	ug/kg	2.3	0.60	SW846 8260D	#
Methyl cyclohexane	4.3	ug/kg	2.3	0.66	SW846 8260D	#
Methylene Chloride	1.8J	ug/kg	2.3	0.91	SW846 8260D	#

Detected Results Summary

Sample - SB-212-11 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
o-Xylene	1.3J	ug/kg	2.3	0.68	SW846 8260D	#
WET CHEMISTRY						
Moisture	17.6	%	0.1	0.01	S2540G-15	#
Total Solids	82.4	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-214-9	Collected	11/13/2024 09:30
Lab Sample ID	3387696002	Lab Receipt	11/14/2024 09:10

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	7140	mg/kg	26.4	8.8	SW846 6010C	#
Antimony, Total	3.4J	mg/kg	5.3	1.8	SW846 6010C	#
Arsenic, Total	9.0	mg/kg	5.3	1.8	SW846 6010C	#
Barium, Total	88.6	mg/kg	2.6	0.88	SW846 6010C	#
Beryllium, Total	1.2J	mg/kg	2.6	0.88	SW846 6010C	#
Cadmium, Total	2.6	mg/kg	1.3	0.44	SW846 6010C	#
Calcium, Total	132000	mg/kg	26.4	8.8	SW846 6010C	#
Chromium, Total	22.2	mg/kg	2.6	0.88	SW846 6010C	#
Cobalt, Total	21.1	mg/kg	2.6	0.88	SW846 6010C	#
Copper, Total	40.0	mg/kg	5.3	1.8	SW846 6010C	#
Iron, Total	74200	mg/kg	26.4	8.8	SW846 6010C	#
Lead, Total	69.5	mg/kg	5.3	1.8	SW846 6010C	#
Magnesium, Total	19100	mg/kg	26.4	8.8	SW846 6010C	#
Manganese, Total	2350	mg/kg	2.6	0.88	SW846 6010C	#
Mercury, Total	0.030J	mg/kg	0.061	0.020	SW846 7471B	#
Nickel, Total	13.8	mg/kg	5.3	1.8	SW846 6010C	#
Potassium, Total	1630	mg/kg	132	44.1	SW846 6010C	#
Selenium, Total	6.2J	mg/kg	13.2	4.4	SW846 6010C	#
Sodium, Total	465	mg/kg	132	44.1	SW846 6010C	#
Thallium, Total	5.2J	mg/kg	7.9	2.6	SW846 6010C	#
Vanadium, Total	28.2	mg/kg	2.6	0.88	SW846 6010C	#
Zinc, Total	289	mg/kg	5.3	1.8	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	305J	ug/kg	556	94.5	SW846 8270E	#
Acenaphthylene	351	ug/kg	278	94.5	SW846 8270E	#
Anthracene	527	ug/kg	278	94.5	SW846 8270E	#
Benzo(a)anthracene	1190	ug/kg	278	94.5	SW846 8270E	#
Benzo(a)pyrene	1260	ug/kg	278	94.5	SW846 8270E	#
Benzo(b)fluoranthene	1060	ug/kg	278	94.5	SW846 8270E	#
Benzo(g,h,i)perylene	633	ug/kg	278	94.5	SW846 8270E	#
Benzo(k)fluoranthene	1100	ug/kg	278	94.5	SW846 8270E	#
Carbazole	101J	ug/kg	556	94.5	SW846 8270E	#
Chrysene	1330	ug/kg	278	94.5	SW846 8270E	#
Dibenzofuran	145J	ug/kg	556	94.5	SW846 8270E	#
Fluoranthene	3130	ug/kg	278	94.5	SW846 8270E	#
Fluorene	173J	ug/kg	278	94.5	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	637	ug/kg	278	94.5	SW846 8270E	#
Naphthalene	418	ug/kg	278	94.5	SW846 8270E	#
Phenanthrene	1520	ug/kg	278	94.5	SW846 8270E	#
Pyrene	1980	ug/kg	278	94.5	SW846 8270E	#
VOLATILE ORGANICS						
2-Butanone	21.2	ug/kg	14.4	4.6	SW846 8260D	#
Acetone	121	ug/kg	14.4	6.6	SW846 8260D	#
Carbon Disulfide	1.2J	ug/kg	2.9	0.91	SW846 8260D	#
Methylene Chloride	1.8J	ug/kg	2.9	1.1	SW846 8260D	#

Detected Results Summary

Sample - SB-214-9 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Moisture	30.8	%	0.1	0.01	S2540G-15	#
Total Solids	69.2	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-215-7	Collected	11/13/2024 10:15
Lab Sample ID	3387696003	Lab Receipt	11/14/2024 09:10

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	7800	mg/kg	22.9	7.6	SW846 6010C	#
Antimony, Total	3.3J	mg/kg	4.6	1.5	SW846 6010C	#
Arsenic, Total	11.5	mg/kg	4.6	1.5	SW846 6010C	#
Barium, Total	137	mg/kg	2.3	0.76	SW846 6010C	#
Beryllium, Total	1.4J	mg/kg	2.3	0.76	SW846 6010C	#
Cadmium, Total	3.1	mg/kg	1.1	0.38	SW846 6010C	#
Calcium, Total	129000	mg/kg	22.9	7.6	SW846 6010C	#
Chromium, Total	24.2	mg/kg	2.3	0.76	SW846 6010C	#
Cobalt, Total	23.4	mg/kg	2.3	0.76	SW846 6010C	#
Copper, Total	57.7	mg/kg	4.6	1.5	SW846 6010C	#
Iron, Total	87100	mg/kg	22.9	7.6	SW846 6010C	#
Lead, Total	51.9	mg/kg	4.6	1.5	SW846 6010C	#
Magnesium, Total	15000	mg/kg	22.9	7.6	SW846 6010C	#
Manganese, Total	4300	mg/kg	2.3	0.76	SW846 6010C	#
Mercury, Total	0.12	mg/kg	0.059	0.019	SW846 7471B	#
Nickel, Total	15.2	mg/kg	4.6	1.5	SW846 6010C	#
Potassium, Total	1280	mg/kg	115	38.3	SW846 6010C	#
Selenium, Total	6.6J	mg/kg	11.5	3.8	SW846 6010C	#
Sodium, Total	381	mg/kg	115	38.3	SW846 6010C	#
Thallium, Total	4.1J	mg/kg	6.9	2.3	SW846 6010C	#
Vanadium, Total	32.0	mg/kg	2.3	0.76	SW846 6010C	#
Zinc, Total	361	mg/kg	4.6	1.5	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	83.8J	ug/kg	417	70.8	SW846 8270E	#
Acenaphthylene	436	ug/kg	208	70.8	SW846 8270E	#
Anthracene	357	ug/kg	208	70.8	SW846 8270E	#
Benzo(a)anthracene	1340	ug/kg	208	70.8	SW846 8270E	#
Benzo(a)pyrene	1680	ug/kg	208	70.8	SW846 8270E	#
Benzo(b)fluoranthene	1500	ug/kg	208	70.8	SW846 8270E	#
Benzo(g,h,i)perylene	973	ug/kg	208	70.8	SW846 8270E	#
Benzo(k)fluoranthene	1520	ug/kg	208	70.8	SW846 8270E	#
Carbazole	101J	ug/kg	417	70.8	SW846 8270E	#
Chrysene	1450	ug/kg	208	70.8	SW846 8270E	#
Dibenzo(a,h)anthracene	277	ug/kg	208	70.8	SW846 8270E	#
Dibenzofuran	93.7J	ug/kg	417	70.8	SW846 8270E	#
Fluoranthene	2280	ug/kg	208	70.8	SW846 8270E	#
Fluorene	92.6J	ug/kg	208	70.8	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	1040	ug/kg	208	70.8	SW846 8270E	#
Naphthalene	392	ug/kg	208	70.8	SW846 8270E	#
Phenanthrene	957	ug/kg	208	70.8	SW846 8270E	#
Pyrene	1420	ug/kg	208	70.8	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	0.67J	ug/kg	2.2	0.55	SW846 8260D	#
Benzene	1.5J	ug/kg	2.2	0.55	SW846 8260D	#
Methyl cyclohexane	1.2J	ug/kg	2.2	0.62	SW846 8260D	#
Methylene Chloride	3.4	ug/kg	2.2	0.86	SW846 8260D	#

Detected Results Summary

Sample - SB-215-7 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
o-Xylene	1.2J	ug/kg	2.2	0.64	SW846 8260D	#
WET CHEMISTRY						
Moisture	15.8	%	0.1	0.01	S2540G-15	#
Total Solids	84.2	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-200-10	Collected	11/13/2024 11:45
Lab Sample ID	3387696004	Lab Receipt	11/14/2024 09:10

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	7050	mg/kg	22.0	7.3	SW846 6010C	#
Arsenic, Total	16.3	mg/kg	4.4	1.5	SW846 6010C	#
Barium, Total	51.1	mg/kg	2.2	0.73	SW846 6010C	#
Cadmium, Total	1.0J	mg/kg	1.1	0.37	SW846 6010C	#
Calcium, Total	16400	mg/kg	22.0	7.3	SW846 6010C	#
Chromium, Total	13.3	mg/kg	2.2	0.73	SW846 6010C	#
Cobalt, Total	12.0	mg/kg	2.2	0.73	SW846 6010C	#
Copper, Total	39.6	mg/kg	4.4	1.5	SW846 6010C	#
Iron, Total	21900	mg/kg	22.0	7.3	SW846 6010C	#
Lead, Total	49.6	mg/kg	4.4	1.5	SW846 6010C	#
Magnesium, Total	5820	mg/kg	22.0	7.3	SW846 6010C	#
Manganese, Total	405	mg/kg	2.2	0.73	SW846 6010C	#
Mercury, Total	0.071	mg/kg	0.050	0.016	SW846 7471B	#
Nickel, Total	21.8	mg/kg	4.4	1.5	SW846 6010C	#
Potassium, Total	783	mg/kg	110	36.7	SW846 6010C	#
Selenium, Total	5.1J	mg/kg	11.0	3.7	SW846 6010C	#
Sodium, Total	123	mg/kg	110	36.7	SW846 6010C	#
Thallium, Total	2.5J	mg/kg	6.6	2.2	SW846 6010C	#
Vanadium, Total	17.4	mg/kg	2.2	0.73	SW846 6010C	#
Zinc, Total	113	mg/kg	4.4	1.5	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	385J	ug/kg	408	69.4	SW846 8270E	#
Acenaphthene	156J	ug/kg	204	69.4	SW846 8270E	#
Acenaphthylene	136J	ug/kg	204	69.4	SW846 8270E	#
Anthracene	510	ug/kg	204	69.4	SW846 8270E	#
Benzo(a)anthracene	870	ug/kg	204	69.4	SW846 8270E	#
Benzo(a)pyrene	905	ug/kg	204	69.4	SW846 8270E	#
Benzo(b)fluoranthene	906	ug/kg	204	69.4	SW846 8270E	#
Benzo(g,h,i)perylene	498	ug/kg	204	69.4	SW846 8270E	#
Benzo(k)fluoranthene	788	ug/kg	204	69.4	SW846 8270E	#
Chrysene	1020	ug/kg	204	69.4	SW846 8270E	#
Dibenzofuran	207J	ug/kg	408	69.4	SW846 8270E	#
Fluoranthene	2420	ug/kg	204	69.4	SW846 8270E	#
Fluorene	247	ug/kg	204	69.4	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	464	ug/kg	204	69.4	SW846 8270E	#
Naphthalene	325	ug/kg	204	69.4	SW846 8270E	#
Phenanthrene	1460	ug/kg	204	69.4	SW846 8270E	#
Pyrene	1540	ug/kg	204	69.4	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	37.0J	ug/kg	43.2	10.8	SW846 8260D	#
1,3,5-Trimethylbenzene	11.3J	ug/kg	43.2	8.6	SW846 8260D	#
Bromomethane	23.2J	ug/kg	43.2	16.8	SW846 8260D	#
Cyclohexane	30.7J	ug/kg	43.2	12.5	SW846 8260D	#
Isopropylbenzene	10.5J	ug/kg	43.2	9.5	SW846 8260D	#
Methyl acetate	69.1J	ug/kg	86.3	13.8	SW846 8260D	#
Methyl cyclohexane	143	ug/kg	43.2	12.9	SW846 8260D	#

Detected Results Summary

Sample - SB-200-10 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
mp-Xylene	40.9J	ug/kg	86.3	22.4	SW846 8260D	#
o-Xylene	31.7J	ug/kg	43.2	14.2	SW846 8260D	#
Toluene	31.5J	ug/kg	43.2	9.9	SW846 8260D	#
Total Xylenes	72.6J	ug/kg	129	28.5	SW846 8260D	#
WET CHEMISTRY						
Moisture	10.9	%	0.1	0.01	S2540G-15	#
Total Solids	89.1	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-202-11	Collected	11/13/2024 15:30
Lab Sample ID	3387696005	Lab Receipt	11/14/2024 09:10

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	10600	mg/kg	15.5	5.2	SW846 6010C	#
Antimony, Total	6.9	mg/kg	3.1	1.0	SW846 6010C	#
Arsenic, Total	22.1	mg/kg	3.1	1.0	SW846 6010C	#
Barium, Total	58.5	mg/kg	1.6	0.52	SW846 6010C	#
Beryllium, Total	0.90J	mg/kg	1.6	0.52	SW846 6010C	#
Cadmium, Total	9.2	mg/kg	0.78	0.26	SW846 6010C	#
Calcium, Total	12500	mg/kg	15.5	5.2	SW846 6010C	#
Chromium, Total	35.7	mg/kg	1.6	0.52	SW846 6010C	#
Cobalt, Total	29.2	mg/kg	1.6	0.52	SW846 6010C	#
Copper, Total	93.0	mg/kg	3.1	1.0	SW846 6010C	#
Iron, Total	39900	mg/kg	15.5	5.2	SW846 6010C	#
Lead, Total	106	mg/kg	3.1	1.0	SW846 6010C	#
Magnesium, Total	8130	mg/kg	15.5	5.2	SW846 6010C	#
Manganese, Total	441	mg/kg	1.6	0.52	SW846 6010C	#
Mercury, Total	0.44	mg/kg	0.083	0.027	SW846 7471B	#
Nickel, Total	38.7	mg/kg	3.1	1.0	SW846 6010C	#
Potassium, Total	1320	mg/kg	77.7	25.9	SW846 6010C	#
Selenium, Total	6.8J	mg/kg	7.8	2.6	SW846 6010C	#
Silver, Total	0.73J	mg/kg	0.78	0.26	SW846 6010C	#
Sodium, Total	217	mg/kg	77.7	25.9	SW846 6010C	#
Thallium, Total	3.0J	mg/kg	4.7	1.6	SW846 6010C	#
Vanadium, Total	23.6	mg/kg	1.6	0.52	SW846 6010C	#
Zinc, Total	304	mg/kg	3.1	1.0	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	311J	ug/kg	578	98.2	SW846 8270E	#
Acenaphthene	208J	ug/kg	289	98.2	SW846 8270E	#
Acenaphthylene	143J	ug/kg	289	98.2	SW846 8270E	#
Anthracene	423	ug/kg	289	98.2	SW846 8270E	#
Benzo(a)anthracene	839	ug/kg	289	98.2	SW846 8270E	#
Benzo(a)pyrene	771	ug/kg	289	98.2	SW846 8270E	#
Benzo(b)fluoranthene	700	ug/kg	289	98.2	SW846 8270E	#
Benzo(g,h,i)perylene	449	ug/kg	289	98.2	SW846 8270E	#
Benzo(k)fluoranthene	556	ug/kg	289	98.2	SW846 8270E	#
Chrysene	937	ug/kg	289	98.2	SW846 8270E	#
Dibenzo(a,h)anthracene	138J	ug/kg	289	98.2	SW846 8270E	#
Dibenzofuran	209J	ug/kg	578	98.2	SW846 8270E	#
Fluoranthene	2040	ug/kg	289	98.2	SW846 8270E	#
Fluorene	452	ug/kg	289	98.2	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	363	ug/kg	289	98.2	SW846 8270E	#
mp-Cresol	210J	ug/kg	1160	196	SW846 8270E	#
Naphthalene	637	ug/kg	289	98.2	SW846 8270E	#
Phenanthrene	1520	ug/kg	289	98.2	SW846 8270E	#
Pyrene	1230	ug/kg	289	98.2	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	1.7J	ug/kg	3.5	0.88	SW846 8260D	#
1,3,5-Trimethylbenzene	2.1J	ug/kg	3.5	0.88	SW846 8260D	#

Detected Results Summary

Sample - SB-202-11 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
2-Butanone	18.6	ug/kg	17.6	5.6	SW846 8260D	#
Acetone	82.3	ug/kg	17.6	8.1	SW846 8260D	#
Carbon Disulfide	2.0J	ug/kg	3.5	1.1	SW846 8260D	#
Cyclohexane	1.7J	ug/kg	3.5	0.90	SW846 8260D	#
Isopropylbenzene	4.0	ug/kg	3.5	1.1	SW846 8260D	#
Methyl cyclohexane	3.4J	ug/kg	3.5	0.99	SW846 8260D	#
Methylene Chloride	2.3J	ug/kg	3.5	1.4	SW846 8260D	#
o-Xylene	2.7J	ug/kg	3.5	1.0	SW846 8260D	#
Total Xylenes	2.7J	ug/kg	10.6	2.5	SW846 8260D	#
WET CHEMISTRY						
Moisture	40.3	%	0.1	0.01	S2540G-15	#
Total Solids	59.7	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-202-11D	Collected	11/13/2024 15:45
Lab Sample ID	3387696006	Lab Receipt	11/14/2024 09:10

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	9520	mg/kg	13.1	4.4	SW846 6010C	#
Antimony, Total	4.9	mg/kg	2.6	0.88	SW846 6010C	#
Arsenic, Total	17.0	mg/kg	2.6	0.88	SW846 6010C	#
Barium, Total	51.0	mg/kg	1.3	0.44	SW846 6010C	#
Beryllium, Total	0.81J	mg/kg	1.3	0.44	SW846 6010C	#
Cadmium, Total	6.5	mg/kg	0.66	0.22	SW846 6010C	#
Calcium, Total	12700	mg/kg	13.1	4.4	SW846 6010C	#
Chromium, Total	29.4	mg/kg	1.3	0.44	SW846 6010C	#
Cobalt, Total	27.9	mg/kg	1.3	0.44	SW846 6010C	#
Copper, Total	76.2	mg/kg	2.6	0.88	SW846 6010C	#
Iron, Total	35900	mg/kg	13.1	4.4	SW846 6010C	#
Lead, Total	127	mg/kg	2.6	0.88	SW846 6010C	#
Magnesium, Total	7890	mg/kg	13.1	4.4	SW846 6010C	#
Manganese, Total	429	mg/kg	1.3	0.44	SW846 6010C	#
Mercury, Total	0.41	mg/kg	0.065	0.021	SW846 7471B	#
Nickel, Total	33.0	mg/kg	2.6	0.88	SW846 6010C	#
Potassium, Total	1130	mg/kg	65.6	21.9	SW846 6010C	#
Selenium, Total	4.4J	mg/kg	6.6	2.2	SW846 6010C	#
Silver, Total	0.49J	mg/kg	0.66	0.22	SW846 6010C	#
Sodium, Total	187	mg/kg	65.6	21.9	SW846 6010C	#
Thallium, Total	2.5J	mg/kg	3.9	1.3	SW846 6010C	#
Vanadium, Total	19.6	mg/kg	1.3	0.44	SW846 6010C	#
Zinc, Total	273	mg/kg	2.6	0.88	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	910	ug/kg	564	95.9	SW846 8270E	#
Acenaphthene	505	ug/kg	282	95.9	SW846 8270E	#
Acenaphthylene	365	ug/kg	282	95.9	SW846 8270E	#
Anthracene	1190	ug/kg	282	95.9	SW846 8270E	#
Benzo(a)anthracene	2050	ug/kg	282	95.9	SW846 8270E	#
Benzo(a)pyrene	1610	ug/kg	282	95.9	SW846 8270E	#
Benzo(b)fluoranthene	1580	ug/kg	282	95.9	SW846 8270E	#
Benzo(g,h,i)perylene	794	ug/kg	282	95.9	SW846 8270E	#
Benzo(k)fluoranthene	1320	ug/kg	282	95.9	SW846 8270E	#
Biphenyl	138J	ug/kg	564	95.9	SW846 8270E	#
Carbazole	216J	ug/kg	564	95.9	SW846 8270E	#
Chrysene	2230	ug/kg	282	95.9	SW846 8270E	#
Dibenzofuran	578	ug/kg	564	95.9	SW846 8270E	#
Fluoranthene	5240	ug/kg	282	95.9	SW846 8270E	#
Fluorene	1070	ug/kg	282	95.9	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	782	ug/kg	282	95.9	SW846 8270E	#
mp-Cresol	287J	ug/kg	1130	192	SW846 8270E	#
Naphthalene	1660	ug/kg	282	95.9	SW846 8270E	#
Phenanthrene	4390	ug/kg	282	95.9	SW846 8270E	#
Pyrene	3120	ug/kg	282	95.9	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	1.2J	ug/kg	3.0	0.75	SW846 8260D	#

Detected Results Summary

Sample - SB-202-11D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
1,3,5-Trimethylbenzene	1.4J	ug/kg	3.0	0.75	SW846 8260D	#
2-Butanone	11.3J	ug/kg	15.0	4.8	SW846 8260D	#
Acetone	53.0	ug/kg	15.0	6.9	SW846 8260D	#
Benzene	1.1J	ug/kg	3.0	0.75	SW846 8260D	#
Carbon Disulfide	1.3J	ug/kg	3.0	0.95	SW846 8260D	#
Cyclohexane	1.6J	ug/kg	3.0	0.77	SW846 8260D	#
Isopropylbenzene	3.8	ug/kg	3.0	0.92	SW846 8260D	#
Methyl cyclohexane	2.2J	ug/kg	3.0	0.84	SW846 8260D	#
Methylene Chloride	1.9J	ug/kg	3.0	1.2	SW846 8260D	#
o-Xylene	2.3J	ug/kg	3.0	0.87	SW846 8260D	#
Total Xylenes	2.3J	ug/kg	9.0	2.1	SW846 8260D	#
WET CHEMISTRY						
Moisture	33.1	%	0.1	0.01	S2540G-15	#
Total Solids	66.9	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-205-11	Collected	11/13/2024 16:10
Lab Sample ID	3387696007	Lab Receipt	11/14/2024 09:10

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	8920	mg/kg	14.3	4.8	SW846 6010C	#
Antimony, Total	2.2J	mg/kg	2.9	0.96	SW846 6010C	#
Arsenic, Total	14.9	mg/kg	2.9	0.96	SW846 6010C	#
Barium, Total	50.4	mg/kg	1.4	0.48	SW846 6010C	#
Beryllium, Total	0.95J	mg/kg	1.4	0.48	SW846 6010C	#
Cadmium, Total	3.3	mg/kg	0.72	0.24	SW846 6010C	#
Calcium, Total	30500	mg/kg	14.3	4.8	SW846 6010C	#
Chromium, Total	38.1	mg/kg	1.4	0.48	SW846 6010C	#
Cobalt, Total	27.5	mg/kg	1.4	0.48	SW846 6010C	#
Copper, Total	91.5	mg/kg	2.9	0.96	SW846 6010C	#
Iron, Total	60200	mg/kg	14.3	4.8	SW846 6010C	#
Lead, Total	87.9	mg/kg	2.9	0.96	SW846 6010C	#
Magnesium, Total	11700	mg/kg	14.3	4.8	SW846 6010C	#
Manganese, Total	906	mg/kg	1.4	0.48	SW846 6010C	#
Mercury, Total	0.26	mg/kg	0.063	0.020	SW846 7471B	#
Nickel, Total	35.2	mg/kg	2.9	0.96	SW846 6010C	#
Potassium, Total	903	mg/kg	71.7	24.0	SW846 6010C	#
Selenium, Total	6.5J	mg/kg	7.2	2.4	SW846 6010C	#
Silver, Total	0.62J	mg/kg	0.72	0.24	SW846 6010C	#
Sodium, Total	180	mg/kg	71.7	24.0	SW846 6010C	#
Thallium, Total	6.9	mg/kg	4.3	1.4	SW846 6010C	#
Vanadium, Total	23.3	mg/kg	1.4	0.48	SW846 6010C	#
Zinc, Total	330	mg/kg	2.9	0.96	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	1670	ug/kg	584	99.3	SW846 8270E	#
Acenaphthene	1680	ug/kg	292	99.3	SW846 8270E	#
Acenaphthylene	424	ug/kg	292	99.3	SW846 8270E	#
Anthracene	1770	ug/kg	292	99.3	SW846 8270E	#
Benzo(a)anthracene	2250	ug/kg	292	99.3	SW846 8270E	#
Benzo(a)pyrene	1940	ug/kg	292	99.3	SW846 8270E	#
Benzo(b)fluoranthene	1870	ug/kg	292	99.3	SW846 8270E	#
Benzo(g,h,i)perylene	862	ug/kg	292	99.3	SW846 8270E	#
Benzo(k)fluoranthene	1650	ug/kg	292	99.3	SW846 8270E	#
Biphenyl	162J	ug/kg	584	99.3	SW846 8270E	#
Carbazole	288J	ug/kg	584	99.3	SW846 8270E	#
Chrysene	2500	ug/kg	292	99.3	SW846 8270E	#
Dibenzo(a,h)anthracene	287J	ug/kg	292	99.3	SW846 8270E	#
Dibenzofuran	1050	ug/kg	584	99.3	SW846 8270E	#
Fluoranthene	6720	ug/kg	292	99.3	SW846 8270E	#
Fluorene	1770	ug/kg	292	99.3	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	946	ug/kg	292	99.3	SW846 8270E	#
Naphthalene	14100	ug/kg	292	99.3	SW846 8270E	#
Phenanthrene	6520	ug/kg	292	99.3	SW846 8270E	#
Pyrene	4120	ug/kg	292	99.3	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	34.8J	ug/kg	70.5	17.6	SW846 8260D	#

Detected Results Summary

Sample - SB-205-11 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
1,3,5-Trimethylbenzene	15.4J	ug/kg	70.5	14.1	SW846 8260D	#
Benzene	41.7J	ug/kg	70.5	16.2	SW846 8260D	#
Bromomethane	34.2J	ug/kg	70.5	27.5	SW846 8260D	#
Isopropylbenzene	20.9J	ug/kg	70.5	15.5	SW846 8260D	#
Methyl acetate	75.3J	ug/kg	141	22.6	SW846 8260D	#
Methyl cyclohexane	31.4J	ug/kg	70.5	21.1	SW846 8260D	#
mp-Xylene	54.3J	ug/kg	141	36.7	SW846 8260D	#
Toluene	49.1J	ug/kg	70.5	16.2	SW846 8260D	#
Total Xylenes	75.5J	ug/kg	211	46.5	SW846 8260D	#
WET CHEMISTRY						
Moisture	32.8	%	0.1	0.01	S2540G-15	#
Total Solids	67.2	%	0.1	0.01	S2540G-15	#

Results

Client Sample ID	SB-212-11	Collected	11/13/2024 08:50
Lab Sample ID	3387696001	Lab Receipt	11/14/2024 09:10

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	9560		mg/kg	11.8	3.9	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Antimony, Total	1.1J	J	mg/kg	2.4	0.79	SW846 6010C	1	12/05/2024 09:48	MSY	F1
Arsenic, Total	6.7		mg/kg	2.4	0.79	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Barium, Total	79.1		mg/kg	1.2	0.39	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Beryllium, Total	1.1J	J	mg/kg	1.2	0.39	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Cadmium, Total	0.94		mg/kg	0.59	0.20	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Calcium, Total	18900		mg/kg	11.8	3.9	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Chromium, Total	10.9		mg/kg	1.2	0.39	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Cobalt, Total	7.4		mg/kg	1.2	0.39	SW846 6010C	1	12/05/2024 09:48	MSY	F1
Copper, Total	19.4		mg/kg	2.4	0.79	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Iron, Total	18600		mg/kg	11.8	3.9	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Lead, Total	39.7		mg/kg	2.4	0.79	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Magnesium, Total	2630		mg/kg	11.8	3.9	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Manganese, Total	564		mg/kg	1.2	0.39	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Mercury, Total	0.091		mg/kg	0.057	0.018	SW846 7471B	1	11/26/2024 10:03	JMS	F
Nickel, Total	11.0		mg/kg	2.4	0.79	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Potassium, Total	6610		mg/kg	58.9	19.7	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Selenium, Total	2.6J	J	mg/kg	5.9	2.0	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Silver, Total	ND	ND	mg/kg	0.59	0.20	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Sodium, Total	1550		mg/kg	58.9	19.7	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Thallium, Total	ND	ND	mg/kg	3.5	1.2	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Vanadium, Total	14.1		mg/kg	1.2	0.39	SW846 6010C	1	12/03/2024 11:02	MSY	F1
Zinc, Total	107		mg/kg	2.4	0.79	SW846 6010C	1	12/03/2024 11:02	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
1,4-Dioxane	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	915	156	SW846 8270E	4	11/18/2024 17:53	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	915	156	SW846 8270E	4	11/18/2024 17:53	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	915	156	SW846 8270E	4	11/18/2024 17:53	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	915	156	SW846 8270E	4	11/18/2024 17:53	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	915	156	SW846 8270E	4	11/18/2024 17:53	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	1830	906	SW846 8270E	4	11/18/2024 17:53	S7M	F
2,4-Dinitrotoluene	ND	ND,7	ug/kg	458	91.5	SW846 8270E	4	11/18/2024 17:53	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	458	156	SW846 8270E	4	11/18/2024 17:53	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
2-Chlorophenol	ND	ND	ug/kg	915	156	SW846 8270E	4	11/18/2024 17:53	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	915	229	SW846 8270E	4	11/18/2024 17:53	S7M	F
2-Methylnaphthalene	306J	J	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
2-Nitroaniline	ND	ND	ug/kg	915	105	SW846 8270E	4	11/18/2024 17:53	S7M	F
2-Nitrophenol	ND	ND,9	ug/kg	915	156	SW846 8270E	4	11/18/2024 17:53	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	915	142	SW846 8270E	4	11/18/2024 17:53	S7M	F
3-Nitroaniline	ND	ND	ug/kg	915	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	915	156	SW846 8270E	4	11/18/2024 17:53	S7M	F

Results

Client Sample ID	SB-212-11	Collected	11/13/2024 08:50
Lab Sample ID	3387696001	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	915	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
4-Nitroaniline	ND	ND,8	ug/kg	915	133	SW846 8270E	4	11/18/2024 17:53	S7M	F
4-Nitrophenol	ND	ND	ug/kg	915	156	SW846 8270E	4	11/18/2024 17:53	S7M	F
Acenaphthene	ND	ND	ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Acenaphthylene	233		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Acetophenone	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Anthracene	348		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Atrazine	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Benzaldehyde	ND	ND	ug/kg	915	91.5	SW846 8270E	4	11/18/2024 17:53	S7M	F
Benzo(a)anthracene	639		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Benzo(a)pyrene	568		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Benzo(b)fluoranthene	544		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Benzo(g,h,i)perylene	315		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Benzo(k)fluoranthene	525		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Biphenyl	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	458	101	SW846 8270E	4	11/18/2024 17:53	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Caprolactam	ND	ND	ug/kg	915	179	SW846 8270E	4	11/18/2024 17:53	S7M	F
Carbazole	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Chrysene	676		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Dibenzo(a,h)anthracene	ND	ND	ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Dibenzofuran	106J	J	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Diethylphthalate	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Dimethylphthalate	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	458	160	SW846 8270E	4	11/18/2024 17:53	S7M	F
Di-n-Octylphthalate	ND	ND,6	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Fluoranthene	1420		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Fluorene	144J	J	ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	915	137	SW846 8270E	4	11/18/2024 17:53	S7M	F
Hexachloroethane	ND	ND	ug/kg	458	105	SW846 8270E	4	11/18/2024 17:53	S7M	F
Indeno(1,2,3-cd)pyrene	326		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Isophorone	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
mp-Cresol	ND	ND	ug/kg	915	156	SW846 8270E	4	11/18/2024 17:53	S7M	F
Naphthalene	405		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Nitrobenzene	ND	ND	ug/kg	458	156	SW846 8270E	4	11/18/2024 17:53	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	458	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
o-Cresol	ND	ND	ug/kg	915	156	SW846 8270E	4	11/18/2024 17:53	S7M	F
Pentachlorophenol	ND	ND	ug/kg	915	224	SW846 8270E	4	11/18/2024 17:53	S7M	F
Phenanthrene	1050		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F
Phenol	ND	ND	ug/kg	915	156	SW846 8270E	4	11/18/2024 17:53	S7M	F

Results

Client Sample ID	SB-212-11	Collected	11/13/2024 08:50
Lab Sample ID	3387696001	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	998		ug/kg	229	77.8	SW846 8270E	4	11/18/2024 17:53	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	81.1%	19 – 132	11/18/2024 17:53	
2-Fluorobiphenyl	321-60-8	72.5%	40 – 110	11/18/2024 17:53	
2-Fluorophenol	367-12-4	77%	26 – 116	11/18/2024 17:53	
Nitrobenzene-d5	4165-60-0	82.6%	38 – 112	11/18/2024 17:53	
Phenol-d5	4165-62-2	79%	35 – 111	11/18/2024 17:53	
Terphenyl-d14	98904-43-9	89.1%	45 – 126	11/18/2024 17:53	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	2.3	0.73	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	2.3	0.66	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/kg	2.3	0.66	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,1-Dichloroethane	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,1-Dichloroethene	ND	ND	ug/kg	2.3	0.61	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,2,3-Trichlorobenzene	ND	ND,3	ug/kg	5.9	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,2,4-Trichlorobenzene	ND	ND,4,5	ug/kg	5.9	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,2,4-Trimethylbenzene	0.72J	J	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	2.3	0.29	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,2-Dibromoethane	ND	ND	ug/kg	2.3	0.63	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,2-Dichlorobenzene	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,2-Dichloroethane	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,2-Dichloroethene, Total	ND	ND	ug/kg	4.7	0.78	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,2-Dichloropropane	ND	ND	ug/kg	2.3	0.70	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,3,5-Trimethylbenzene	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
1,4-Dichlorobenzene	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
2-Butanone	ND	ND	ug/kg	11.7	3.7	SW846 8260D	1	11/21/2024 06:03	PDK	B
2-Hexanone	ND	ND	ug/kg	11.7	3.3	SW846 8260D	1	11/21/2024 06:03	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	11.7	4.4	SW846 8260D	1	11/21/2024 06:03	PDK	B
Acetone	18.0		ug/kg	11.7	5.4	SW846 8260D	1	11/21/2024 06:03	PDK	B
Benzene	2.0J	J	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
Bromochloromethane	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
Bromodichloromethane	ND	ND	ug/kg	2.3	0.83	SW846 8260D	1	11/21/2024 06:03	PDK	B
Bromoform	ND	ND	ug/kg	2.3	0.61	SW846 8260D	1	11/21/2024 06:03	PDK	B
Bromomethane	ND	ND	ug/kg	2.3	0.61	SW846 8260D	1	11/21/2024 06:03	PDK	B
Carbon Disulfide	5.2		ug/kg	2.3	0.74	SW846 8260D	1	11/21/2024 06:03	PDK	B
Carbon Tetrachloride	ND	ND	ug/kg	2.3	0.60	SW846 8260D	1	11/21/2024 06:03	PDK	B
Chlorobenzene	ND	ND	ug/kg	2.3	0.60	SW846 8260D	1	11/21/2024 06:03	PDK	B
Chlorodibromomethane	ND	ND	ug/kg	2.3	0.80	SW846 8260D	1	11/21/2024 06:03	PDK	B
Chloroethane	ND	ND	ug/kg	5.9	1.0	SW846 8260D	1	11/21/2024 06:03	PDK	B

Results

Client Sample ID	SB-212-11	Collected	11/13/2024 08:50
Lab Sample ID	3387696001	Lab Receipt	11/14/2024 09:10

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	2.3	0.62	SW846 8260D	1	11/21/2024 06:03	PDK	B
Chloromethane	ND	ND	ug/kg	2.3	0.64	SW846 8260D	1	11/21/2024 06:03	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/kg	2.3	0.64	SW846 8260D	1	11/21/2024 06:03	PDK	B
Cyclohexane	3.0		ug/kg	2.3	0.60	SW846 8260D	1	11/21/2024 06:03	PDK	B
Dichlorodifluoromethane	ND	ND	ug/kg	2.3	0.78	SW846 8260D	1	11/21/2024 06:03	PDK	B
Ethylbenzene	ND	ND	ug/kg	2.3	0.80	SW846 8260D	1	11/21/2024 06:03	PDK	B
Freon 113	ND	ND,1	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
Isopropylbenzene	ND	ND	ug/kg	2.3	0.71	SW846 8260D	1	11/21/2024 06:03	PDK	B
Methyl acetate	ND	ND	ug/kg	2.3	0.69	SW846 8260D	1	11/21/2024 06:03	PDK	B
Methyl cyclohexane	4.3		ug/kg	2.3	0.66	SW846 8260D	1	11/21/2024 06:03	PDK	B
Methyl t-Butyl Ether	ND	ND,2	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
Methylene Chloride	1.8J	J	ug/kg	2.3	0.91	SW846 8260D	1	11/21/2024 06:03	PDK	B
mp-Xylene	ND	ND	ug/kg	4.7	0.97	SW846 8260D	1	11/21/2024 06:03	PDK	B
o-Xylene	1.3J	J	ug/kg	2.3	0.68	SW846 8260D	1	11/21/2024 06:03	PDK	B
Styrene	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
Tetrachloroethene	ND	ND	ug/kg	2.3	0.70	SW846 8260D	1	11/21/2024 06:03	PDK	B
Toluene	ND	ND	ug/kg	2.3	0.78	SW846 8260D	1	11/21/2024 06:03	PDK	B
Total Xylenes	ND	ND	ug/kg	7.0	1.6	SW846 8260D	1	11/21/2024 06:03	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/kg	2.3	0.61	SW846 8260D	1	11/21/2024 06:03	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/kg	2.3	0.68	SW846 8260D	1	11/21/2024 06:03	PDK	B
Trichloroethene	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
Trichlorofluoromethane	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B
Vinyl Chloride	ND	ND	ug/kg	2.3	0.59	SW846 8260D	1	11/21/2024 06:03	PDK	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.4%	56 – 124	11/21/2024 06:03	
4-Bromofluorobenzene	460-00-4	118%	51 – 128	11/21/2024 06:03	
Dibromofluoromethane	1868-53-7	99.6%	62 – 123	11/21/2024 06:03	
Toluene-d8	2037-26-5	105%	59 – 131	11/21/2024 06:03	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	17.6		%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A
Total Solids	82.4		%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A

Results

Client Sample ID	SB-214-9	Collected	11/13/2024 09:30
Lab Sample ID	3387696002	Lab Receipt	11/14/2024 09:10

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	7140	S1	mg/kg	26.4	8.8	SW846 6010C	2	11/27/2024 10:39	MSY	F
Antimony, Total	3.4J	J,S1	mg/kg	5.3	1.8	SW846 6010C	2	11/27/2024 10:39	MSY	F
Arsenic, Total	9.0	S1	mg/kg	5.3	1.8	SW846 6010C	2	11/27/2024 10:39	MSY	F
Barium, Total	88.6	S1	mg/kg	2.6	0.88	SW846 6010C	2	11/27/2024 10:39	MSY	F
Beryllium, Total	1.2J	J,S1	mg/kg	2.6	0.88	SW846 6010C	2	11/27/2024 10:39	MSY	F
Cadmium, Total	2.6	S1	mg/kg	1.3	0.44	SW846 6010C	2	11/27/2024 10:39	MSY	F
Calcium, Total	132000	S1	mg/kg	26.4	8.8	SW846 6010C	2	11/27/2024 10:39	MSY	F
Chromium, Total	22.2	S1	mg/kg	2.6	0.88	SW846 6010C	2	11/27/2024 10:39	MSY	F
Cobalt, Total	21.1	S1	mg/kg	2.6	0.88	SW846 6010C	2	12/05/2024 09:26	MSY	F
Copper, Total	40.0	S1	mg/kg	5.3	1.8	SW846 6010C	2	11/27/2024 10:39	MSY	F
Iron, Total	74200	S1	mg/kg	26.4	8.8	SW846 6010C	2	11/27/2024 10:39	MSY	F
Lead, Total	69.5	S1	mg/kg	5.3	1.8	SW846 6010C	2	11/27/2024 10:39	MSY	F
Magnesium, Total	19100	S1	mg/kg	26.4	8.8	SW846 6010C	2	11/27/2024 10:39	MSY	F
Manganese, Total	2350	S1	mg/kg	2.6	0.88	SW846 6010C	2	11/27/2024 10:39	MSY	F
Mercury, Total	0.030J	J,S1	mg/kg	0.061	0.020	SW846 7471B	1	11/26/2024 10:01	JMS	F
Nickel, Total	13.8	S1	mg/kg	5.3	1.8	SW846 6010C	2	11/27/2024 10:39	MSY	F
Potassium, Total	1630	S1	mg/kg	132	44.1	SW846 6010C	2	11/27/2024 10:39	MSY	F
Selenium, Total	6.2J	J,S1	mg/kg	13.2	4.4	SW846 6010C	2	11/27/2024 10:39	MSY	F
Silver, Total	ND	ND,S1	mg/kg	1.3	0.44	SW846 6010C	2	11/27/2024 10:39	MSY	F
Sodium, Total	465	S1	mg/kg	132	44.1	SW846 6010C	2	11/27/2024 10:39	MSY	F
Thallium, Total	5.2J	J,S1	mg/kg	7.9	2.6	SW846 6010C	2	11/27/2024 10:39	MSY	F
Vanadium, Total	28.2	S1	mg/kg	2.6	0.88	SW846 6010C	2	11/27/2024 10:39	MSY	F
Zinc, Total	289	S1	mg/kg	5.3	1.8	SW846 6010C	2	11/27/2024 10:39	MSY	F

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
1,4-Dioxane	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND,S1	ug/kg	1110	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
2,4,5-Trichlorophenol	ND	ND,S1	ug/kg	1110	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
2,4,6-Trichlorophenol	ND	ND,S1	ug/kg	1110	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
2,4-Dichlorophenol	ND	ND,S1	ug/kg	1110	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
2,4-Dimethylphenol	ND	ND,S1	ug/kg	1110	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
2,4-Dinitrophenol	ND	ND,S1	ug/kg	2220	1100	SW846 8270E	4	11/19/2024 23:32	S7M	F
2,4-Dinitrotoluene	ND	ND,S1	ug/kg	556	111	SW846 8270E	4	11/19/2024 23:32	S7M	F
2,6-Dinitrotoluene	ND	ND,S1	ug/kg	556	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
2-Chloronaphthalene	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
2-Chlorophenol	ND	ND,S1	ug/kg	1110	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,S1	ug/kg	1110	278	SW846 8270E	4	11/19/2024 23:32	S7M	F
2-Methylnaphthalene	305J	J,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
2-Nitroaniline	ND	ND,S1	ug/kg	1110	128	SW846 8270E	4	11/19/2024 23:32	S7M	F
2-Nitrophenol	ND	ND,S1	ug/kg	1110	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
3,3-Dichlorobenzidine	ND	ND,S1	ug/kg	1110	172	SW846 8270E	4	11/19/2024 23:32	S7M	F
3-Nitroaniline	ND	ND,S1	ug/kg	1110	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
4-Bromophenyl-phenylether	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
4-Chloro-3-methylphenol	ND	ND,S1	ug/kg	1110	189	SW846 8270E	4	11/19/2024 23:32	S7M	F

Results

Client Sample ID	SB-214-9	Collected	11/13/2024 09:30
Lab Sample ID	3387696002	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND,S1	ug/kg	1110	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
4-Chlorophenyl-phenylether	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
4-Nitroaniline	ND	ND,S1	ug/kg	1110	161	SW846 8270E	4	11/19/2024 23:32	S7M	F
4-Nitrophenol	ND	ND,11,S1	ug/kg	1110	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
Acenaphthene	ND	ND,S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Acenaphthylene	351	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Acetophenone	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Anthracene	527	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Atrazine	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Benzaldehyde	ND	ND,S1	ug/kg	1110	111	SW846 8270E	4	11/19/2024 23:32	S7M	F
Benzo(a)anthracene	1190	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Benzo(a)pyrene	1260	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Benzo(b)fluoranthene	1060	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Benzo(g,h,i)perylene	633	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Benzo(k)fluoranthene	1100	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Biphenyl	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
bis(2-Chloroethoxy)methane	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
bis(2-Chloroethyl)ether	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND,S1	ug/kg	556	122	SW846 8270E	4	11/19/2024 23:32	S7M	F
Butylbenzylphthalate	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Caprolactam	ND	ND,S1	ug/kg	1110	217	SW846 8270E	4	11/19/2024 23:32	S7M	F
Carbazole	101J	J,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Chrysene	1330	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Dibenzo(a,h)anthracene	ND	ND,S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Dibenzofuran	145J	J,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Diethylphthalate	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Dimethylphthalate	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Di-n-Butylphthalate	ND	ND,S1	ug/kg	556	195	SW846 8270E	4	11/19/2024 23:32	S7M	F
Di-n-Octylphthalate	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Fluoranthene	3130	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Fluorene	173J	J,S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Hexachlorobenzene	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Hexachlorobutadiene	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Hexachlorocyclopentadiene	ND	ND,S1	ug/kg	1110	167	SW846 8270E	4	11/19/2024 23:32	S7M	F
Hexachloroethane	ND	ND,S1	ug/kg	556	128	SW846 8270E	4	11/19/2024 23:32	S7M	F
Indeno(1,2,3-cd)pyrene	637	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Isophorone	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
mp-Cresol	ND	ND,10,S1	ug/kg	1110	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
Naphthalene	418	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
Nitrobenzene	ND	ND,S1	ug/kg	556	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
N-Nitroso-di-n-propylamine	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
N-Nitrosodiphenylamine	ND	ND,S1	ug/kg	556	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F
o-Cresol	ND	ND,S1	ug/kg	1110	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
Pentachlorophenol	ND	ND,S1	ug/kg	1110	272	SW846 8270E	4	11/19/2024 23:32	S7M	F
Phenanthrene	1520	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F

Results

Client Sample ID	SB-214-9	Collected	11/13/2024 09:30
Lab Sample ID	3387696002	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Phenol	ND	ND,S1	ug/kg	1110	189	SW846 8270E	4	11/19/2024 23:32	S7M	F
Pyrene	1980	S1	ug/kg	278	94.5	SW846 8270E	4	11/19/2024 23:32	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	78.3%	19 – 132	11/19/2024 23:32	
2-Fluorobiphenyl	321-60-8	74%	40 – 110	11/19/2024 23:32	
2-Fluorophenol	367-12-4	62.7%	26 – 116	11/19/2024 23:32	
Nitrobenzene-d5	4165-60-0	74.5%	38 – 112	11/19/2024 23:32	
Phenol-d5	4165-62-2	66.4%	35 – 111	11/19/2024 23:32	
Terphenyl-d14	98904-43-9	82.3%	45 – 126	11/19/2024 23:32	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,S1	ug/kg	2.9	0.89	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND,S1	ug/kg	2.9	0.80	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,1,2-Trichloroethane	ND	ND,S1	ug/kg	2.9	0.80	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,1-Dichloroethane	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,1-Dichloroethene	ND	ND,S1	ug/kg	2.9	0.75	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,2,3-Trichlorobenzene	ND	ND,3,S1	ug/kg	7.2	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,2,3-Trichloropropane	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,2,4-Trichlorobenzene	ND	ND,4,5, S1	ug/kg	7.2	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,2,4-Trimethylbenzene	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND,S1	ug/kg	2.9	0.36	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,2-Dibromoethane	ND	ND,S1	ug/kg	2.9	0.78	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,2-Dichlorobenzene	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,2-Dichloroethane	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,2-Dichloroethene, Total	ND	ND,S1	ug/kg	5.7	0.96	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,2-Dichloropropane	ND	ND,S1	ug/kg	2.9	0.86	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,3,5-Trimethylbenzene	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,3-Dichlorobenzene	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
1,4-Dichlorobenzene	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
2-Butanone	21.2	S1	ug/kg	14.4	4.6	SW846 8260D	1	11/21/2024 06:28	PDK	B
2-Hexanone	ND	ND,S1	ug/kg	14.4	4.0	SW846 8260D	1	11/21/2024 06:28	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND,S1	ug/kg	14.4	5.5	SW846 8260D	1	11/21/2024 06:28	PDK	B
Acetone	121	S1	ug/kg	14.4	6.6	SW846 8260D	1	11/21/2024 06:28	PDK	B
Benzene	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
Bromochloromethane	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
Bromodichloromethane	ND	ND,S1	ug/kg	2.9	1.0	SW846 8260D	1	11/21/2024 06:28	PDK	B
Bromoform	ND	ND,S1	ug/kg	2.9	0.75	SW846 8260D	1	11/21/2024 06:28	PDK	B
Bromomethane	ND	ND,S1	ug/kg	2.9	0.75	SW846 8260D	1	11/21/2024 06:28	PDK	B
Carbon Disulfide	1.2J	J,S1	ug/kg	2.9	0.91	SW846 8260D	1	11/21/2024 06:28	PDK	B
Carbon Tetrachloride	ND	ND,S1	ug/kg	2.9	0.73	SW846 8260D	1	11/21/2024 06:28	PDK	B
Chlorobenzene	ND	ND,S1	ug/kg	2.9	0.73	SW846 8260D	1	11/21/2024 06:28	PDK	B

Results

Client Sample ID	SB-214-9	Collected	11/13/2024 09:30
Lab Sample ID	3387696002	Lab Receipt	11/14/2024 09:10

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chlorodibromomethane	ND	ND,S1	ug/kg	2.9	0.98	SW846 8260D	1	11/21/2024 06:28	PDK	B
Chloroethane	ND	ND,S1	ug/kg	7.2	1.2	SW846 8260D	1	11/21/2024 06:28	PDK	B
Chloroform	ND	ND,S1	ug/kg	2.9	0.76	SW846 8260D	1	11/21/2024 06:28	PDK	B
Chloromethane	ND	ND,S1	ug/kg	2.9	0.79	SW846 8260D	1	11/21/2024 06:28	PDK	B
cis-1,2-Dichloroethene	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
cis-1,3-Dichloropropene	ND	ND,S1	ug/kg	2.9	0.79	SW846 8260D	1	11/21/2024 06:28	PDK	B
Cyclohexane	ND	ND,S1	ug/kg	2.9	0.73	SW846 8260D	1	11/21/2024 06:28	PDK	B
Dichlorodifluoromethane	ND	ND,S1	ug/kg	2.9	0.96	SW846 8260D	1	11/21/2024 06:28	PDK	B
Ethylbenzene	ND	ND,S1	ug/kg	2.9	0.98	SW846 8260D	1	11/21/2024 06:28	PDK	B
Freon 113	ND	ND,1,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
Isopropylbenzene	ND	ND,S1	ug/kg	2.9	0.88	SW846 8260D	1	11/21/2024 06:28	PDK	B
Methyl acetate	ND	ND,S1	ug/kg	2.9	0.85	SW846 8260D	1	11/21/2024 06:28	PDK	B
Methyl cyclohexane	ND	ND,S1	ug/kg	2.9	0.80	SW846 8260D	1	11/21/2024 06:28	PDK	B
Methyl t-Butyl Ether	ND	ND,2,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
Methylene Chloride	1.8J	J,S1	ug/kg	2.9	1.1	SW846 8260D	1	11/21/2024 06:28	PDK	B
mp-Xylene	ND	ND,S1	ug/kg	5.7	1.2	SW846 8260D	1	11/21/2024 06:28	PDK	B
o-Xylene	ND	ND,S1	ug/kg	2.9	0.83	SW846 8260D	1	11/21/2024 06:28	PDK	B
Styrene	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
Tetrachloroethene	ND	ND,S1	ug/kg	2.9	0.86	SW846 8260D	1	11/21/2024 06:28	PDK	B
Toluene	ND	ND,S1	ug/kg	2.9	0.96	SW846 8260D	1	11/21/2024 06:28	PDK	B
Total Xylenes	ND	ND,S1	ug/kg	8.6	2.0	SW846 8260D	1	11/21/2024 06:28	PDK	B
trans-1,2-Dichloroethene	ND	ND,S1	ug/kg	2.9	0.75	SW846 8260D	1	11/21/2024 06:28	PDK	B
trans-1,3-Dichloropropene	ND	ND,S1	ug/kg	2.9	0.83	SW846 8260D	1	11/21/2024 06:28	PDK	B
Trichloroethene	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
Trichlorofluoromethane	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B
Vinyl Chloride	ND	ND,S1	ug/kg	2.9	0.72	SW846 8260D	1	11/21/2024 06:28	PDK	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	56 – 124	11/21/2024 06:28	
4-Bromofluorobenzene	460-00-4	109%	51 – 128	11/21/2024 06:28	
Dibromofluoromethane	1868-53-7	99.7%	62 – 123	11/21/2024 06:28	
Toluene-d8	2037-26-5	104%	59 – 131	11/21/2024 06:28	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	30.8	S1	%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A
Total Solids	69.2	S1	%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A

Results

Client Sample ID	SB-215-7	Collected	11/13/2024 10:15
Lab Sample ID	3387696003	Lab Receipt	11/14/2024 09:10

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	7800		mg/kg	22.9	7.6	SW846 6010C	2	11/27/2024 10:40	MSY	F
Antimony, Total	3.3J	J	mg/kg	4.6	1.5	SW846 6010C	2	11/27/2024 10:40	MSY	F
Arsenic, Total	11.5		mg/kg	4.6	1.5	SW846 6010C	2	11/27/2024 10:40	MSY	F
Barium, Total	137		mg/kg	2.3	0.76	SW846 6010C	2	11/27/2024 10:40	MSY	F
Beryllium, Total	1.4J	J	mg/kg	2.3	0.76	SW846 6010C	2	11/27/2024 10:40	MSY	F
Cadmium, Total	3.1		mg/kg	1.1	0.38	SW846 6010C	2	11/27/2024 10:40	MSY	F
Calcium, Total	129000		mg/kg	22.9	7.6	SW846 6010C	2	11/27/2024 10:40	MSY	F
Chromium, Total	24.2		mg/kg	2.3	0.76	SW846 6010C	2	11/27/2024 10:40	MSY	F
Cobalt, Total	23.4		mg/kg	2.3	0.76	SW846 6010C	2	11/27/2024 10:40	MSY	F
Copper, Total	57.7		mg/kg	4.6	1.5	SW846 6010C	2	11/27/2024 10:40	MSY	F
Iron, Total	87100		mg/kg	22.9	7.6	SW846 6010C	2	11/27/2024 10:40	MSY	F
Lead, Total	51.9		mg/kg	4.6	1.5	SW846 6010C	2	11/27/2024 10:40	MSY	F
Magnesium, Total	15000		mg/kg	22.9	7.6	SW846 6010C	2	11/27/2024 10:40	MSY	F
Manganese, Total	4300		mg/kg	2.3	0.76	SW846 6010C	2	11/27/2024 10:40	MSY	F
Mercury, Total	0.12		mg/kg	0.059	0.019	SW846 7471B	1	11/26/2024 10:24	JMS	F
Nickel, Total	15.2		mg/kg	4.6	1.5	SW846 6010C	2	11/27/2024 10:40	MSY	F
Potassium, Total	1280		mg/kg	115	38.3	SW846 6010C	2	11/27/2024 10:40	MSY	F
Selenium, Total	6.6J	J	mg/kg	11.5	3.8	SW846 6010C	2	11/27/2024 10:40	MSY	F
Silver, Total	ND	ND	mg/kg	1.1	0.38	SW846 6010C	2	11/27/2024 10:40	MSY	F
Sodium, Total	381		mg/kg	115	38.3	SW846 6010C	2	11/27/2024 10:40	MSY	F
Thallium, Total	4.1J	J	mg/kg	6.9	2.3	SW846 6010C	2	11/27/2024 10:40	MSY	F
Vanadium, Total	32.0		mg/kg	2.3	0.76	SW846 6010C	2	11/27/2024 10:40	MSY	F
Zinc, Total	361		mg/kg	4.6	1.5	SW846 6010C	2	11/27/2024 10:40	MSY	F

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
1,4-Dioxane	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	833	142	SW846 8270E	4	11/19/2024 23:59	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	833	142	SW846 8270E	4	11/19/2024 23:59	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	833	142	SW846 8270E	4	11/19/2024 23:59	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	833	142	SW846 8270E	4	11/19/2024 23:59	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	833	142	SW846 8270E	4	11/19/2024 23:59	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	1670	825	SW846 8270E	4	11/19/2024 23:59	S7M	F
2,4-Dinitrotoluene	ND	ND	ug/kg	417	83.3	SW846 8270E	4	11/19/2024 23:59	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	417	142	SW846 8270E	4	11/19/2024 23:59	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
2-Chlorophenol	ND	ND	ug/kg	833	142	SW846 8270E	4	11/19/2024 23:59	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	833	208	SW846 8270E	4	11/19/2024 23:59	S7M	F
2-Methylnaphthalene	83.8J	J	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
2-Nitroaniline	ND	ND	ug/kg	833	95.9	SW846 8270E	4	11/19/2024 23:59	S7M	F
2-Nitrophenol	ND	ND	ug/kg	833	142	SW846 8270E	4	11/19/2024 23:59	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	833	129	SW846 8270E	4	11/19/2024 23:59	S7M	F
3-Nitroaniline	ND	ND	ug/kg	833	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	833	142	SW846 8270E	4	11/19/2024 23:59	S7M	F

Results

Client Sample ID	SB-215-7	Collected	11/13/2024 10:15
Lab Sample ID	3387696003	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	833	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
4-Nitroaniline	ND	ND	ug/kg	833	121	SW846 8270E	4	11/19/2024 23:59	S7M	F
4-Nitrophenol	ND	ND,11	ug/kg	833	142	SW846 8270E	4	11/19/2024 23:59	S7M	F
Acenaphthene	ND	ND	ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Acenaphthylene	436		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Acetophenone	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Anthracene	357		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Atrazine	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Benzaldehyde	ND	ND	ug/kg	833	83.3	SW846 8270E	4	11/19/2024 23:59	S7M	F
Benzo(a)anthracene	1340		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Benzo(a)pyrene	1680		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Benzo(b)fluoranthene	1500		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Benzo(g,h,i)perylene	973		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Benzo(k)fluoranthene	1520		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Biphenyl	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	417	91.7	SW846 8270E	4	11/19/2024 23:59	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Caprolactam	ND	ND	ug/kg	833	163	SW846 8270E	4	11/19/2024 23:59	S7M	F
Carbazole	101J	J	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Chrysene	1450		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Dibenzo(a,h)anthracene	277		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Dibenzofuran	93.7J	J	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Diethylphthalate	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Dimethylphthalate	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	417	146	SW846 8270E	4	11/19/2024 23:59	S7M	F
Di-n-Octylphthalate	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Fluoranthene	2280		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Fluorene	92.6J	J	ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	833	125	SW846 8270E	4	11/19/2024 23:59	S7M	F
Hexachloroethane	ND	ND	ug/kg	417	95.9	SW846 8270E	4	11/19/2024 23:59	S7M	F
Indeno(1,2,3-cd)pyrene	1040		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Isophorone	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
mp-Cresol	ND	ND,10	ug/kg	833	142	SW846 8270E	4	11/19/2024 23:59	S7M	F
Naphthalene	392		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Nitrobenzene	ND	ND	ug/kg	417	142	SW846 8270E	4	11/19/2024 23:59	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	417	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
o-Cresol	ND	ND	ug/kg	833	142	SW846 8270E	4	11/19/2024 23:59	S7M	F
Pentachlorophenol	ND	ND	ug/kg	833	204	SW846 8270E	4	11/19/2024 23:59	S7M	F
Phenanthrene	957		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F
Phenol	ND	ND	ug/kg	833	142	SW846 8270E	4	11/19/2024 23:59	S7M	F

Results

Client Sample ID	SB-215-7	Collected	11/13/2024 10:15
Lab Sample ID	3387696003	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	1420		ug/kg	208	70.8	SW846 8270E	4	11/19/2024 23:59	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	65.6%	19 – 132	11/19/2024 23:59	
2-Fluorobiphenyl	321-60-8	79.1%	40 – 110	11/19/2024 23:59	
2-Fluorophenol	367-12-4	50.1%	26 – 116	11/19/2024 23:59	
Nitrobenzene-d5	4165-60-0	69.4%	38 – 112	11/19/2024 23:59	
Phenol-d5	4165-62-2	57.8%	35 – 111	11/19/2024 23:59	
Terphenyl-d14	98904-43-9	81.5%	45 – 126	11/19/2024 23:59	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	2.2	0.69	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	2.2	0.62	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/kg	2.2	0.62	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,1-Dichloroethane	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,1-Dichloroethene	ND	ND	ug/kg	2.2	0.58	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,2,3-Trichlorobenzene	ND	ND,3	ug/kg	5.5	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,2,4-Trichlorobenzene	ND	ND,4,5	ug/kg	5.5	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,2,4-Trimethylbenzene	0.67J	J	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	2.2	0.28	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,2-Dibromoethane	ND	ND	ug/kg	2.2	0.60	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,2-Dichlorobenzene	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,2-Dichloroethane	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,2-Dichloroethene, Total	ND	ND	ug/kg	4.4	0.74	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,2-Dichloropropane	ND	ND	ug/kg	2.2	0.66	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,3,5-Trimethylbenzene	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
1,4-Dichlorobenzene	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
2-Butanone	ND	ND	ug/kg	11.1	3.5	SW846 8260D	1	11/21/2024 06:54	PDK	B
2-Hexanone	ND	ND	ug/kg	11.1	3.1	SW846 8260D	1	11/21/2024 06:54	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	11.1	4.2	SW846 8260D	1	11/21/2024 06:54	PDK	B
Acetone	ND	ND	ug/kg	11.1	5.1	SW846 8260D	1	11/21/2024 06:54	PDK	B
Benzene	1.5J	J	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
Bromochloromethane	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
Bromodichloromethane	ND	ND	ug/kg	2.2	0.79	SW846 8260D	1	11/21/2024 06:54	PDK	B
Bromoform	ND	ND	ug/kg	2.2	0.58	SW846 8260D	1	11/21/2024 06:54	PDK	B
Bromomethane	ND	ND	ug/kg	2.2	0.58	SW846 8260D	1	11/21/2024 06:54	PDK	B
Carbon Disulfide	ND	ND	ug/kg	2.2	0.70	SW846 8260D	1	11/21/2024 06:54	PDK	B
Carbon Tetrachloride	ND	ND	ug/kg	2.2	0.57	SW846 8260D	1	11/21/2024 06:54	PDK	B
Chlorobenzene	ND	ND	ug/kg	2.2	0.57	SW846 8260D	1	11/21/2024 06:54	PDK	B
Chlorodibromomethane	ND	ND	ug/kg	2.2	0.75	SW846 8260D	1	11/21/2024 06:54	PDK	B
Chloroethane	ND	ND	ug/kg	5.5	0.94	SW846 8260D	1	11/21/2024 06:54	PDK	B

Results

Client Sample ID	SB-215-7	Collected	11/13/2024 10:15
Lab Sample ID	3387696003	Lab Receipt	11/14/2024 09:10

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	2.2	0.59	SW846 8260D	1	11/21/2024 06:54	PDK	B
Chloromethane	ND	ND	ug/kg	2.2	0.61	SW846 8260D	1	11/21/2024 06:54	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/kg	2.2	0.61	SW846 8260D	1	11/21/2024 06:54	PDK	B
Cyclohexane	ND	ND	ug/kg	2.2	0.57	SW846 8260D	1	11/21/2024 06:54	PDK	B
Dichlorodifluoromethane	ND	ND	ug/kg	2.2	0.74	SW846 8260D	1	11/21/2024 06:54	PDK	B
Ethylbenzene	ND	ND	ug/kg	2.2	0.75	SW846 8260D	1	11/21/2024 06:54	PDK	B
Freon 113	ND	ND,1	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
Isopropylbenzene	ND	ND	ug/kg	2.2	0.68	SW846 8260D	1	11/21/2024 06:54	PDK	B
Methyl acetate	ND	ND	ug/kg	2.2	0.65	SW846 8260D	1	11/21/2024 06:54	PDK	B
Methyl cyclohexane	1.2J	J	ug/kg	2.2	0.62	SW846 8260D	1	11/21/2024 06:54	PDK	B
Methyl t-Butyl Ether	ND	ND,2	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
Methylene Chloride	3.4		ug/kg	2.2	0.86	SW846 8260D	1	11/21/2024 06:54	PDK	B
mp-Xylene	ND	ND	ug/kg	4.4	0.92	SW846 8260D	1	11/21/2024 06:54	PDK	B
o-Xylene	1.2J	J	ug/kg	2.2	0.64	SW846 8260D	1	11/21/2024 06:54	PDK	B
Styrene	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
Tetrachloroethene	ND	ND	ug/kg	2.2	0.66	SW846 8260D	1	11/21/2024 06:54	PDK	B
Toluene	ND	ND	ug/kg	2.2	0.74	SW846 8260D	1	11/21/2024 06:54	PDK	B
Total Xylenes	ND	ND	ug/kg	6.6	1.6	SW846 8260D	1	11/21/2024 06:54	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/kg	2.2	0.58	SW846 8260D	1	11/21/2024 06:54	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/kg	2.2	0.64	SW846 8260D	1	11/21/2024 06:54	PDK	B
Trichloroethene	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
Trichlorofluoromethane	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B
Vinyl Chloride	ND	ND	ug/kg	2.2	0.55	SW846 8260D	1	11/21/2024 06:54	PDK	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.3%	56 – 124	11/21/2024 06:54	
4-Bromofluorobenzene	460-00-4	110%	51 – 128	11/21/2024 06:54	
Dibromofluoromethane	1868-53-7	99.4%	62 – 123	11/21/2024 06:54	
Toluene-d8	2037-26-5	102%	59 – 131	11/21/2024 06:54	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	15.8		%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A
Total Solids	84.2		%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A

Results

Client Sample ID	SB-200-10	Collected	11/13/2024 11:45
Lab Sample ID	3387696004	Lab Receipt	11/14/2024 09:10

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	7050	S2	mg/kg	22.0	7.3	SW846 6010C	2	11/27/2024 10:43	MSY	F
Antimony, Total	ND	ND,S2	mg/kg	4.4	1.5	SW846 6010C	2	11/27/2024 10:43	MSY	F
Arsenic, Total	16.3	S2	mg/kg	4.4	1.5	SW846 6010C	2	11/27/2024 10:43	MSY	F
Barium, Total	51.1	S2	mg/kg	2.2	0.73	SW846 6010C	2	11/27/2024 10:43	MSY	F
Beryllium, Total	ND	ND,S2	mg/kg	2.2	0.73	SW846 6010C	2	11/27/2024 10:43	MSY	F
Cadmium, Total	1.0J	J,S2	mg/kg	1.1	0.37	SW846 6010C	2	11/27/2024 10:43	MSY	F
Calcium, Total	16400	S2	mg/kg	22.0	7.3	SW846 6010C	2	11/27/2024 10:43	MSY	F
Chromium, Total	13.3	S2	mg/kg	2.2	0.73	SW846 6010C	2	11/27/2024 10:43	MSY	F
Cobalt, Total	12.0	S2	mg/kg	2.2	0.73	SW846 6010C	2	11/27/2024 10:43	MSY	F
Copper, Total	39.6	S2	mg/kg	4.4	1.5	SW846 6010C	2	11/27/2024 10:43	MSY	F
Iron, Total	21900	S2	mg/kg	22.0	7.3	SW846 6010C	2	11/27/2024 10:43	MSY	F
Lead, Total	49.6	S2	mg/kg	4.4	1.5	SW846 6010C	2	11/27/2024 10:43	MSY	F
Magnesium, Total	5820	S2	mg/kg	22.0	7.3	SW846 6010C	2	11/27/2024 10:43	MSY	F
Manganese, Total	405	S2	mg/kg	2.2	0.73	SW846 6010C	2	11/27/2024 10:43	MSY	F
Mercury, Total	0.071	S2	mg/kg	0.050	0.016	SW846 7471B	1	11/26/2024 10:10	JMS	F
Nickel, Total	21.8	S2	mg/kg	4.4	1.5	SW846 6010C	2	11/27/2024 10:43	MSY	F
Potassium, Total	783	S2	mg/kg	110	36.7	SW846 6010C	2	11/27/2024 10:43	MSY	F
Selenium, Total	5.1J	J,S2	mg/kg	11.0	3.7	SW846 6010C	2	11/27/2024 10:43	MSY	F
Silver, Total	ND	ND,S2	mg/kg	1.1	0.37	SW846 6010C	2	11/27/2024 10:43	MSY	F
Sodium, Total	123	S2	mg/kg	110	36.7	SW846 6010C	2	11/27/2024 10:43	MSY	F
Thallium, Total	2.5J	J,S2	mg/kg	6.6	2.2	SW846 6010C	2	11/27/2024 10:43	MSY	F
Vanadium, Total	17.4	S2	mg/kg	2.2	0.73	SW846 6010C	2	11/27/2024 10:43	MSY	F
Zinc, Total	113	S2	mg/kg	4.4	1.5	SW846 6010C	2	11/27/2024 10:43	MSY	F

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
1,4-Dioxane	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND,S2	ug/kg	816	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
2,4,5-Trichlorophenol	ND	ND,S2	ug/kg	816	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
2,4,6-Trichlorophenol	ND	ND,S2	ug/kg	816	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
2,4-Dichlorophenol	ND	ND,S2	ug/kg	816	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
2,4-Dimethylphenol	ND	ND,S2	ug/kg	816	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
2,4-Dinitrophenol	ND	ND,S2	ug/kg	1630	808	SW846 8270E	4	11/20/2024 00:25	S7M	F
2,4-Dinitrotoluene	ND	ND,S2	ug/kg	408	81.6	SW846 8270E	4	11/20/2024 00:25	S7M	F
2,6-Dinitrotoluene	ND	ND,S2	ug/kg	408	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
2-Chloronaphthalene	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
2-Chlorophenol	ND	ND,S2	ug/kg	816	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,S2	ug/kg	816	204	SW846 8270E	4	11/20/2024 00:25	S7M	F
2-Methylnaphthalene	385J	J,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
2-Nitroaniline	ND	ND,S2	ug/kg	816	93.8	SW846 8270E	4	11/20/2024 00:25	S7M	F
2-Nitrophenol	ND	ND,S2	ug/kg	816	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
3,3-Dichlorobenzidine	ND	ND,S2	ug/kg	816	126	SW846 8270E	4	11/20/2024 00:25	S7M	F
3-Nitroaniline	ND	ND,S2	ug/kg	816	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
4-Bromophenyl-phenylether	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
4-Chloro-3-methylphenol	ND	ND,S2	ug/kg	816	139	SW846 8270E	4	11/20/2024 00:25	S7M	F

Results

Client Sample ID	SB-200-10	Collected	11/13/2024 11:45
Lab Sample ID	3387696004	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND,S2	ug/kg	816	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
4-Chlorophenyl-phenylether	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
4-Nitroaniline	ND	ND,S2	ug/kg	816	118	SW846 8270E	4	11/20/2024 00:25	S7M	F
4-Nitrophenol	ND	ND,11,S2	ug/kg	816	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
Acenaphthene	156J	J,S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Acenaphthylene	136J	J,S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Acetophenone	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Anthracene	510	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Atrazine	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Benzaldehyde	ND	ND,S2	ug/kg	816	81.6	SW846 8270E	4	11/20/2024 00:25	S7M	F
Benzo(a)anthracene	870	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Benzo(a)pyrene	905	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Benzo(b)fluoranthene	906	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Benzo(g,h,i)perylene	498	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Benzo(k)fluoranthene	788	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Biphenyl	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
bis(2-Chloroethoxy)methane	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
bis(2-Chloroethyl)ether	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND,S2	ug/kg	408	89.8	SW846 8270E	4	11/20/2024 00:25	S7M	F
Butylbenzylphthalate	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Caprolactam	ND	ND,S2	ug/kg	816	159	SW846 8270E	4	11/20/2024 00:25	S7M	F
Carbazole	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Chrysene	1020	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Dibenzo(a,h)anthracene	ND	ND,S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Dibenzofuran	207J	J,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Diethylphthalate	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Dimethylphthalate	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Di-n-Butylphthalate	ND	ND,S2	ug/kg	408	143	SW846 8270E	4	11/20/2024 00:25	S7M	F
Di-n-Octylphthalate	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Fluoranthene	2420	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Fluorene	247	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Hexachlorobenzene	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Hexachlorobutadiene	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Hexachlorocyclopentadiene	ND	ND,S2	ug/kg	816	122	SW846 8270E	4	11/20/2024 00:25	S7M	F
Hexachloroethane	ND	ND,S2	ug/kg	408	93.8	SW846 8270E	4	11/20/2024 00:25	S7M	F
Indeno(1,2,3-cd)pyrene	464	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Isophorone	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
mp-Cresol	ND	ND,10,S2	ug/kg	816	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
Naphthalene	325	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
Nitrobenzene	ND	ND,S2	ug/kg	408	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
N-Nitroso-di-n-propylamine	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
N-Nitrosodiphenylamine	ND	ND,S2	ug/kg	408	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F
o-Cresol	ND	ND,S2	ug/kg	816	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
Pentachlorophenol	ND	ND,S2	ug/kg	816	200	SW846 8270E	4	11/20/2024 00:25	S7M	F
Phenanthrene	1460	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F

Results

Client Sample ID	SB-200-10	Collected	11/13/2024 11:45
Lab Sample ID	3387696004	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Phenol	ND	ND,S2	ug/kg	816	139	SW846 8270E	4	11/20/2024 00:25	S7M	F
Pyrene	1540	S2	ug/kg	204	69.4	SW846 8270E	4	11/20/2024 00:25	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	73.7%	19 – 132	11/20/2024 00:25	
2-Fluorobiphenyl	321-60-8	84.9%	40 – 110	11/20/2024 00:25	
2-Fluorophenol	367-12-4	69.4%	26 – 116	11/20/2024 00:25	
Nitrobenzene-d5	4165-60-0	86%	38 – 112	11/20/2024 00:25	
Phenol-d5	4165-62-2	72.2%	35 – 111	11/20/2024 00:25	
Terphenyl-d14	98904-43-9	88%	45 – 126	11/20/2024 00:25	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,S2	ug/kg	43.2	9.5	SW846 8260D	50	11/16/2024 00:22	BST	A
1,1,2,2-Tetrachloroethane	ND	ND,S2	ug/kg	43.2	14.7	SW846 8260D	50	11/16/2024 00:22	BST	A
1,1,2-Trichloroethane	ND	ND,S2	ug/kg	43.2	14.2	SW846 8260D	50	11/16/2024 00:22	BST	A
1,1-Dichloroethane	ND	ND,S2	ug/kg	43.2	12.1	SW846 8260D	50	11/16/2024 00:22	BST	A
1,1-Dichloroethene	ND	ND,S2	ug/kg	43.2	12.5	SW846 8260D	50	11/16/2024 00:22	BST	A
1,2,3-Trichlorobenzene	ND	ND,S2	ug/kg	86.3	40.1	SW846 8260D	50	11/16/2024 00:22	BST	A
1,2,3-Trichloropropane	ND	ND,S2	ug/kg	86.3	25.9	SW846 8260D	50	11/16/2024 00:22	BST	A
1,2,4-Trichlorobenzene	ND	ND,S2	ug/kg	86.3	35.4	SW846 8260D	50	11/16/2024 00:22	BST	A
1,2,4-Trimethylbenzene	37.0J	J,S2	ug/kg	43.2	10.8	SW846 8260D	50	11/16/2024 00:22	BST	A
1,2-Dibromo-3-chloropropane	ND	ND,S2	ug/kg	302	64.7	SW846 8260D	50	11/16/2024 00:22	BST	A
1,2-Dibromoethane	ND	ND,S2	ug/kg	43.2	12.1	SW846 8260D	50	11/16/2024 00:22	BST	A
1,2-Dichlorobenzene	ND	ND,S2	ug/kg	43.2	16.4	SW846 8260D	50	11/16/2024 00:22	BST	A
1,2-Dichloroethane	ND	ND,S2	ug/kg	43.2	13.8	SW846 8260D	50	11/16/2024 00:22	BST	A
1,2-Dichloroethene, Total	ND	ND,S2	ug/kg	86.3	19.4	SW846 8260D	50	11/16/2024 00:22	BST	A
1,2-Dichloropropane	ND	ND,S2	ug/kg	43.2	10.4	SW846 8260D	50	11/16/2024 00:22	BST	A
1,3,5-Trimethylbenzene	11.3J	J,S2	ug/kg	43.2	8.6	SW846 8260D	50	11/16/2024 00:22	BST	A
1,3-Dichlorobenzene	ND	ND,S2	ug/kg	43.2	10.8	SW846 8260D	50	11/16/2024 00:22	BST	A
1,4-Dichlorobenzene	ND	ND,S2	ug/kg	43.2	11.7	SW846 8260D	50	11/16/2024 00:22	BST	A
2-Butanone	ND	ND,S2	ug/kg	432	77.7	SW846 8260D	50	11/16/2024 00:22	BST	A
2-Hexanone	ND	ND,S2	ug/kg	216	56.1	SW846 8260D	50	11/16/2024 00:22	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,S2	ug/kg	216	64.7	SW846 8260D	50	11/16/2024 00:22	BST	A
Acetone	ND	ND,S2	ug/kg	432	134	SW846 8260D	50	11/16/2024 00:22	BST	A
Benzene	ND	ND,S2	ug/kg	43.2	9.9	SW846 8260D	50	11/16/2024 00:22	BST	A
Bromochloromethane	ND	ND,S2	ug/kg	43.2	13.8	SW846 8260D	50	11/16/2024 00:22	BST	A
Bromodichloromethane	ND	ND,S2	ug/kg	43.2	11.7	SW846 8260D	50	11/16/2024 00:22	BST	A
Bromoform	ND	ND,S2	ug/kg	43.2	17.3	SW846 8260D	50	11/16/2024 00:22	BST	A
Bromomethane	23.2J	J,S2	ug/kg	43.2	16.8	SW846 8260D	50	11/16/2024 00:22	BST	A
Carbon Disulfide	ND	ND,S2	ug/kg	43.2	9.9	SW846 8260D	50	11/16/2024 00:22	BST	A
Carbon Tetrachloride	ND	ND,S2	ug/kg	43.2	13.4	SW846 8260D	50	11/16/2024 00:22	BST	A
Chlorobenzene	ND	ND,S2	ug/kg	43.2	8.2	SW846 8260D	50	11/16/2024 00:22	BST	A
Chlorodibromomethane	ND	ND,S2	ug/kg	43.2	19.4	SW846 8260D	50	11/16/2024 00:22	BST	A

Results

Client Sample ID	SB-200-10	Collected	11/13/2024 11:45
Lab Sample ID	3387696004	Lab Receipt	11/14/2024 09:10

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroethane	ND	ND,S2	ug/kg	43.2	14.2	SW846 8260D	50	11/16/2024 00:22	BST	A
Chloroform	ND	ND,S2	ug/kg	43.2	9.1	SW846 8260D	50	11/16/2024 00:22	BST	A
Chloromethane	ND	ND,S2	ug/kg	43.2	13.4	SW846 8260D	50	11/16/2024 00:22	BST	A
cis-1,2-Dichloroethene	ND	ND,S2	ug/kg	43.2	13.8	SW846 8260D	50	11/16/2024 00:22	BST	A
cis-1,3-Dichloropropene	ND	ND,S2	ug/kg	43.2	13.4	SW846 8260D	50	11/16/2024 00:22	BST	A
Cyclohexane	30.7J	J,S2	ug/kg	43.2	12.5	SW846 8260D	50	11/16/2024 00:22	BST	A
Dichlorodifluoromethane	ND	ND,S2	ug/kg	43.2	14.2	SW846 8260D	50	11/16/2024 00:22	BST	A
Ethylbenzene	ND	ND,S2	ug/kg	43.2	14.7	SW846 8260D	50	11/16/2024 00:22	BST	A
Freon 113	ND	ND,S2	ug/kg	43.2	11.2	SW846 8260D	50	11/16/2024 00:22	BST	A
Isopropylbenzene	10.5J	J,S2	ug/kg	43.2	9.5	SW846 8260D	50	11/16/2024 00:22	BST	A
Methyl acetate	69.1J	J,S2	ug/kg	86.3	13.8	SW846 8260D	50	11/16/2024 00:22	BST	A
Methyl cyclohexane	143	S2	ug/kg	43.2	12.9	SW846 8260D	50	11/16/2024 00:22	BST	A
Methyl t-Butyl Ether	ND	ND,S2	ug/kg	43.2	14.2	SW846 8260D	50	11/16/2024 00:22	BST	A
Methylene Chloride	ND	ND,S2	ug/kg	43.2	19.4	SW846 8260D	50	11/16/2024 00:22	BST	A
mp-Xylene	40.9J	J,S2	ug/kg	86.3	22.4	SW846 8260D	50	11/16/2024 00:22	BST	A
o-Xylene	31.7J	J,S2	ug/kg	43.2	14.2	SW846 8260D	50	11/16/2024 00:22	BST	A
Styrene	ND	ND,S2	ug/kg	43.2	10.4	SW846 8260D	50	11/16/2024 00:22	BST	A
Tetrachloroethene	ND	ND,S2	ug/kg	43.2	15.1	SW846 8260D	50	11/16/2024 00:22	BST	A
Toluene	31.5J	J,S2	ug/kg	43.2	9.9	SW846 8260D	50	11/16/2024 00:22	BST	A
Total Xylenes	72.6J	J,S2	ug/kg	129	28.5	SW846 8260D	50	11/16/2024 00:22	BST	A
trans-1,2-Dichloroethene	ND	ND,S2	ug/kg	43.2	11.2	SW846 8260D	50	11/16/2024 00:22	BST	A
trans-1,3-Dichloropropene	ND	ND,S2	ug/kg	43.2	12.5	SW846 8260D	50	11/16/2024 00:22	BST	A
Trichloroethene	ND	ND,S2	ug/kg	43.2	14.2	SW846 8260D	50	11/16/2024 00:22	BST	A
Trichlorofluoromethane	ND	ND,S2	ug/kg	43.2	10.4	SW846 8260D	50	11/16/2024 00:22	BST	A
Vinyl Chloride	ND	ND,S2	ug/kg	43.2	12.9	SW846 8260D	50	11/16/2024 00:22	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	90.5%	71 – 146	11/16/2024 00:22	
4-Bromofluorobenzene	460-00-4	96.6%	46 – 138	11/16/2024 00:22	
Dibromofluoromethane	1868-53-7	80.9%	42 – 143	11/16/2024 00:22	
Toluene-d8	2037-26-5	96.4%	54 – 141	11/16/2024 00:22	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	10.9	S2	%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A
Total Solids	89.1	S2	%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A

Results

Client Sample ID	SB-202-11	Collected	11/13/2024 15:30
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	10600		mg/kg	15.5	5.2	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Antimony, Total	6.9		mg/kg	3.1	1.0	SW846 6010C	1	12/05/2024 09:50	MSY	F1
Arsenic, Total	22.1		mg/kg	3.1	1.0	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Barium, Total	58.5		mg/kg	1.6	0.52	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Beryllium, Total	0.90J	J	mg/kg	1.6	0.52	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Cadmium, Total	9.2		mg/kg	0.78	0.26	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Calcium, Total	12500		mg/kg	15.5	5.2	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Chromium, Total	35.7		mg/kg	1.6	0.52	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Cobalt, Total	29.2		mg/kg	1.6	0.52	SW846 6010C	1	12/05/2024 09:50	MSY	F1
Copper, Total	93.0		mg/kg	3.1	1.0	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Iron, Total	39900		mg/kg	15.5	5.2	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Lead, Total	106		mg/kg	3.1	1.0	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Magnesium, Total	8130		mg/kg	15.5	5.2	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Manganese, Total	441		mg/kg	1.6	0.52	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Mercury, Total	0.44		mg/kg	0.083	0.027	SW846 7471B	1	11/26/2024 10:20	JMS	F
Nickel, Total	38.7		mg/kg	3.1	1.0	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Potassium, Total	1320		mg/kg	77.7	25.9	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Selenium, Total	6.8J	J	mg/kg	7.8	2.6	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Silver, Total	0.73J	J	mg/kg	0.78	0.26	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Sodium, Total	217		mg/kg	77.7	25.9	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Thallium, Total	3.0J	J	mg/kg	4.7	1.6	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Vanadium, Total	23.6		mg/kg	1.6	0.52	SW846 6010C	1	12/03/2024 11:03	MSY	F1
Zinc, Total	304		mg/kg	3.1	1.0	SW846 6010C	1	12/03/2024 11:03	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
1,4-Dioxane	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	1160	196	SW846 8270E	4	11/20/2024 00:51	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	1160	196	SW846 8270E	4	11/20/2024 00:51	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	1160	196	SW846 8270E	4	11/20/2024 00:51	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	1160	196	SW846 8270E	4	11/20/2024 00:51	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	1160	196	SW846 8270E	4	11/20/2024 00:51	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	2310	1140	SW846 8270E	4	11/20/2024 00:51	S7M	F
2,4-Dinitrotoluene	ND	ND	ug/kg	578	116	SW846 8270E	4	11/20/2024 00:51	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	578	196	SW846 8270E	4	11/20/2024 00:51	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
2-Chlorophenol	ND	ND	ug/kg	1160	196	SW846 8270E	4	11/20/2024 00:51	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	1160	289	SW846 8270E	4	11/20/2024 00:51	S7M	F
2-Methylnaphthalene	311J	J	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
2-Nitroaniline	ND	ND	ug/kg	1160	133	SW846 8270E	4	11/20/2024 00:51	S7M	F
2-Nitrophenol	ND	ND	ug/kg	1160	196	SW846 8270E	4	11/20/2024 00:51	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	1160	179	SW846 8270E	4	11/20/2024 00:51	S7M	F
3-Nitroaniline	ND	ND	ug/kg	1160	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	1160	196	SW846 8270E	4	11/20/2024 00:51	S7M	F

Results

Client Sample ID	SB-202-11	Collected	11/13/2024 15:30
Lab Sample ID	3387696005	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	1160	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
4-Nitroaniline	ND	ND	ug/kg	1160	167	SW846 8270E	4	11/20/2024 00:51	S7M	F
4-Nitrophenol	ND	ND,11	ug/kg	1160	196	SW846 8270E	4	11/20/2024 00:51	S7M	F
Acenaphthene	208J	J	ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Acenaphthylene	143J	J	ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Acetophenone	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Anthracene	423		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Atrazine	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Benzaldehyde	ND	ND	ug/kg	1160	116	SW846 8270E	4	11/20/2024 00:51	S7M	F
Benzo(a)anthracene	839		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Benzo(a)pyrene	771		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Benzo(b)fluoranthene	700		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Benzo(g,h,i)perylene	449		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Benzo(k)fluoranthene	556		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Biphenyl	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	578	127	SW846 8270E	4	11/20/2024 00:51	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Caprolactam	ND	ND	ug/kg	1160	225	SW846 8270E	4	11/20/2024 00:51	S7M	F
Carbazole	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Chrysene	937		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Dibenzo(a,h)anthracene	138J	J	ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Dibenzofuran	209J	J	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Diethylphthalate	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Dimethylphthalate	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	578	202	SW846 8270E	4	11/20/2024 00:51	S7M	F
Di-n-Octylphthalate	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Fluoranthene	2040		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Fluorene	452		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	1160	173	SW846 8270E	4	11/20/2024 00:51	S7M	F
Hexachloroethane	ND	ND	ug/kg	578	133	SW846 8270E	4	11/20/2024 00:51	S7M	F
Indeno(1,2,3-cd)pyrene	363		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Isophorone	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
mp-Cresol	210J	J,10	ug/kg	1160	196	SW846 8270E	4	11/20/2024 00:51	S7M	F
Naphthalene	637		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Nitrobenzene	ND	ND	ug/kg	578	196	SW846 8270E	4	11/20/2024 00:51	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	578	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
o-Cresol	ND	ND	ug/kg	1160	196	SW846 8270E	4	11/20/2024 00:51	S7M	F
Pentachlorophenol	ND	ND	ug/kg	1160	283	SW846 8270E	4	11/20/2024 00:51	S7M	F
Phenanthrene	1520		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F
Phenol	ND	ND	ug/kg	1160	196	SW846 8270E	4	11/20/2024 00:51	S7M	F

Results

Client Sample ID	SB-202-11	Collected	11/13/2024 15:30
Lab Sample ID	3387696005	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	1230		ug/kg	289	98.2	SW846 8270E	4	11/20/2024 00:51	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	71.6%	19 – 132	11/20/2024 00:51	
2-Fluorobiphenyl	321-60-8	65.1%	40 – 110	11/20/2024 00:51	
2-Fluorophenol	367-12-4	43.1%	26 – 116	11/20/2024 00:51	
Nitrobenzene-d5	4165-60-0	55.7%	38 – 112	11/20/2024 00:51	
Phenol-d5	4165-62-2	53%	35 – 111	11/20/2024 00:51	
Terphenyl-d14	98904-43-9	78.4%	45 – 126	11/20/2024 00:51	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	3.5	1.1	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	3.5	0.99	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/kg	3.5	0.99	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,1-Dichloroethane	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,1-Dichloroethene	ND	ND	ug/kg	3.5	0.92	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,2,3-Trichlorobenzene	ND	ND,3	ug/kg	8.8	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,2,4-Trichlorobenzene	ND	ND,4,5	ug/kg	8.8	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,2,4-Trimethylbenzene	1.7J	J	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	3.5	0.44	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,2-Dibromoethane	ND	ND	ug/kg	3.5	0.95	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,2-Dichlorobenzene	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,2-Dichloroethane	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,2-Dichloroethene, Total	ND	ND	ug/kg	7.1	1.2	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,2-Dichloropropane	ND	ND	ug/kg	3.5	1.1	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,3,5-Trimethylbenzene	2.1J	J	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
1,4-Dichlorobenzene	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
2-Butanone	18.6		ug/kg	17.6	5.6	SW846 8260D	1	11/21/2024 07:19	PDK	B
2-Hexanone	ND	ND	ug/kg	17.6	4.9	SW846 8260D	1	11/21/2024 07:19	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	17.6	6.7	SW846 8260D	1	11/21/2024 07:19	PDK	B
Acetone	82.3		ug/kg	17.6	8.1	SW846 8260D	1	11/21/2024 07:19	PDK	B
Benzene	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
Bromochloromethane	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
Bromodichloromethane	ND	ND	ug/kg	3.5	1.3	SW846 8260D	1	11/21/2024 07:19	PDK	B
Bromoform	ND	ND	ug/kg	3.5	0.92	SW846 8260D	1	11/21/2024 07:19	PDK	B
Bromomethane	ND	ND	ug/kg	3.5	0.92	SW846 8260D	1	11/21/2024 07:19	PDK	B
Carbon Disulfide	2.0J	J	ug/kg	3.5	1.1	SW846 8260D	1	11/21/2024 07:19	PDK	B
Carbon Tetrachloride	ND	ND	ug/kg	3.5	0.90	SW846 8260D	1	11/21/2024 07:19	PDK	B
Chlorobenzene	ND	ND	ug/kg	3.5	0.90	SW846 8260D	1	11/21/2024 07:19	PDK	B
Chlorodibromomethane	ND	ND	ug/kg	3.5	1.2	SW846 8260D	1	11/21/2024 07:19	PDK	B
Chloroethane	ND	ND	ug/kg	8.8	1.5	SW846 8260D	1	11/21/2024 07:19	PDK	B

Results

Client Sample ID	SB-202-11	Collected	11/13/2024 15:30
Lab Sample ID	3387696005	Lab Receipt	11/14/2024 09:10

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	3.5	0.93	SW846 8260D	1	11/21/2024 07:19	PDK	B
Chloromethane	ND	ND	ug/kg	3.5	0.97	SW846 8260D	1	11/21/2024 07:19	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/kg	3.5	0.97	SW846 8260D	1	11/21/2024 07:19	PDK	B
Cyclohexane	1.7J	J	ug/kg	3.5	0.90	SW846 8260D	1	11/21/2024 07:19	PDK	B
Dichlorodifluoromethane	ND	ND	ug/kg	3.5	1.2	SW846 8260D	1	11/21/2024 07:19	PDK	B
Ethylbenzene	ND	ND	ug/kg	3.5	1.2	SW846 8260D	1	11/21/2024 07:19	PDK	B
Freon 113	ND	ND,1	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
Isopropylbenzene	4.0		ug/kg	3.5	1.1	SW846 8260D	1	11/21/2024 07:19	PDK	B
Methyl acetate	ND	ND	ug/kg	3.5	1.0	SW846 8260D	1	11/21/2024 07:19	PDK	B
Methyl cyclohexane	3.4J	J	ug/kg	3.5	0.99	SW846 8260D	1	11/21/2024 07:19	PDK	B
Methyl t-Butyl Ether	ND	ND,2	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
Methylene Chloride	2.3J	J	ug/kg	3.5	1.4	SW846 8260D	1	11/21/2024 07:19	PDK	B
mp-Xylene	ND	ND	ug/kg	7.1	1.5	SW846 8260D	1	11/21/2024 07:19	PDK	B
o-Xylene	2.7J	J	ug/kg	3.5	1.0	SW846 8260D	1	11/21/2024 07:19	PDK	B
Styrene	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
Tetrachloroethene	ND	ND	ug/kg	3.5	1.1	SW846 8260D	1	11/21/2024 07:19	PDK	B
Toluene	ND	ND	ug/kg	3.5	1.2	SW846 8260D	1	11/21/2024 07:19	PDK	B
Total Xylenes	2.7J	J	ug/kg	10.6	2.5	SW846 8260D	1	11/21/2024 07:19	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/kg	3.5	0.92	SW846 8260D	1	11/21/2024 07:19	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/kg	3.5	1.0	SW846 8260D	1	11/21/2024 07:19	PDK	B
Trichloroethene	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
Trichlorofluoromethane	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B
Vinyl Chloride	ND	ND	ug/kg	3.5	0.88	SW846 8260D	1	11/21/2024 07:19	PDK	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	56 – 124	11/21/2024 07:19	
4-Bromofluorobenzene	460-00-4	114%	51 – 128	11/21/2024 07:19	
Dibromofluoromethane	1868-53-7	103%	62 – 123	11/21/2024 07:19	
Toluene-d8	2037-26-5	107%	59 – 131	11/21/2024 07:19	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	40.3		%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A
Total Solids	59.7		%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A

Results

Client Sample ID	SB-202-11D	Collected	11/13/2024 15:45
Lab Sample ID	3387696006	Lab Receipt	11/14/2024 09:10

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	9520		mg/kg	13.1	4.4	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Antimony, Total	4.9		mg/kg	2.6	0.88	SW846 6010C	1	12/05/2024 09:51	MSY	F1
Arsenic, Total	17.0		mg/kg	2.6	0.88	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Barium, Total	51.0		mg/kg	1.3	0.44	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Beryllium, Total	0.81J	J	mg/kg	1.3	0.44	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Cadmium, Total	6.5		mg/kg	0.66	0.22	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Calcium, Total	12700		mg/kg	13.1	4.4	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Chromium, Total	29.4		mg/kg	1.3	0.44	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Cobalt, Total	27.9		mg/kg	1.3	0.44	SW846 6010C	1	12/05/2024 09:51	MSY	F1
Copper, Total	76.2		mg/kg	2.6	0.88	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Iron, Total	35900		mg/kg	13.1	4.4	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Lead, Total	127		mg/kg	2.6	0.88	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Magnesium, Total	7890		mg/kg	13.1	4.4	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Manganese, Total	429		mg/kg	1.3	0.44	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Mercury, Total	0.41		mg/kg	0.065	0.021	SW846 7471B	1	11/26/2024 10:16	JMS	F
Nickel, Total	33.0		mg/kg	2.6	0.88	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Potassium, Total	1130		mg/kg	65.6	21.9	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Selenium, Total	4.4J	J	mg/kg	6.6	2.2	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Silver, Total	0.49J	J	mg/kg	0.66	0.22	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Sodium, Total	187		mg/kg	65.6	21.9	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Thallium, Total	2.5J	J	mg/kg	3.9	1.3	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Vanadium, Total	19.6		mg/kg	1.3	0.44	SW846 6010C	1	12/03/2024 11:05	MSY	F1
Zinc, Total	273		mg/kg	2.6	0.88	SW846 6010C	1	12/03/2024 11:05	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
1,4-Dioxane	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 01:17	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 01:17	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 01:17	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 01:17	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 01:17	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	2260	1120	SW846 8270E	4	11/20/2024 01:17	S7M	F
2,4-Dinitrotoluene	ND	ND	ug/kg	564	113	SW846 8270E	4	11/20/2024 01:17	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	564	192	SW846 8270E	4	11/20/2024 01:17	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
2-Chlorophenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 01:17	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	1130	282	SW846 8270E	4	11/20/2024 01:17	S7M	F
2-Methylnaphthalene	910		ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
2-Nitroaniline	ND	ND	ug/kg	1130	130	SW846 8270E	4	11/20/2024 01:17	S7M	F
2-Nitrophenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 01:17	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	1130	175	SW846 8270E	4	11/20/2024 01:17	S7M	F
3-Nitroaniline	ND	ND	ug/kg	1130	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 01:17	S7M	F

Results

Client Sample ID	SB-202-11D	Collected	11/13/2024 15:45
Lab Sample ID	3387696006	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	1130	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
4-Nitroaniline	ND	ND	ug/kg	1130	164	SW846 8270E	4	11/20/2024 01:17	S7M	F
4-Nitrophenol	ND	ND,11	ug/kg	1130	192	SW846 8270E	4	11/20/2024 01:17	S7M	F
Acenaphthene	505		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Acenaphthylene	365		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Acetophenone	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Anthracene	1190		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Atrazine	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Benzaldehyde	ND	ND	ug/kg	1130	113	SW846 8270E	4	11/20/2024 01:17	S7M	F
Benzo(a)anthracene	2050		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Benzo(a)pyrene	1610		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Benzo(b)fluoranthene	1580		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Benzo(g,h,i)perylene	794		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Benzo(k)fluoranthene	1320		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Biphenyl	138J	J	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	564	124	SW846 8270E	4	11/20/2024 01:17	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Caprolactam	ND	ND	ug/kg	1130	220	SW846 8270E	4	11/20/2024 01:17	S7M	F
Carbazole	216J	J	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Chrysene	2230		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Dibenzo(a,h)anthracene	ND	ND	ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Dibenzofuran	578		ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Diethylphthalate	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Dimethylphthalate	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	564	198	SW846 8270E	4	11/20/2024 01:17	S7M	F
Di-n-Octylphthalate	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Fluoranthene	5240		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Fluorene	1070		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	1130	169	SW846 8270E	4	11/20/2024 01:17	S7M	F
Hexachloroethane	ND	ND	ug/kg	564	130	SW846 8270E	4	11/20/2024 01:17	S7M	F
Indeno(1,2,3-cd)pyrene	782		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Isophorone	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
mp-Cresol	287J	J,10	ug/kg	1130	192	SW846 8270E	4	11/20/2024 01:17	S7M	F
Naphthalene	1660		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Nitrobenzene	ND	ND	ug/kg	564	192	SW846 8270E	4	11/20/2024 01:17	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	564	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
o-Cresol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 01:17	S7M	F
Pentachlorophenol	ND	ND	ug/kg	1130	277	SW846 8270E	4	11/20/2024 01:17	S7M	F
Phenanthrene	4390		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F
Phenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 01:17	S7M	F

Results

Client Sample ID	SB-202-11D	Collected	11/13/2024 15:45
Lab Sample ID	3387696006	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	3120		ug/kg	282	95.9	SW846 8270E	4	11/20/2024 01:17	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	73.5%	19 – 132	11/20/2024 01:17	
2-Fluorobiphenyl	321-60-8	74.7%	40 – 110	11/20/2024 01:17	
2-Fluorophenol	367-12-4	64.4%	26 – 116	11/20/2024 01:17	
Nitrobenzene-d5	4165-60-0	74.8%	38 – 112	11/20/2024 01:17	
Phenol-d5	4165-62-2	66.5%	35 – 111	11/20/2024 01:17	
Terphenyl-d14	98904-43-9	76.6%	45 – 126	11/20/2024 01:17	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	3.0	0.93	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	3.0	0.84	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/kg	3.0	0.84	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,1-Dichloroethane	ND	ND	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,1-Dichloroethene	ND	ND	ug/kg	3.0	0.78	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,2,3-Trichlorobenzene	ND	ND,3	ug/kg	7.5	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,2,4-Trichlorobenzene	ND	ND,4,5	ug/kg	7.5	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,2,4-Trimethylbenzene	1.2J	J	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	3.0	0.38	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,2-Dibromoethane	ND	ND	ug/kg	3.0	0.81	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,2-Dichlorobenzene	ND	ND	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,2-Dichloroethane	ND	ND	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,2-Dichloroethene, Total	ND	ND	ug/kg	6.0	1.0	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,2-Dichloropropane	ND	ND	ug/kg	3.0	0.90	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,3,5-Trimethylbenzene	1.4J	J	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
1,4-Dichlorobenzene	ND	ND	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
2-Butanone	11.3J	J	ug/kg	15.0	4.8	SW846 8260D	1	11/21/2024 07:44	PDK	B
2-Hexanone	ND	ND	ug/kg	15.0	4.2	SW846 8260D	1	11/21/2024 07:44	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	15.0	5.7	SW846 8260D	1	11/21/2024 07:44	PDK	B
Acetone	53.0		ug/kg	15.0	6.9	SW846 8260D	1	11/21/2024 07:44	PDK	B
Benzene	1.1J	J	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
Bromochloromethane	ND	ND	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
Bromodichloromethane	ND	ND	ug/kg	3.0	1.1	SW846 8260D	1	11/21/2024 07:44	PDK	B
Bromoform	ND	ND	ug/kg	3.0	0.78	SW846 8260D	1	11/21/2024 07:44	PDK	B
Bromomethane	ND	ND	ug/kg	3.0	0.78	SW846 8260D	1	11/21/2024 07:44	PDK	B
Carbon Disulfide	1.3J	J	ug/kg	3.0	0.95	SW846 8260D	1	11/21/2024 07:44	PDK	B
Carbon Tetrachloride	ND	ND	ug/kg	3.0	0.77	SW846 8260D	1	11/21/2024 07:44	PDK	B
Chlorobenzene	ND	ND	ug/kg	3.0	0.77	SW846 8260D	1	11/21/2024 07:44	PDK	B
Chlorodibromomethane	ND	ND	ug/kg	3.0	1.0	SW846 8260D	1	11/21/2024 07:44	PDK	B
Chloroethane	ND	ND	ug/kg	7.5	1.3	SW846 8260D	1	11/21/2024 07:44	PDK	B

Results

Client Sample ID	SB-202-11D	Collected	11/13/2024 15:45
Lab Sample ID	3387696006	Lab Receipt	11/14/2024 09:10

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	3.0	0.80	SW846 8260D	1	11/21/2024 07:44	PDK	B
Chloromethane	ND	ND	ug/kg	3.0	0.83	SW846 8260D	1	11/21/2024 07:44	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/kg	3.0	0.83	SW846 8260D	1	11/21/2024 07:44	PDK	B
Cyclohexane	1.6J	J	ug/kg	3.0	0.77	SW846 8260D	1	11/21/2024 07:44	PDK	B
Dichlorodifluoromethane	ND	ND	ug/kg	3.0	1.0	SW846 8260D	1	11/21/2024 07:44	PDK	B
Ethylbenzene	ND	ND	ug/kg	3.0	1.0	SW846 8260D	1	11/21/2024 07:44	PDK	B
Freon 113	ND	ND,1	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
Isopropylbenzene	3.8		ug/kg	3.0	0.92	SW846 8260D	1	11/21/2024 07:44	PDK	B
Methyl acetate	ND	ND	ug/kg	3.0	0.89	SW846 8260D	1	11/21/2024 07:44	PDK	B
Methyl cyclohexane	2.2J	J	ug/kg	3.0	0.84	SW846 8260D	1	11/21/2024 07:44	PDK	B
Methyl t-Butyl Ether	ND	ND,2	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
Methylene Chloride	1.9J	J	ug/kg	3.0	1.2	SW846 8260D	1	11/21/2024 07:44	PDK	B
mp-Xylene	ND	ND	ug/kg	6.0	1.2	SW846 8260D	1	11/21/2024 07:44	PDK	B
o-Xylene	2.3J	J	ug/kg	3.0	0.87	SW846 8260D	1	11/21/2024 07:44	PDK	B
Styrene	ND	ND	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
Tetrachloroethene	ND	ND	ug/kg	3.0	0.90	SW846 8260D	1	11/21/2024 07:44	PDK	B
Toluene	ND	ND	ug/kg	3.0	1.0	SW846 8260D	1	11/21/2024 07:44	PDK	B
Total Xylenes	2.3J	J	ug/kg	9.0	2.1	SW846 8260D	1	11/21/2024 07:44	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/kg	3.0	0.78	SW846 8260D	1	11/21/2024 07:44	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/kg	3.0	0.87	SW846 8260D	1	11/21/2024 07:44	PDK	B
Trichloroethene	ND	ND	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
Trichlorofluoromethane	ND	ND	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B
Vinyl Chloride	ND	ND	ug/kg	3.0	0.75	SW846 8260D	1	11/21/2024 07:44	PDK	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	56 – 124	11/21/2024 07:44	
4-Bromofluorobenzene	460-00-4	113%	51 – 128	11/21/2024 07:44	
Dibromofluoromethane	1868-53-7	97.4%	62 – 123	11/21/2024 07:44	
Toluene-d8	2037-26-5	103%	59 – 131	11/21/2024 07:44	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	33.1		%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A
Total Solids	66.9		%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A

Results

Client Sample ID	SB-205-11	Collected	11/13/2024 16:10
Lab Sample ID	3387696007	Lab Receipt	11/14/2024 09:10

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	8920	S3	mg/kg	14.3	4.8	SW846 6010C	1	11/27/2024 10:42	MSY	F
Antimony, Total	2.2J	J,S3	mg/kg	2.9	0.96	SW846 6010C	1	11/27/2024 10:42	MSY	F
Arsenic, Total	14.9	S3	mg/kg	2.9	0.96	SW846 6010C	1	11/27/2024 10:42	MSY	F
Barium, Total	50.4	S3	mg/kg	1.4	0.48	SW846 6010C	1	11/27/2024 10:42	MSY	F
Beryllium, Total	0.95J	J,S3	mg/kg	1.4	0.48	SW846 6010C	1	11/27/2024 10:42	MSY	F
Cadmium, Total	3.3	S3	mg/kg	0.72	0.24	SW846 6010C	1	11/27/2024 10:42	MSY	F
Calcium, Total	30500	S3	mg/kg	14.3	4.8	SW846 6010C	1	11/27/2024 10:42	MSY	F
Chromium, Total	38.1	S3	mg/kg	1.4	0.48	SW846 6010C	1	11/27/2024 10:42	MSY	F
Cobalt, Total	27.5	S3	mg/kg	1.4	0.48	SW846 6010C	1	11/27/2024 10:42	MSY	F
Copper, Total	91.5	S3	mg/kg	2.9	0.96	SW846 6010C	1	11/27/2024 10:42	MSY	F
Iron, Total	60200	S3	mg/kg	14.3	4.8	SW846 6010C	1	11/27/2024 10:42	MSY	F
Lead, Total	87.9	S3	mg/kg	2.9	0.96	SW846 6010C	1	11/27/2024 10:42	MSY	F
Magnesium, Total	11700	S3	mg/kg	14.3	4.8	SW846 6010C	1	11/27/2024 10:42	MSY	F
Manganese, Total	906	S3	mg/kg	1.4	0.48	SW846 6010C	1	11/27/2024 10:42	MSY	F
Mercury, Total	0.26	S3	mg/kg	0.063	0.020	SW846 7471B	1	11/26/2024 10:02	JMS	F
Nickel, Total	35.2	S3	mg/kg	2.9	0.96	SW846 6010C	1	11/27/2024 10:42	MSY	F
Potassium, Total	903	S3	mg/kg	71.7	24.0	SW846 6010C	1	11/27/2024 10:42	MSY	F
Selenium, Total	6.5J	J,S3	mg/kg	7.2	2.4	SW846 6010C	1	11/27/2024 10:42	MSY	F
Silver, Total	0.62J	J,S3	mg/kg	0.72	0.24	SW846 6010C	1	11/27/2024 10:42	MSY	F
Sodium, Total	180	S3	mg/kg	71.7	24.0	SW846 6010C	1	11/27/2024 10:42	MSY	F
Thallium, Total	6.9	S3	mg/kg	4.3	1.4	SW846 6010C	1	11/27/2024 10:42	MSY	F
Vanadium, Total	23.3	S3	mg/kg	1.4	0.48	SW846 6010C	1	11/27/2024 10:42	MSY	F
Zinc, Total	330	S3	mg/kg	2.9	0.96	SW846 6010C	1	11/27/2024 10:42	MSY	F

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
1,4-Dioxane	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND,S3	ug/kg	1170	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
2,4,5-Trichlorophenol	ND	ND,S3	ug/kg	1170	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
2,4,6-Trichlorophenol	ND	ND,S3	ug/kg	1170	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
2,4-Dichlorophenol	ND	ND,S3	ug/kg	1170	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
2,4-Dimethylphenol	ND	ND,S3	ug/kg	1170	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
2,4-Dinitrophenol	ND	ND,S3	ug/kg	2340	1160	SW846 8270E	4	11/20/2024 01:44	S7M	F
2,4-Dinitrotoluene	ND	ND,S3	ug/kg	584	117	SW846 8270E	4	11/20/2024 01:44	S7M	F
2,6-Dinitrotoluene	ND	ND,S3	ug/kg	584	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
2-Chloronaphthalene	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
2-Chlorophenol	ND	ND,S3	ug/kg	1170	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,S3	ug/kg	1170	292	SW846 8270E	4	11/20/2024 01:44	S7M	F
2-Methylnaphthalene	1670	S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
2-Nitroaniline	ND	ND,S3	ug/kg	1170	134	SW846 8270E	4	11/20/2024 01:44	S7M	F
2-Nitrophenol	ND	ND,S3	ug/kg	1170	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
3,3-Dichlorobenzidine	ND	ND,S3	ug/kg	1170	181	SW846 8270E	4	11/20/2024 01:44	S7M	F
3-Nitroaniline	ND	ND,S3	ug/kg	1170	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
4-Bromophenyl-phenylether	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
4-Chloro-3-methylphenol	ND	ND,S3	ug/kg	1170	199	SW846 8270E	4	11/20/2024 01:44	S7M	F

Results

Client Sample ID	SB-205-11	Collected	11/13/2024 16:10
Lab Sample ID	3387696007	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND,S3	ug/kg	1170	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
4-Chlorophenyl-phenylether	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
4-Nitroaniline	ND	ND,S3	ug/kg	1170	169	SW846 8270E	4	11/20/2024 01:44	S7M	F
4-Nitrophenol	ND	ND,11,S3	ug/kg	1170	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
Acenaphthene	1680	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Acenaphthylene	424	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Acetophenone	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Anthracene	1770	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Atrazine	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Benzaldehyde	ND	ND,S3	ug/kg	1170	117	SW846 8270E	4	11/20/2024 01:44	S7M	F
Benzo(a)anthracene	2250	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Benzo(a)pyrene	1940	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Benzo(b)fluoranthene	1870	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Benzo(g,h,i)perylene	862	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Benzo(k)fluoranthene	1650	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Biphenyl	162J	J,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
bis(2-Chloroethoxy)methane	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
bis(2-Chloroethyl)ether	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND,S3	ug/kg	584	128	SW846 8270E	4	11/20/2024 01:44	S7M	F
Butylbenzylphthalate	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Caprolactam	ND	ND,S3	ug/kg	1170	228	SW846 8270E	4	11/20/2024 01:44	S7M	F
Carbazole	288J	J,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Chrysene	2500	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Dibenzo(a,h)anthracene	287J	J,S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Dibenzofuran	1050	S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Diethylphthalate	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Dimethylphthalate	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Di-n-Butylphthalate	ND	ND,S3	ug/kg	584	204	SW846 8270E	4	11/20/2024 01:44	S7M	F
Di-n-Octylphthalate	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Fluoranthene	6720	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Fluorene	1770	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Hexachlorobenzene	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Hexachlorobutadiene	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Hexachlorocyclopentadiene	ND	ND,S3	ug/kg	1170	175	SW846 8270E	4	11/20/2024 01:44	S7M	F
Hexachloroethane	ND	ND,S3	ug/kg	584	134	SW846 8270E	4	11/20/2024 01:44	S7M	F
Indeno(1,2,3-cd)pyrene	946	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Isophorone	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
mp-Cresol	ND	ND,10,S3	ug/kg	1170	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
Naphthalene	14100	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
Nitrobenzene	ND	ND,S3	ug/kg	584	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
N-Nitroso-di-n-propylamine	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
N-Nitrosodiphenylamine	ND	ND,S3	ug/kg	584	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F
o-Cresol	ND	ND,S3	ug/kg	1170	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
Pentachlorophenol	ND	ND,S3	ug/kg	1170	286	SW846 8270E	4	11/20/2024 01:44	S7M	F
Phenanthrene	6520	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F

Results

Client Sample ID	SB-205-11	Collected	11/13/2024 16:10
Lab Sample ID	3387696007	Lab Receipt	11/14/2024 09:10

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Phenol	ND	ND,S3	ug/kg	1170	199	SW846 8270E	4	11/20/2024 01:44	S7M	F
Pyrene	4120	S3	ug/kg	292	99.3	SW846 8270E	4	11/20/2024 01:44	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	75.4%	19 – 132	11/20/2024 01:44	
2-Fluorobiphenyl	321-60-8	72.2%	40 – 110	11/20/2024 01:44	
2-Fluorophenol	367-12-4	50.8%	26 – 116	11/20/2024 01:44	
Nitrobenzene-d5	4165-60-0	63.9%	38 – 112	11/20/2024 01:44	
Phenol-d5	4165-62-2	57%	35 – 111	11/20/2024 01:44	
Terphenyl-d14	98904-43-9	81.1%	45 – 126	11/20/2024 01:44	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,S3	ug/kg	70.5	15.5	SW846 8260D	50	11/16/2024 16:24	BST	A
1,1,2,2-Tetrachloroethane	ND	ND,S3	ug/kg	70.5	24.0	SW846 8260D	50	11/16/2024 16:24	BST	A
1,1,2-Trichloroethane	ND	ND,S3	ug/kg	70.5	23.3	SW846 8260D	50	11/16/2024 16:24	BST	A
1,1-Dichloroethane	ND	ND,S3	ug/kg	70.5	19.7	SW846 8260D	50	11/16/2024 16:24	BST	A
1,1-Dichloroethene	ND	ND,S3	ug/kg	70.5	20.4	SW846 8260D	50	11/16/2024 16:24	BST	A
1,2,3-Trichlorobenzene	ND	ND,S3	ug/kg	141	65.6	SW846 8260D	50	11/16/2024 16:24	BST	A
1,2,3-Trichloropropane	ND	ND,S3	ug/kg	141	42.3	SW846 8260D	50	11/16/2024 16:24	BST	A
1,2,4-Trichlorobenzene	ND	ND,S3	ug/kg	141	57.8	SW846 8260D	50	11/16/2024 16:24	BST	A
1,2,4-Trimethylbenzene	34.8J	J,S3	ug/kg	70.5	17.6	SW846 8260D	50	11/16/2024 16:24	BST	A
1,2-Dibromo-3-chloropropane	ND	ND,S3	ug/kg	493	106	SW846 8260D	50	11/16/2024 16:24	BST	A
1,2-Dibromoethane	ND	ND,S3	ug/kg	70.5	19.7	SW846 8260D	50	11/16/2024 16:24	BST	A
1,2-Dichlorobenzene	ND	ND,S3	ug/kg	70.5	26.8	SW846 8260D	50	11/16/2024 16:24	BST	A
1,2-Dichloroethane	ND	ND,S3	ug/kg	70.5	22.6	SW846 8260D	50	11/16/2024 16:24	BST	A
1,2-Dichloroethene, Total	ND	ND,S3	ug/kg	141	31.7	SW846 8260D	50	11/16/2024 16:24	BST	A
1,2-Dichloropropane	ND	ND,S3	ug/kg	70.5	16.9	SW846 8260D	50	11/16/2024 16:24	BST	A
1,3,5-Trimethylbenzene	15.4J	J,S3	ug/kg	70.5	14.1	SW846 8260D	50	11/16/2024 16:24	BST	A
1,3-Dichlorobenzene	ND	ND,S3	ug/kg	70.5	17.6	SW846 8260D	50	11/16/2024 16:24	BST	A
1,4-Dichlorobenzene	ND	ND,S3	ug/kg	70.5	19.0	SW846 8260D	50	11/16/2024 16:24	BST	A
2-Butanone	ND	ND,S3	ug/kg	705	127	SW846 8260D	50	11/16/2024 16:24	BST	A
2-Hexanone	ND	ND,S3	ug/kg	352	91.6	SW846 8260D	50	11/16/2024 16:24	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,S3	ug/kg	352	106	SW846 8260D	50	11/16/2024 16:24	BST	A
Acetone	ND	ND,S3	ug/kg	705	219	SW846 8260D	50	11/16/2024 16:24	BST	A
Benzene	41.7J	J,S3	ug/kg	70.5	16.2	SW846 8260D	50	11/16/2024 16:24	BST	A
Bromochloromethane	ND	ND,S3	ug/kg	70.5	22.6	SW846 8260D	50	11/16/2024 16:24	BST	A
Bromodichloromethane	ND	ND,S3	ug/kg	70.5	19.0	SW846 8260D	50	11/16/2024 16:24	BST	A
Bromoform	ND	ND,S3	ug/kg	70.5	28.2	SW846 8260D	50	11/16/2024 16:24	BST	A
Bromomethane	34.2J	J,S3	ug/kg	70.5	27.5	SW846 8260D	50	11/16/2024 16:24	BST	A
Carbon Disulfide	ND	ND,S3	ug/kg	70.5	16.2	SW846 8260D	50	11/16/2024 16:24	BST	A
Carbon Tetrachloride	ND	ND,S3	ug/kg	70.5	21.9	SW846 8260D	50	11/16/2024 16:24	BST	A
Chlorobenzene	ND	ND,S3	ug/kg	70.5	13.4	SW846 8260D	50	11/16/2024 16:24	BST	A
Chlorodibromomethane	ND	ND,S3	ug/kg	70.5	31.7	SW846 8260D	50	11/16/2024 16:24	BST	A

Results

Client Sample ID	SB-205-11	Collected	11/13/2024 16:10
Lab Sample ID	3387696007	Lab Receipt	11/14/2024 09:10

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroethane	ND	ND,S3	ug/kg	70.5	23.3	SW846 8260D	50	11/16/2024 16:24	BST	A
Chloroform	ND	ND,S3	ug/kg	70.5	14.8	SW846 8260D	50	11/16/2024 16:24	BST	A
Chloromethane	ND	ND,S3	ug/kg	70.5	21.9	SW846 8260D	50	11/16/2024 16:24	BST	A
cis-1,2-Dichloroethene	ND	ND,S3	ug/kg	70.5	22.6	SW846 8260D	50	11/16/2024 16:24	BST	A
cis-1,3-Dichloropropene	ND	ND,S3	ug/kg	70.5	21.9	SW846 8260D	50	11/16/2024 16:24	BST	A
Cyclohexane	ND	ND,S3	ug/kg	70.5	20.4	SW846 8260D	50	11/16/2024 16:24	BST	A
Dichlorodifluoromethane	ND	ND,S3	ug/kg	70.5	23.3	SW846 8260D	50	11/16/2024 16:24	BST	A
Ethylbenzene	ND	ND,S3	ug/kg	70.5	24.0	SW846 8260D	50	11/16/2024 16:24	BST	A
Freon 113	ND	ND,S3	ug/kg	70.5	18.3	SW846 8260D	50	11/16/2024 16:24	BST	A
Isopropylbenzene	20.9J	J,S3	ug/kg	70.5	15.5	SW846 8260D	50	11/16/2024 16:24	BST	A
Methyl acetate	75.3J	J,S3	ug/kg	141	22.6	SW846 8260D	50	11/16/2024 16:24	BST	A
Methyl cyclohexane	31.4J	J,S3	ug/kg	70.5	21.1	SW846 8260D	50	11/16/2024 16:24	BST	A
Methyl t-Butyl Ether	ND	ND,S3	ug/kg	70.5	23.3	SW846 8260D	50	11/16/2024 16:24	BST	A
Methylene Chloride	ND	ND,S3	ug/kg	70.5	31.7	SW846 8260D	50	11/16/2024 16:24	BST	A
mp-Xylene	54.3J	J,S3	ug/kg	141	36.7	SW846 8260D	50	11/16/2024 16:24	BST	A
o-Xylene	ND	ND,S3	ug/kg	70.5	23.3	SW846 8260D	50	11/16/2024 16:24	BST	A
Styrene	ND	ND,S3	ug/kg	70.5	16.9	SW846 8260D	50	11/16/2024 16:24	BST	A
Tetrachloroethene	ND	ND,S3	ug/kg	70.5	24.7	SW846 8260D	50	11/16/2024 16:24	BST	A
Toluene	49.1J	J,S3	ug/kg	70.5	16.2	SW846 8260D	50	11/16/2024 16:24	BST	A
Total Xylenes	75.5J	J,S3	ug/kg	211	46.5	SW846 8260D	50	11/16/2024 16:24	BST	A
trans-1,2-Dichloroethene	ND	ND,S3	ug/kg	70.5	18.3	SW846 8260D	50	11/16/2024 16:24	BST	A
trans-1,3-Dichloropropene	ND	ND,S3	ug/kg	70.5	20.4	SW846 8260D	50	11/16/2024 16:24	BST	A
Trichloroethene	ND	ND,S3	ug/kg	70.5	23.3	SW846 8260D	50	11/16/2024 16:24	BST	A
Trichlorofluoromethane	ND	ND,S3	ug/kg	70.5	16.9	SW846 8260D	50	11/16/2024 16:24	BST	A
Vinyl Chloride	ND	ND,S3	ug/kg	70.5	21.1	SW846 8260D	50	11/16/2024 16:24	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	84.8%	71 – 146	11/16/2024 16:24	
4-Bromofluorobenzene	460-00-4	90.9%	46 – 138	11/16/2024 16:24	
Dibromofluoromethane	1868-53-7	78.8%	42 – 143	11/16/2024 16:24	
Toluene-d8	2037-26-5	91%	54 – 141	11/16/2024 16:24	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	32.8	S3	%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A
Total Solids	67.2	S3	%	0.1	0.01	S2540G-15	1	11/15/2024 13:10	LMD	A

Results

Client Sample ID	TB-2	Collected	11/13/2024 16:10
Lab Sample ID	3387696008	Lab Receipt	11/14/2024 09:10

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/23/2024 11:47	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/23/2024 11:47	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	11/23/2024 11:47	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	11/23/2024 11:47	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	11/23/2024 11:47	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	11/23/2024 11:47	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/23/2024 11:47	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/23/2024 11:47	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/23/2024 11:47	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	11/23/2024 11:47	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	11/23/2024 11:47	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/23/2024 11:47	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/23/2024 11:47	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	11/23/2024 11:47	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/23/2024 11:47	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/23/2024 11:47	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	11/23/2024 11:47	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/23/2024 11:47	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/23/2024 11:47	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/23/2024 11:47	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/23/2024 11:47	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/23/2024 11:47	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/23/2024 11:47	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/23/2024 11:47	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/23/2024 11:47	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	11/23/2024 11:47	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/23/2024 11:47	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/23/2024 11:47	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/23/2024 11:47	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	11/23/2024 11:47	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/23/2024 11:47	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/23/2024 11:47	TMP	A

Results

Client Sample ID	TB-2	Collected	11/13/2024 16:10
Lab Sample ID	3387696008	Lab Receipt	11/14/2024 09:10

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	11/23/2024 11:47	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/23/2024 11:47	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	11/23/2024 11:47	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/23/2024 11:47	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/23/2024 11:47	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/23/2024 11:47	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/23/2024 11:47	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/23/2024 11:47	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	11/23/2024 11:47	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	11/23/2024 11:47	
Dibromofluoromethane	1868-53-7	95.6%	78 – 116	11/23/2024 11:47	
Toluene-d8	2037-26-5	98.4%	76 – 127	11/23/2024 11:47	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3387696001	SB-212-11	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387696002	SB-214-9	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387696003	SB-215-7	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387696004	SB-200-10	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387696005	SB-202-11	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387696006	SB-202-11D	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387696007	SB-205-11	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387696008	TB-2	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1338691	Prep Method	SW846 7471B
Date	11/25/2024 16:43	Analysis Method	SW846 7471B
Tech.	JMS		

Associated Samples

3387696001 3387696002 3387696004 3387696006 3387696007

Method Blank 3909559 (MB) Created on 11/24/2024 09:44 For QC Batch 1338691

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/kg	0.050	ND

Lab Control Standard 3909560 (LCS) Created on 11/24/2024 09:44 For QC Batch 1338691

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.42		0.40	104	80 - 120		

Matrix Spike 3909561 (MS) 3387696001 For QC Batch 1338691

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909562 (MSD) 3387696001 For QC Batch 1338691

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	1.1	0.0750	0.95	106	80 - 120		
Mercury, Total	7439-97-6	MSD	0.95	0.0750	0.87	101	80 - 120	RPD 13.50 (Max-20)	

Matrix Spike 3909563 (MS) 3387696004 For QC Batch 1338691

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909564 (MSD) 3387696004 For QC Batch 1338691

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.99	0.0630	0.95	97.7	80 - 120		
Mercury, Total	7439-97-6	MSD	0.85	0.0630	0.84	93.6	80 - 120	RPD 16.10 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

QC Batch

QC Batch	1338692	Prep Method	SW846 7471B
Date	11/25/2024 16:43	Analysis Method	SW846 7471B
Tech.	JMS		

Associated Samples

3387696003 3387696005

Matrix Spike 3909567 (MS) 3387558002 (non-Project Sample) For QC Batch 1338692

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909568 (MSD) 3387558002 (non-Project Sample) For QC Batch 1338692

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.93	0.0690	0.89	96.5	80 - 120		
Mercury, Total	7439-97-6	MSD	1	0.0690	0.96	98.8	80 - 120	RPD 8.54 (Max-20)	

Matrix Spike 3909569 (MS) 3387393001 (non-Project Sample) For QC Batch 1338692

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909570 (MSD) 3387393001 (non-Project Sample) For QC Batch 1338692

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.9	0.0190	0.89	98.8	80 - 120		
Mercury, Total	7439-97-6	MSD	0.9	0.0190	0.88	99	80 - 120	RPD 0.87 (Max-20)	

Method Blank 3909565 (MB) Created on 11/24/2024 09:57 For QC Batch 1338692

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/kg	0.050	ND

Lab Control Standard 3909566 (LCS) Created on 11/24/2024 09:57 For QC Batch 1338692

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.4		0.40	100	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

QC Batch

QC Batch	1339684	Prep Method	SW846 3051A
Date	11/26/2024 11:30	Analysis Method	SW846 6010C
Tech.	NBU		

Associated Samples

3387696002	3387696003	3387696004	3387696007

Matrix Spike 3909911 (MS1) 3388790001 (non-Project Sample) For QC Batch 1339684

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909912 (MSD1) 3388790001 (non-Project Sample) For QC Batch 1339684

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Antimony, Total	7440-36-0	MS	36.3	1.20	37.10	94.6	75 - 125		
Antimony, Total	7440-36-0	MSD	34.5	1.20	38.70	86.3	75 - 125	RPD 4.87 (Max-20)	
Silver, Total	7440-22-4	MS	20.4	0.38	18.60	108	75 - 125		
Silver, Total	7440-22-4	MSD	20.2	0.38	19.30	102	75 - 125	RPD 0.83 (Max-20)	
Thallium, Total	7440-28-0	MS	92.6	0.52	92.80	99.2	75 - 125		
Thallium, Total	7440-28-0	MSD	88.8	0.52	96.70	91.3	75 - 125	RPD 4.16 (Max-20)	

Method Blank 3909904 (MB) Created on 11/25/2024 12:11 For QC Batch 1339684

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/kg	10.0	ND
Antimony, Total	7440-36-0	BLK	ND	mg/kg	2.0	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/kg	2.0	ND
Barium, Total	7440-39-3	BLK	ND	mg/kg	1.0	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/kg	1.0	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/kg	0.50	ND
Calcium, Total	7440-70-2	BLK	ND	mg/kg	10.0	ND
Chromium, Total	7440-47-3	BLK	ND	mg/kg	1.0	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/kg	1.0	ND
Copper, Total	7440-50-8	BLK	ND	mg/kg	2.0	ND
Iron, Total	7439-89-6	BLK	ND	mg/kg	10.0	ND
Lead, Total	7439-92-1	BLK	ND	mg/kg	2.0	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/kg	10.0	ND
Manganese, Total	7439-96-5	BLK	ND	mg/kg	1.0	ND
Nickel, Total	7440-02-0	BLK	ND	mg/kg	2.0	ND
Potassium, Total	7440-09-7	BLK	ND	mg/kg	50.0	ND
Selenium, Total	7782-49-2	BLK	ND	mg/kg	5.0	ND
Silver, Total	7440-22-4	BLK	ND	mg/kg	0.50	ND
Sodium, Total	7440-23-5	BLK	ND	mg/kg	50.0	ND
Thallium, Total	7440-28-0	BLK	ND	mg/kg	3.0	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Vanadium, Total	7440-62-2	BLK	ND	mg/kg	1.0	ND
Zinc, Total	7440-66-6	BLK	ND	mg/kg	2.0	ND

Lab Control Standard 3909905 (LCS1) Created on 11/25/2024 12:11 For QC Batch 1339684

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	101		100	101	80 - 120		
Antimony, Total	7440-36-0	LCS	38.9		40	97.2	80 - 120		
Arsenic, Total	7440-38-2	LCS	41		40	102	80 - 120		
Barium, Total	7440-39-3	LCS	105		100	105	80 - 120		
Beryllium, Total	7440-41-7	LCS	41		40	103	80 - 120		
Cadmium, Total	7440-43-9	LCS	20.9		20	104	80 - 120		
Calcium, Total	7440-70-2	LCS	531		500	106	80 - 120		
Chromium, Total	7440-47-3	LCS	21.3		20	107	80 - 120		
Cobalt, Total	7440-48-4	LCS	106		100	106	80 - 120		
Copper, Total	7440-50-8	LCS	101		100	101	80 - 120		
Iron, Total	7439-89-6	LCS	1030		1000	103	80 - 120		
Lead, Total	7439-92-1	LCS	104		100	104	80 - 120		
Magnesium, Total	7439-95-4	LCS	536		500	107	80 - 120		
Manganese, Total	7439-96-5	LCS	21.7		20	109	80 - 120		
Nickel, Total	7440-02-0	LCS	104		100	104	80 - 120		
Potassium, Total	7440-09-7	LCS	545		500	109	80 - 120		
Selenium, Total	7782-49-2	LCS	102		100	102	80 - 120		
Silver, Total	7440-22-4	LCS	20.3		20	102	80 - 120		
Sodium, Total	7440-23-5	LCS	540		500	108	80 - 120		
Thallium, Total	7440-28-0	LCS	102		100	102	80 - 120		
Vanadium, Total	7440-62-2	LCS	21.1		20	105	80 - 120		
Zinc, Total	7440-66-6	LCS	103		100	103	80 - 120		

QC Batch

QC Batch	1348795	Prep Method	SW846 3051A
Date	12/02/2024 07:04	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3387696001 3387696005 3387696006

Matrix Spike 3911864 (MS1) 3389267003 (non-Project Sample) For QC Batch 1348795

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911865 (MSD1) 3389267003 (non-Project Sample) For QC Batch 1348795

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Arsenic, Total	7440-38-2	MS	36.5	3.50	35.80	92.2	75 - 125		
Arsenic, Total	7440-38-2	MSD	36.4	3.50	36.90	89.1	75 - 125	RPD 0.32 (Max-20)	
Barium, Total	7440-39-3	MS	127	44	89.40	93.2	75 - 125		
Barium, Total	7440-39-3	MSD	128	44	92.30	91.1	75 - 125	RPD 0.53 (Max-20)	
Cadmium, Total	7440-43-9	MS	17.5	0.50	17.90	94.9	75 - 125		
Cadmium, Total	7440-43-9	MSD	17.6	0.50	18.50	92.7	75 - 125	RPD 0.71 (Max-20)	
Chromium, Total	7440-47-3	MS	25.3	9.10	17.90	90.2	75 - 125		
Chromium, Total	7440-47-3	MSD	27.3	9.10	18.50	98.5	75 - 125	RPD 7.79 (Max-20)	
Lead, Total	7439-92-1	MS	90.3	6	89.40	94.2	75 - 125		
Lead, Total	7439-92-1	MSD	91.3	6	92.30	92.4	75 - 125	RPD 1.05 (Max-20)	
Selenium, Total	7782-49-2	MS	85.6	0.19	89.40	95.5	75 - 125		
Selenium, Total	7782-49-2	MSD	86.5	0.19	92.30	93.6	75 - 125	RPD 1.11 (Max-20)	
Silver, Total	7440-22-4	MS	15.7	0.12	17.90	87.2	75 - 125		
Silver, Total	7440-22-4	MSD	15.8	0.12	18.50	85.3	75 - 125	RPD 0.79 (Max-20)	

Method Blank 3911862 (MB) Created on 12/02/2024 04:28 For QC Batch 1348795

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/kg	10.0	ND
Antimony, Total	7440-36-0	BLK	ND	mg/kg	2.0	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/kg	2.0	ND
Barium, Total	7440-39-3	BLK	ND	mg/kg	1.0	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/kg	1.0	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/kg	0.50	ND
Calcium, Total	7440-70-2	BLK	ND	mg/kg	10.0	ND
Chromium, Total	7440-47-3	BLK	ND	mg/kg	1.0	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/kg	1.0	ND
Copper, Total	7440-50-8	BLK	ND	mg/kg	2.0	ND
Iron, Total	7439-89-6	BLK	ND	mg/kg	10.0	ND
Lead, Total	7439-92-1	BLK	ND	mg/kg	2.0	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/kg	10.0	ND
Manganese, Total	7439-96-5	BLK	ND	mg/kg	1.0	ND
Nickel, Total	7440-02-0	BLK	ND	mg/kg	2.0	ND
Potassium, Total	7440-09-7	BLK	ND	mg/kg	50.0	ND
Selenium, Total	7782-49-2	BLK	ND	mg/kg	5.0	ND
Silver, Total	7440-22-4	BLK	ND	mg/kg	0.50	ND
Sodium, Total	7440-23-5	BLK	ND	mg/kg	50.0	ND
Thallium, Total	7440-28-0	BLK	ND	mg/kg	3.0	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/kg	1.0	ND
Zinc, Total	7440-66-6	BLK	ND	mg/kg	2.0	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3911863 (LCS1) Created on 12/02/2024 04:28 For QC Batch 1348795

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	102		100	102	80 - 120		
Antimony, Total	7440-36-0	LCS	34.6		40	86.6	80 - 120		
Arsenic, Total	7440-38-2	LCS	40.5		40	101	80 - 120		
Barium, Total	7440-39-3	LCS	105		100	105	80 - 120		
Beryllium, Total	7440-41-7	LCS	40.9		40	102	80 - 120		
Cadmium, Total	7440-43-9	LCS	20.7		20	103	80 - 120		
Calcium, Total	7440-70-2	LCS	517		500	103	80 - 120		
Chromium, Total	7440-47-3	LCS	21.2		20	106	80 - 120		
Cobalt, Total	7440-48-4	LCS	106		100	106	80 - 120		
Copper, Total	7440-50-8	LCS	101		100	101	80 - 120		
Iron, Total	7439-89-6	LCS	1040		1000	104	80 - 120		
Lead, Total	7439-92-1	LCS	104		100	104	80 - 120		
Magnesium, Total	7439-95-4	LCS	530		500	106	80 - 120		
Manganese, Total	7439-96-5	LCS	21.8		20	109	80 - 120		
Nickel, Total	7440-02-0	LCS	103		100	103	80 - 120		
Potassium, Total	7440-09-7	LCS	544		500	109	80 - 120		
Selenium, Total	7782-49-2	LCS	102		100	102	80 - 120		
Silver, Total	7440-22-4	LCS	18.6		20	93	80 - 120		
Sodium, Total	7440-23-5	LCS	535		500	107	80 - 120		
Thallium, Total	7440-28-0	LCS	102		100	102	80 - 120		
Vanadium, Total	7440-62-2	LCS	21.2		20	106	80 - 120		
Zinc, Total	7440-66-6	LCS	102		100	102	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1333043	Prep Method	SW846 3546
Date	11/17/2024 14:10	Analysis Method	SW846 8270E
Tech.	BMP		

Associated Samples

3387696001

Matrix Spike 3906152 (MS) 3387420001 (non-Project Sample) For QC Batch 1333043

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3906153 (MSD) 3387420001 (non-Project Sample) For QC Batch 1333043

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	MS	1700	0	2400	70.9	51 - 102		
1,2,4,5-Tetrachlorobenzene	95-94-3	MSD	1810	0	2450	73.7	51 - 102	RPD 5.76 (Max-19)	
1,4-Dioxane	123-91-1	MS	1130	0	2400	47.1	24 - 104		
1,4-Dioxane	123-91-1	MSD	1360	0	2450	55.5	24 - 104	RPD 18.40 (Max-30)	
2,3,4,6-Tetrachlorophenol	58-90-2	MS	4190	0	4810	87.1	55 - 111		
2,3,4,6-Tetrachlorophenol	58-90-2	MSD	4450	0	4900	90.8	55 - 111	RPD 6.11 (Max-20)	
2,4,5-Trichlorophenol	95-95-4	MS	4400	0	4810	91.5	60 - 108		
2,4,5-Trichlorophenol	95-95-4	MSD	4550	0	4900	92.7	60 - 108	RPD 3.25 (Max-22)	
2,4,6-Trichlorophenol	88-06-2	MS	4340	0	4810	90.3	59 - 111		
2,4,6-Trichlorophenol	88-06-2	MSD	4480	0	4900	91.5	59 - 111	RPD 3.19 (Max-20)	
2,4-Dichlorophenol	120-83-2	MS	4080	0	4810	84.8	61 - 109		
2,4-Dichlorophenol	120-83-2	MSD	4340	0	4900	88.5	61 - 109	RPD 6.24 (Max-20)	
2,4-Dimethylphenol	105-67-9	MS	4650	38.40	4810	96	59 - 133		
2,4-Dimethylphenol	105-67-9	MSD	5040	38.40	4900	102	59 - 133	RPD 8.04 (Max-23)	
2,4-Dinitrophenol	51-28-5	MS	1010	0	4810	21*	28 - 135		
2,4-Dinitrophenol	51-28-5	MSD	807	0	4900	16.5*	28 - 135	RPD 22.40 (Max-30)	
2,4-Dinitrotoluene	121-14-2	MS	2250	0	2400	93.7	62 - 115		
2,4-Dinitrotoluene	121-14-2	MSD	2340	0	2450	95.4	62 - 115	RPD 3.67 (Max-21)	
2,6-Dinitrotoluene	606-20-2	MS	2150	0	2400	89.6	61 - 114		
2,6-Dinitrotoluene	606-20-2	MSD	2210	0	2450	90.2	61 - 114	RPD 2.64 (Max-20)	
2-Chloronaphthalene	91-58-7	MS	1810	0	2400	75.4	59 - 104		
2-Chloronaphthalene	91-58-7	MSD	1920	0	2450	78.3	59 - 104	RPD 5.75 (Max-19)	
2-Chlorophenol	95-57-8	MS	3610	0	4810	75	61 - 106		
2-Chlorophenol	95-57-8	MSD	4150	0	4900	84.7	61 - 106	RPD 14 (Max-22)	
2-Methyl-4,6-dinitrophenol	534-52-1	MS	1870	0	4810	38.9*	39 - 113		
2-Methyl-4,6-dinitrophenol	534-52-1	MSD	1420	0	4900	29*	39 - 113	RPD 27.20 (Max-30)	
2-Methylnaphthalene	91-57-6	MS	2030	407	2400	67.4	59 - 108		
2-Methylnaphthalene	91-57-6	MSD	2100	407	2450	69.1	59 - 108	RPD 3.55 (Max-21)	
2-Nitroaniline	88-74-4	MS	2300	0	2400	95.7	60 - 115		
2-Nitroaniline	88-74-4	MSD	2430	0	2450	99.1	60 - 115	RPD 5.37 (Max-19)	
2-Nitrophenol	88-75-5	MS	4220	0	4810	87.8	60 - 114		
2-Nitrophenol	88-75-5	MSD	4790	0	4900	97.8	60 - 114	RPD 12.70 (Max-23)	
3,3-Dichlorobenzidine	91-94-1	MS	2850	0	4810	59.3	25 - 104		
3,3-Dichlorobenzidine	91-94-1	MSD	3150	0	4900	64.3	25 - 104	RPD 10.10 (Max-26)	
3-Nitroaniline	99-09-2	MS	2270	0	2400	94.4	52 - 119		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
3-Nitroaniline	99-09-2	MSD	2440	0	2450	99.4	52 - 119	RPD 7.03 (Max-22)	
4-Bromophenyl-phenylether	101-55-3	MS	1880	0	2400	78.1	60 - 110		
4-Bromophenyl-phenylether	101-55-3	MSD	1880	0	2450	76.6	60 - 110	RPD 0.07 (Max-21)	
4-Chloro-3-methylphenol	59-50-7	MS	4220	0	4810	87.9	59 - 115		
4-Chloro-3-methylphenol	59-50-7	MSD	4430	0	4900	90.3	59 - 115	RPD 4.72 (Max-20)	
4-Chloroaniline	106-47-8	MS	1600	0	2400	66.4	42 - 111		
4-Chloroaniline	106-47-8	MSD	1720	0	2450	70	42 - 111	RPD 7.30 (Max-22)	
4-Chlorophenyl-phenylether	7005-72-3	MS	2010	0	2400	83.7	59 - 107		
4-Chlorophenyl-phenylether	7005-72-3	MSD	2070	0	2450	84.5	59 - 107	RPD 2.88 (Max-18)	
4-Nitroaniline	100-01-6	MS	2380	0	2400	99.2	49 - 121		
4-Nitroaniline	100-01-6	MSD	2540	0	2450	104	49 - 121	RPD 6.45 (Max-19)	
4-Nitrophenol	100-02-7	MS	4470	0	4810	92.9	53 - 124		
4-Nitrophenol	100-02-7	MSD	4600	0	4900	93.9	53 - 124	RPD 2.94 (Max-21)	
Acenaphthene	83-32-9	MS	3020	1390	2400	67.6	61 - 105		
Acenaphthene	83-32-9	MSD	2760	1390	2450	55.9*	61 - 105	RPD 8.86 (Max-17)	
Acenaphthylene	208-96-8	MS	2770	1550	2400	50.5*	63 - 106		
Acenaphthylene	208-96-8	MSD	2640	1550	2450	44.4*	63 - 106	RPD 4.67 (Max-17)	
Acetophenone	98-86-2	MS	1630	93.60	2400	64	33 - 98		
Acetophenone	98-86-2	MSD	1850	93.60	2450	71.6	33 - 98	RPD 12.50 (Max-21)	
Anthracene	120-12-7	MS	5270	4180	2400	45.1*	60 - 107		
Anthracene	120-12-7	MSD	4380	4180	2450	8.26*	60 - 107	RPD 18.30 (Max-20)	
Atrazine	1912-24-9	MS	1850	0	2400	76.8	62 - 116		
Atrazine	1912-24-9	MSD	1960	0	2450	80	62 - 116	RPD 5.98 (Max-22)	
Benzaldehyde	100-52-7	MS	1710	0	2400	71.3	46 - 115		
Benzaldehyde	100-52-7	MSD	2050	0	2450	83.6	46 - 115	RPD 17.80 (Max-30)	
Benzo(a)anthracene	56-55-3	MS	10300	12300	2400	NC	61 - 113		
Benzo(a)anthracene	56-55-3	MSD	8150	12300	2450	NC	61 - 113	RPD 22.90* (Max-22)	
Benzo(a)pyrene	50-32-8	MS	10800	13000	2400	NC	68 - 121		
Benzo(a)pyrene	50-32-8	MSD	8800	13000	2450	NC	68 - 121	RPD 20.50 (Max-24)	
Benzo(b)fluoranthene	205-99-2	MS	11800	13200	2400	NC	64 - 115		
Benzo(b)fluoranthene	205-99-2	MSD	8610	13200	2450	NC	64 - 115	RPD 31.30* (Max-28)	
Benzo(g,h,i)perylene	191-24-2	MS	7220	7530	2400	-13*	57 - 119		
Benzo(g,h,i)perylene	191-24-2	MSD	5860	7530	2450	-68.3*	57 - 119	RPD 20.80 (Max-30)	
Benzo(k)fluoranthene	207-08-9	MS	7690	7020	2400	27.8*	63 - 116		
Benzo(k)fluoranthene	207-08-9	MSD	7210	7020	2450	7.92*	63 - 116	RPD 6.36 (Max-22)	
Biphenyl	92-52-4	MS	1810	148	2400	68.9	56 - 100		
Biphenyl	92-52-4	MSD	1860	148	2450	69.8	56 - 100	RPD 2.90 (Max-14)	
bis(2-Chloroethoxy)methane	111-91-1	MS	1790	0	2400	74.4	56 - 112		
bis(2-Chloroethoxy)methane	111-91-1	MSD	2050	0	2450	83.6	56 - 112	RPD 13.50 (Max-18)	
bis(2-Chloroethyl)ether	111-44-4	MS	1570	0	2400	65.2	51 - 109		
bis(2-Chloroethyl)ether	111-44-4	MSD	1880	0	2450	76.9	51 - 109	RPD 18.30 (Max-24)	
bis(2-Chloroisopropyl)ether	108-60-1	MS	1550	0	2400	64.5	38 - 120		
bis(2-Chloroisopropyl)ether	108-60-1	MSD	1850	0	2450	75.4	38 - 120	RPD 17.40 (Max-22)	
bis(2-Ethylhexyl)phthalate	117-81-7	MS	2450	0	2400	102	51 - 130		
bis(2-Ethylhexyl)phthalate	117-81-7	MSD	2570	0	2450	105	51 - 130	RPD 4.59 (Max-21)	
Butylbenzylphthalate	85-68-7	MS	2240	0	2400	93.3	58 - 125		
Butylbenzylphthalate	85-68-7	MSD	2330	0	2450	95	58 - 125	RPD 3.78 (Max-18)	
Caprolactam	105-60-2	MS	2130	78.40	2400	85.2	51 - 119		
Caprolactam	105-60-2	MSD	2290	78.40	2450	90.1	51 - 119	RPD 7.23 (Max-23)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Carbazole	86-74-8	MS	3560	1930	2400	68	66 - 117		
Carbazole	86-74-8	MSD	3260	1930	2450	54.6*	66 - 117	RPD 8.71 (Max-20)	
Chrysene	218-01-9	MS	10400	12100	2400	NC	65 - 113		
Chrysene	218-01-9	MSD	8240	12100	2450	NC	65 - 113	RPD 23* (Max-20)	
Dibenzo(a,h)anthracene	53-70-3	MS	3800	2520	2400	53.2*	59 - 116		
Dibenzo(a,h)anthracene	53-70-3	MSD	3170	2520	2450	26.8*	59 - 116	RPD 17.90 (Max-28)	
Dibenzofuran	132-64-9	MS	2700	1070	2400	67.9	62 - 106		
Dibenzofuran	132-64-9	MSD	2500	1070	2450	58.3*	62 - 106	RPD 7.90 (Max-18)	
Diethylphthalate	84-66-2	MS	2110	0	2400	87.8	59 - 112		
Diethylphthalate	84-66-2	MSD	2170	0	2450	88.5	59 - 112	RPD 2.75 (Max-18)	
Dimethylphthalate	131-11-3	MS	1940	0	2400	80.8	60 - 111		
Dimethylphthalate	131-11-3	MSD	1990	0	2450	81.1	60 - 111	RPD 2.34 (Max-18)	
Di-n-Butylphthalate	84-74-2	MS	2180	0	2400	90.5	62 - 125		
Di-n-Butylphthalate	84-74-2	MSD	2250	0	2450	91.8	62 - 125	RPD 3.30 (Max-20)	
Di-n-Octylphthalate	117-84-0	MS	2630	0	2400	109	47 - 134		
Di-n-Octylphthalate	117-84-0	MSD	2750	0	2450	112	47 - 134	RPD 4.36 (Max-20)	
Fluoranthene	206-44-0	MS	18400	27200	2400	NC	61 - 114		
Fluoranthene	206-44-0	MSD	16100	27200	2450	NC	61 - 114	RPD 13.80 (Max-21)	
Fluorene	86-73-7	MS	3870	2490	2400	57*	62 - 107		
Fluorene	86-73-7	MSD	3440	2490	2450	38.6*	62 - 107	RPD 11.60 (Max-16)	
Hexachlorobenzene	118-74-1	MS	1890	0	2400	78.5	56 - 111		
Hexachlorobenzene	118-74-1	MSD	1990	0	2450	81	56 - 111	RPD 5.16 (Max-21)	
Hexachlorobutadiene	87-68-3	MS	1920	33.60	2400	78.6	56 - 127		
Hexachlorobutadiene	87-68-3	MSD	2200	33.60	2450	88.4	56 - 127	RPD 13.50 (Max-22)	
Hexachlorocyclopentadiene	77-47-4	MS	179	0	2400	7.43*	20 - 124		J
Hexachlorocyclopentadiene	77-47-4	MSD	189	0	2450	7.7*	20 - 124	RPD 5.41 (Max-29)	J
Hexachloroethane	67-72-1	MS	1320	0	2400	54.9*	57 - 101		
Hexachloroethane	67-72-1	MSD	1510	0	2450	61.5	57 - 101	RPD 13.40 (Max-28)	
Indeno(1,2,3-cd)pyrene	193-39-5	MS	7480	7180	2400	12.3*	53 - 118		
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	6090	7180	2450	-44.4*	53 - 118	RPD 20.40 (Max-30)	
Isophorone	78-59-1	MS	1730	0	2400	72	41 - 101		
Isophorone	78-59-1	MSD	1930	0	2450	78.7	41 - 101	RPD 10.90 (Max-19)	
mp-Cresol	108394/106445	MS	4080	71.80	4810	83.3	60 - 109		
mp-Cresol	108394/106445	MSD	4460	71.80	4900	89.6	60 - 109	RPD 9.04 (Max-20)	
Naphthalene	91-20-3	MS	2650	1540	2400	45.9*	60 - 102		
Naphthalene	91-20-3	MSD	2790	1540	2450	50.8*	60 - 102	RPD 5.20 (Max-21)	
Nitrobenzene	98-95-3	MS	1720	0	2400	71.4	52 - 113		
Nitrobenzene	98-95-3	MSD	2010	0	2450	81.9	52 - 113	RPD 15.60 (Max-20)	
N-Nitroso-di-n-propylamine	621-64-7	MS	1740	0	2400	72.3	50 - 121		
N-Nitroso-di-n-propylamine	621-64-7	MSD	1960	0	2450	79.9	50 - 121	RPD 11.80 (Max-20)	
N-Nitrosodiphenylamine	86-30-6	MS	2240	0	2400	93.2	73 - 129		
N-Nitrosodiphenylamine	86-30-6	MSD	2330	0	2450	94.9	73 - 129	RPD 3.70 (Max-21)	
o-Cresol	95-48-7	MS	3760	0	4810	78.3	61 - 108		
o-Cresol	95-48-7	MSD	4150	0	4900	84.7	61 - 108	RPD 9.85 (Max-21)	
Pentachlorophenol	87-86-5	MS	3360	0	4810	69.9	46 - 138		
Pentachlorophenol	87-86-5	MSD	3780	0	4900	77.1	46 - 138	RPD 11.80 (Max-25)	
Phenanthrene	85-01-8	MS	10200	10600	2400	NC	61 - 106		
Phenanthrene	85-01-8	MSD	7480	10600	2450	NC	61 - 106	RPD 30.60* (Max-20)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Phenol	108-95-2	MS	3730	0	4810	77.6	57 - 110		
Phenol	108-95-2	MSD	4240	0	4900	86.4	57 - 110	RPD 12.70 (Max-23)	
Pyrene	129-00-0	MS	15800	21600	2400	NC	62 - 117		
Pyrene	129-00-0	MSD	12400	21600	2450	NC	62 - 117	RPD 23.90* (Max-20)	

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	4610	4810	96	19 - 132	
2,4,6-Tribromophenol	118-79-6	MSD	4760	4900	97.1	19 - 132	
2-Fluorobiphenyl	321-60-8	MS	1900	2400	79.1	40 - 110	
2-Fluorobiphenyl	321-60-8	MSD	2050	2450	83.5	40 - 110	
2-Fluorophenol	367-12-4	MS	3370	4810	70	26 - 116	
2-Fluorophenol	367-12-4	MSD	4040	4900	82.5	26 - 116	
Nitrobenzene-d5	4165-60-0	MS	1880	2400	78.2	38 - 112	
Nitrobenzene-d5	4165-60-0	MSD	2220	2450	90.6	38 - 112	
Phenol-d5	4165-62-2	MS	3600	4810	74.8	35 - 111	
Phenol-d5	4165-62-2	MSD	4110	4900	83.8	35 - 111	
Terphenyl-d14	98904-43-9	MS	2370	2400	98.5	45 - 126	
Terphenyl-d14	98904-43-9	MSD	2490	2450	102	45 - 126	

Method Blank 3906150 (MB) Created on 11/15/2024 15:42 For QC Batch 1333043

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4330	5000	86.6	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	1840	2500	73.8	40 - 110	
2-Fluorophenol	367-12-4	BLK	3680	5000	73.7	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	1960	2500	78.5	38 - 112	
Phenol-d5	4165-62-2	BLK	3660	5000	73.3	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2410	2500	96.4	45 - 126	

Lab Control Standard 3906151 (LCS) Created on 11/15/2024 15:42 For QC Batch 1333043

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1920		2500	76.9	51 - 102		
1,4-Dioxane	123-91-1	LCS	1700		2500	68	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	4810		5000	96.2	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4880		5000	97.7	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4810		5000	96.2	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4650		5000	93.1	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	5300		5000	106	59 - 133		
2,4-Dinitrophenol	51-28-5	LCS	4100		5000	82.1	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2550		2500	102	62 - 115		
2,6-Dinitrotoluene	606-20-2	LCS	2410		2500	96.3	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	2040		2500	81.7	59 - 104		
2-Chlorophenol	95-57-8	LCS	4470		5000	89.4	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4980		5000	99.6	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	2030		2500	81.2	59 - 108		
2-Nitroaniline	88-74-4	LCS	2440		2500	97.6	60 - 115		
2-Nitrophenol	88-75-5	LCS	5140		5000	103	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3790		5000	75.8	25 - 104		
3-Nitroaniline	99-09-2	LCS	2480		2500	99.2	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	1940		2500	77.7	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	4690		5000	93.8	59 - 115		
4-Chloroaniline	106-47-8	LCS	1930		2500	77.2	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	2210		2500	88.4	59 - 107		
4-Nitroaniline	100-01-6	LCS	2460		2500	98.2	49 - 121		
4-Nitrophenol	100-02-7	LCS	5040		5000	101	53 - 124		
Acenaphthene	83-32-9	LCS	2090		2500	83.8	61 - 105		
Acenaphthylene	208-96-8	LCS	1790		2500	71.6	63 - 106		
Acetophenone	98-86-2	LCS	1880		2500	75.1	33 - 98		
Anthracene	120-12-7	LCS	2160		2500	86.4	60 - 107		
Atrazine	1912-24-9	LCS	2330		2500	93	62 - 116		
Benzaldehyde	100-52-7	LCS	2290		2500	91.6	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2180		2500	87.2	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2210		2500	88.3	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2170		2500	86.9	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	2430		2500	97.1	57 - 119		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzo(k)fluoranthene	207-08-9	LCS	2190		2500	87.6	63 - 116		
Biphenyl	92-52-4	LCS	1910		2500	76.5	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	2170		2500	86.6	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	1960		2500	78.2	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	1920		2500	77	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	2440		2500	97.7	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	2300		2500	91.8	58 - 125		
Caprolactam	105-60-2	LCS	2340		2500	93.7	51 - 119		
Carbazole	86-74-8	LCS	2160		2500	86.5	66 - 117		
Chrysene	218-01-9	LCS	2230		2500	89	65 - 113		
Dibenzo(a,h)anthracene	53-70-3	LCS	2390		2500	95.5	59 - 116		
Dibenzofuran	132-64-9	LCS	2040		2500	81.6	62 - 106		
Diethylphthalate	84-66-2	LCS	2280		2500	91.1	59 - 112		
Dimethylphthalate	131-11-3	LCS	2160		2500	86.5	60 - 111		
Di-n-Butylphthalate	84-74-2	LCS	2260		2500	90.4	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	2630		2500	105	47 - 134		
Fluoranthene	206-44-0	LCS	2210		2500	88.4	61 - 114		
Fluorene	86-73-7	LCS	2130		2500	85.4	62 - 107		
Hexachlorobenzene	118-74-1	LCS	2040		2500	81.5	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2220		2500	88.7	56 - 127		
Hexachlorocyclopentadiene	77-47-4	LCS	1520		2500	60.9	20 - 124		
Hexachloroethane	67-72-1	LCS	1900		2500	76.1	57 - 101		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	2260		2500	90.4	53 - 118		
Isophorone	78-59-1	LCS	2000		2500	79.9	41 - 101		
mp-Cresol	108394/106445	LCS	4690		5000	93.9	60 - 109		
Naphthalene	91-20-3	LCS	1990		2500	79.4	60 - 102		
Nitrobenzene	98-95-3	LCS	2110		2500	84.5	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	2020		2500	80.6	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2420		2500	96.8	73 - 129		
o-Cresol	95-48-7	LCS	4440		5000	88.7	61 - 108		
Pentachlorophenol	87-86-5	LCS	4230		5000	84.6	46 - 138		
Phenanthrene	85-01-8	LCS	2070		2500	82.8	61 - 106		
Phenol	108-95-2	LCS	4520		5000	90.4	57 - 110		
Pyrene	129-00-0	LCS	2050		2500	82.1	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	5020	5000	100	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	2190	2500	87.6	40 - 110	
2-Fluorophenol	367-12-4	LCS	4400	5000	88.1	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2380	2500	95.1	38 - 112	
Phenol-d5	4165-62-2	LCS	4390	5000	87.9	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2560	2500	102	45 - 126	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

QC Batch

QC Batch	1333045	Prep Method	SW846 3546
Date	11/17/2024 19:30	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3387696002	3387696003	3387696004	3387696005
3387696006	3387696007		

Method Blank 3906158 (MB) Created on 11/15/2024 15:49 For QC Batch 1333045

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4230	5000	84.5	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	2170	2500	86.6	40 - 110	
2-Fluorophenol	367-12-4	BLK	4590	5000	91.8	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	2350	2500	94	38 - 112	
Phenol-d5	4165-62-2	BLK	5450	5000	109	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2720	2500	109	45 - 126	

Lab Control Standard 3906159 (LCS) Created on 11/15/2024 15:49 For QC Batch 1333045

RESULTS

Compound	CAS No	Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1760		2500	70.5	51 - 102		
1,4-Dioxane	123-91-1	LCS	2040		2500	81.6	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	4490		5000	89.9	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4480		5000	89.7	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4290		5000	85.8	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4370		5000	87.4	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	5260		5000	105	59 - 133		
2,4-Dinitrophenol	51-28-5	LCS	4340		5000	86.7	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2200		2500	88	62 - 115		
2,6-Dinitrotoluene	606-20-2	LCS	2280		2500	91.2	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	2000		2500	80	59 - 104		
2-Chlorophenol	95-57-8	LCS	4860		5000	97.1	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4850		5000	96.9	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	2120		2500	85	59 - 108		
2-Nitroaniline	88-74-4	LCS	2250		2500	90.1	60 - 115		
2-Nitrophenol	88-75-5	LCS	4340		5000	86.8	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3660		5000	73.3	25 - 104		
3-Nitroaniline	99-09-2	LCS	2520		2500	101	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	2140		2500	85.5	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	5490		5000	110	59 - 115		
4-Chloroaniline	106-47-8	LCS	2110		2500	84.4	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	2140		2500	85.6	59 - 107		
4-Nitroaniline	100-01-6	LCS	2450		2500	98.1	49 - 121		
4-Nitrophenol	100-02-7	LCS	6360		5000	127*	53 - 124		
Acenaphthene	83-32-9	LCS	2130		2500	85.2	61 - 105		
Acenaphthylene	208-96-8	LCS	1790		2500	71.6	63 - 106		
Acetophenone	98-86-2	LCS	2360		2500	94.6	33 - 98		
Anthracene	120-12-7	LCS	2210		2500	88.5	60 - 107		
Atrazine	1912-24-9	LCS	2270		2500	90.7	62 - 116		
Benzaldehyde	100-52-7	LCS	2410		2500	96.4	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2250		2500	89.9	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2250		2500	89.9	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2270		2500	90.7	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	2160		2500	86.2	57 - 119		
Benzo(k)fluoranthene	207-08-9	LCS	2320		2500	92.9	63 - 116		
Biphenyl	92-52-4	LCS	1870		2500	74.8	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	2470		2500	98.6	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	2680		2500	107	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	2460		2500	98.2	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	2280		2500	91.2	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	2390		2500	95.4	58 - 125		
Caprolactam	105-60-2	LCS	2570		2500	103	51 - 119		
Carbazole	86-74-8	LCS	2380		2500	95.2	66 - 117		
Chrysene	218-01-9	LCS	2260		2500	90.4	65 - 113		
Dibenzo(a,h)anthracene	53-70-3	LCS	2130		2500	85.1	59 - 116		
Dibenzofuran	132-64-9	LCS	2090		2500	83.7	62 - 106		
Diethylphthalate	84-66-2	LCS	2430		2500	97.2	59 - 112		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dimethylphthalate	131-11-3	LCS	2150		2500	85.8	60 - 111		
Di-n-Butylphthalate	84-74-2	LCS	2360		2500	94.5	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	2390		2500	95.7	47 - 134		
Fluoranthene	206-44-0	LCS	2270		2500	91	61 - 114		
Fluorene	86-73-7	LCS	2190		2500	87.8	62 - 107		
Hexachlorobenzene	118-74-1	LCS	2050		2500	82	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2120		2500	85	56 - 127		
Hexachlorocyclopentadiene	77-47-4	LCS	1310		2500	52.3	20 - 124		
Hexachloroethane	67-72-1	LCS	2150		2500	85.9	57 - 101		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	2010		2500	80.5	53 - 118		
Isophorone	78-59-1	LCS	2520		2500	101	41 - 101		
mp-Cresol	108394/106445	LCS	5640		5000	113*	60 - 109		
Naphthalene	91-20-3	LCS	2030		2500	81.2	60 - 102		
Nitrobenzene	98-95-3	LCS	2330		2500	93.3	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	2830		2500	113	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2480		2500	99.3	73 - 129		
o-Cresol	95-48-7	LCS	5380		5000	108	61 - 108		
Pentachlorophenol	87-86-5	LCS	4800		5000	96	46 - 138		
Phenanthrene	85-01-8	LCS	2210		2500	88.3	61 - 106		
Phenol	108-95-2	LCS	5030		5000	101	57 - 110		
Pyrene	129-00-0	LCS	2210		2500	88.6	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	4640	5000	92.9	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	2080	2500	83.3	40 - 110	
2-Fluorophenol	367-12-4	LCS	4660	5000	93.3	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2250	2500	90.1	38 - 112	
Phenol-d5	4165-62-2	LCS	5370	5000	107	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2760	2500	110	45 - 126	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1333060	Prep Method	SW846 5035A
Date	11/13/2024 10:45	Analysis Method	SW846 8260D
Tech.	BST		

Associated Samples

3387696004

Matrix Spike 3906191 (MS) 3387655001 (non-Project Sample) For QC Batch 1333060

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3906192 (MSD) 3387655001 (non-Project Sample) For QC Batch 1333060

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	1240	0	1030	120	69 - 136		
1,1,1-Trichloroethane	71-55-6	MSD	1270	0	1030	123	69 - 136	RPD 2.54 (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	1070	0	1030	104	69 - 125		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	1080	0	1030	105	69 - 125	RPD 0.97 (Max-40)	
1,1,2-Trichloroethane	79-00-5	MS	1170	0	1030	114	70 - 128		
1,1,2-Trichloroethane	79-00-5	MSD	1220	0	1030	118	70 - 128	RPD 3.62 (Max-40)	
1,1-Dichloroethane	75-34-3	MS	1150	0	1030	112	68 - 137		
1,1-Dichloroethane	75-34-3	MSD	1190	0	1030	115	68 - 137	RPD 3.10 (Max-40)	
1,1-Dichloroethene	75-35-4	MS	1200	0	1030	116	62 - 135		
1,1-Dichloroethene	75-35-4	MSD	1220	0	1030	118	62 - 135	RPD 1.80 (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	MS	1060	31.30	1030	100	41 - 143		
1,2,3-Trichlorobenzene	87-61-6	MSD	1120	31.30	1030	105	41 - 143	RPD 4.92 (Max-40)	
1,2,3-Trichloropropane	96-18-4	MS	1060	0	1030	103	63 - 133		
1,2,3-Trichloropropane	96-18-4	MSD	1070	0	1030	104	63 - 133	RPD 1.20 (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	MS	1210	0	1030	118	61 - 134		
1,2,4-Trichlorobenzene	120-82-1	MSD	1270	0	1030	123	61 - 134	RPD 4.64 (Max-40)	
1,2,4-Trimethylbenzene	95-63-6	MS	1160	0	1030	112	75 - 134		
1,2,4-Trimethylbenzene	95-63-6	MSD	1200	0	1030	116	75 - 134	RPD 3.48 (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	836	0	1030	81.1	37 - 131		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	848	0	1030	82.2	37 - 131	RPD 1.43 (Max-40)	
1,2-Dibromoethane	106-93-4	MS	1160	0	1030	112	69 - 130		
1,2-Dibromoethane	106-93-4	MSD	1190	0	1030	115	69 - 130	RPD 2.65 (Max-40)	
1,2-Dichlorobenzene	95-50-1	MS	1120	0	1030	109	73 - 127		
1,2-Dichlorobenzene	95-50-1	MSD	1170	0	1030	113	73 - 127	RPD 3.61 (Max-40)	
1,2-Dichloroethane	107-06-2	MS	1090	0	1030	106	62 - 139		
1,2-Dichloroethane	107-06-2	MSD	1130	0	1030	109	62 - 139	RPD 3.49 (Max-40)	
1,2-Dichloroethene, Total	540-59-0	MS	2360	0	2060	114	68 - 137		
1,2-Dichloroethene, Total	540-59-0	MSD	2410	0	2060	117	68 - 137	RPD 2.50 (Max-)	
1,2-Dichloropropane	78-87-5	MS	1170	0	1030	113	77 - 133		
1,2-Dichloropropane	78-87-5	MSD	1180	0	1030	115	77 - 133	RPD 1.33 (Max-40)	
1,3,5-Trimethylbenzene	108-67-8	MS	1210	11.60	1030	116	74 - 137		
1,3,5-Trimethylbenzene	108-67-8	MSD	1240	11.60	1030	120	74 - 137	RPD 2.69 (Max-40)	
1,3-Dichlorobenzene	541-73-1	MS	1150	0	1030	111	73 - 130		
1,3-Dichlorobenzene	541-73-1	MSD	1190	0	1030	115	73 - 130	RPD 3.29 (Max-40)	
1,4-Dichlorobenzene	106-46-7	MS	1140	0	1030	110	74 - 127		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dichlorobenzene	106-46-7	MSD	1170	0	1030	114	74 - 127	RPD 2.94 (Max-40)	
2-Butanone	78-93-3	MS	5990	0	5150	116	51 - 151		
2-Butanone	78-93-3	MSD	6180	0	5150	120	51 - 151	RPD 2.98 (Max-40)	
2-Hexanone	591-78-6	MS	4960	0	5150	96.1	66 - 133		
2-Hexanone	591-78-6	MSD	5110	0	5150	99	66 - 133	RPD 2.98 (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	5750	0	5150	112	70 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	5850	0	5150	113	70 - 130	RPD 1.66 (Max-40)	
Acetone	67-64-1	MS	6230	0	5150	121	42 - 154		
Acetone	67-64-1	MSD	6380	0	5150	124	42 - 154	RPD 2.39 (Max-40)	
Benzene	71-43-2	MS	1200	28.80	1030	114	77 - 134		
Benzene	71-43-2	MSD	1230	28.80	1030	116	77 - 134	RPD 2.35 (Max-40)	
Bromochloromethane	74-97-5	MS	1230	0	1030	119	70 - 124		
Bromochloromethane	74-97-5	MSD	1230	0	1030	119	70 - 124	RPD 0.07 (Max-40)	
Bromodichloromethane	75-27-4	MS	982	0	1030	95.3	73 - 133		
Bromodichloromethane	75-27-4	MSD	1030	0	1030	100	73 - 133	RPD 5.02 (Max-40)	
Bromoform	75-25-2	MS	954	0	1030	92.5	62 - 118		
Bromoform	75-25-2	MSD	965	0	1030	93.6	62 - 118	RPD 1.22 (Max-40)	
Bromomethane	74-83-9	MS	708	44.40	1030	64.3	41 - 143		
Bromomethane	74-83-9	MSD	712	44.40	1030	64.7	41 - 143	RPD 0.58 (Max-40)	
Carbon Disulfide	75-15-0	MS	954	0	1030	92.6	48 - 145		
Carbon Disulfide	75-15-0	MSD	1020	0	1030	99.1	48 - 145	RPD 6.81 (Max-40)	
Carbon Tetrachloride	56-23-5	MS	863	0	1030	83.7	64 - 139		
Carbon Tetrachloride	56-23-5	MSD	885	0	1030	85.8	64 - 139	RPD 2.49 (Max-40)	
Chlorobenzene	108-90-7	MS	1200	0	1030	116	76 - 130		
Chlorobenzene	108-90-7	MSD	1220	0	1030	119	76 - 130	RPD 2.02 (Max-40)	
Chlorodibromomethane	124-48-1	MS	975	0	1030	94.6	69 - 122		
Chlorodibromomethane	124-48-1	MSD	995	0	1030	96.5	69 - 122	RPD 1.96 (Max-40)	
Chloroethane	75-00-3	MS	309	0	1030	29.9	14 - 152		
Chloroethane	75-00-3	MSD	300	0	1030	29.1	14 - 152	RPD 2.84 (Max-40)	
Chloroform	67-66-3	MS	1160	0	1030	113	75 - 127		
Chloroform	67-66-3	MSD	1200	0	1030	116	75 - 127	RPD 3.05 (Max-40)	
Chloromethane	74-87-3	MS	1180	11.60	1030	114	31 - 167		
Chloromethane	74-87-3	MSD	1190	11.60	1030	114	31 - 167	RPD 0.27 (Max-40)	
cis-1,2-Dichloroethene	156-59-2	MS	1170	0	1030	114	68 - 137		
cis-1,2-Dichloroethene	156-59-2	MSD	1200	0	1030	117	68 - 137	RPD 2.53 (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	MS	936	0	1030	90.8	70 - 129		
cis-1,3-Dichloropropene	10061-01-5	MSD	957	0	1030	92.9	70 - 129	RPD 2.29 (Max-40)	
Cyclohexane	110-82-7	MS	1320	0	1030	128	63 - 151		
Cyclohexane	110-82-7	MSD	1350	0	1030	131	63 - 151	RPD 2.21 (Max-40)	
Dichlorodifluoromethane	75-71-8	MS	1070	0	1030	104	10 - 180		
Dichlorodifluoromethane	75-71-8	MSD	1050	0	1030	102	10 - 180	RPD 1.30 (Max-40)	
Ethylbenzene	100-41-4	MS	1260	0	1030	122	76 - 136		
Ethylbenzene	100-41-4	MSD	1280	0	1030	124	76 - 136	RPD 1.48 (Max-40)	
Freon 113	76-13-1	MS	1310	0	1030	127*	42 - 109		
Freon 113	76-13-1	MSD	1370	0	1030	132*	42 - 109	RPD 4.49 (Max-40)	
Isopropylbenzene	98-82-8	MS	1350	6.20	1030	131	72 - 137		
Isopropylbenzene	98-82-8	MSD	1390	6.20	1030	134	72 - 137	RPD 2.51 (Max-40)	
Methyl acetate	79-20-9	MS	1170	61.60	1030	107	70 - 130		
Methyl acetate	79-20-9	MSD	1200	61.60	1030	110	70 - 130	RPD 2.66 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl cyclohexane	108-87-2	MS	1320	30.80	1030	125	70 - 130		
Methyl cyclohexane	108-87-2	MSD	1390	30.80	1030	132*	70 - 130	RPD 4.77 (Max-40)	
Methyl t-Butyl Ether	1634-04-4	MS	1150	0	1030	111	65 - 120		
Methyl t-Butyl Ether	1634-04-4	MSD	1170	0	1030	113	65 - 120	RPD 1.52 (Max-40)	
Methylene Chloride	75-09-2	MS	1190	48.40	1030	111	73 - 129		
Methylene Chloride	75-09-2	MSD	1190	48.40	1030	111	73 - 129	RPD 0.08 (Max-40)	
mp-Xylene	108383/106423	MS	2490	15.70	2060	120	75 - 137		
mp-Xylene	108383/106423	MSD	2570	15.70	2060	124	75 - 137	RPD 3.13 (Max-40)	
o-Xylene	95-47-6	MS	1270	0	1030	123	74 - 135		
o-Xylene	95-47-6	MSD	1300	0	1030	126	74 - 135	RPD 2.46 (Max-40)	
Styrene	100-42-5	MS	1140	0	1030	111	72 - 134		
Styrene	100-42-5	MSD	1150	0	1030	111	72 - 134	RPD 0.75 (Max-40)	
Tetrachloroethene	127-18-4	MS	1250	0	1030	121	73 - 134		
Tetrachloroethene	127-18-4	MSD	1320	0	1030	128	73 - 134	RPD 5.37 (Max-40)	
Toluene	108-88-3	MS	1220	21.70	1030	116	73 - 134		
Toluene	108-88-3	MSD	1240	21.70	1030	118	73 - 134	RPD 1.68 (Max-40)	
Total Xylenes	1330-20-7	MS	3760	0	3090	122	75 - 136		
Total Xylenes	1330-20-7	MSD	3870	0	3090	125	75 - 136	RPD 2.91 (Max-40)	
trans-1,2-Dichloroethene	156-60-5	MS	1180	0	1030	114	69 - 130		
trans-1,2-Dichloroethene	156-60-5	MSD	1210	0	1030	117	69 - 130	RPD 2.48 (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	MS	995	0	1030	96.5	67 - 129		
trans-1,3-Dichloropropene	10061-02-6	MSD	1030	0	1030	99.8	67 - 129	RPD 3.29 (Max-40)	
Trichloroethene	79-01-6	MS	1210	0	1030	118	77 - 134		
Trichloroethene	79-01-6	MSD	1220	0	1030	118	77 - 134	RPD 0.73 (Max-40)	
Trichlorofluoromethane	75-69-4	MS	287	0	1030	27.8	27 - 121		
Trichlorofluoromethane	75-69-4	MSD	306	0	1030	29.6	27 - 121	RPD 6.33 (Max-40)	
Vinyl Chloride	75-01-4	MS	1160	0	1030	112	5 - 200		
Vinyl Chloride	75-01-4	MSD	1160	0	1030	112	5 - 200	RPD 0.08 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	1470	1550	94.9	71 - 146	
1,2-Dichloroethane-d4	17060-07-0	MSD	1460	1550	94.7	71 - 146	
4-Bromofluorobenzene	460-00-4	MS	1550	1550	100	46 - 138	
4-Bromofluorobenzene	460-00-4	MSD	1520	1550	98.2	46 - 138	
Dibromofluoromethane	1868-53-7	MS	1490	1550	96.2	42 - 143	
Dibromofluoromethane	1868-53-7	MSD	1500	1550	97.1	42 - 143	
Toluene-d8	2037-26-5	MS	1530	1550	98.9	54 - 141	
Toluene-d8	2037-26-5	MSD	1510	1550	97.7	54 - 141	

Method Blank 3906189 (MB) Created on 11/15/2024 18:56 For QC Batch 1333060

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	50.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	50.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	100	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	100	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	46.9J	ug/kg	100	J
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	50.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	350	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	50.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	100	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	50.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	11.5J	ug/kg	50.0	J
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	50.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	50.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	500	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	250	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	250	ND
Acetone	67-64-1	BLK	ND	ug/kg	500	ND
Benzene	71-43-2	BLK	ND	ug/kg	50.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	50.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	50.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	50.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	50.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	50.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	50.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	50.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	50.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	50.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	50.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	50.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	50.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	50.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	50.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	50.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	50.0	ND
Freon 113	76-13-1	BLK	ND	ug/kg	50.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	50.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	100	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	50.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	50.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	50.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/kg	100	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	50.0	ND
Styrene	100-42-5	BLK	ND	ug/kg	50.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Toluene	108-88-3	BLK	ND	ug/kg	50.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	150	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	50.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	50.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	50.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	50.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	1370	1500	91.1	71 - 146	
4-Bromofluorobenzene	460-00-4	BLK	1470	1500	97.8	46 - 138	
Dibromofluoromethane	1868-53-7	BLK	1390	1500	92.5	42 - 143	
Toluene-d8	2037-26-5	BLK	1460	1500	97.2	54 - 141	

Lab Control Standard 3906190 (LCS) Created on 11/15/2024 18:56 For QC Batch 1333060

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	970		1000	97	69 - 136		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	1070		1000	107	69 - 125		
1,1,2-Trichloroethane	79-00-5	LCS	1100		1000	110	70 - 128		
1,1-Dichloroethane	75-34-3	LCS	978		1000	97.8	68 - 137		
1,1-Dichloroethene	75-35-4	LCS	924		1000	92.4	62 - 135		
1,2,3-Trichlorobenzene	87-61-6	LCS	1130		1000	113	41 - 143		
1,2,3-Trichloropropane	96-18-4	LCS	1060		1000	106	63 - 133		
1,2,4-Trichlorobenzene	120-82-1	LCS	1260		1000	126	61 - 134		
1,2,4-Trimethylbenzene	95-63-6	LCS	1070		1000	107	75 - 134		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	879		1000	87.9	37 - 131		
1,2-Dibromoethane	106-93-4	LCS	1120		1000	112	69 - 130		
1,2-Dichlorobenzene	95-50-1	LCS	1080		1000	108	73 - 127		
1,2-Dichloroethane	107-06-2	LCS	1000		1000	100	62 - 139		
1,2-Dichloroethene, Total	540-59-0	LCS	1980		2000	98.8	68 - 137		
1,2-Dichloropropane	78-87-5	LCS	1030		1000	103	77 - 133		
1,3,5-Trimethylbenzene	108-67-8	LCS	1090		1000	109	74 - 137		
1,3-Dichlorobenzene	541-73-1	LCS	1080		1000	108	73 - 130		
1,4-Dichlorobenzene	106-46-7	LCS	1080		1000	108	74 - 127		
2-Butanone	78-93-3	LCS	5790		5000	116	51 - 151		
2-Hexanone	591-78-6	LCS	4990		5000	99.8	66 - 133		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	5710		5000	114	70 - 130		
Acetone	67-64-1	LCS	6510		5000	130	42 - 154		
Benzene	71-43-2	LCS	976		1000	97.6	77 - 134		
Bromochloromethane	74-97-5	LCS	1150		1000	115	70 - 124		
Bromodichloromethane	75-27-4	LCS	969		1000	96.9	73 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromoform	75-25-2	LCS	1040		1000	104	62 - 118		
Bromomethane	74-83-9	LCS	924		1000	92.4	41 - 143		
Carbon Disulfide	75-15-0	LCS	898		1000	89.8	48 - 145		
Carbon Tetrachloride	56-23-5	LCS	720		1000	72	64 - 139		
Chlorobenzene	108-90-7	LCS	1060		1000	106	76 - 130		
Chlorodibromomethane	124-48-1	LCS	992		1000	99.2	69 - 122		
Chloroethane	75-00-3	LCS	669		1000	66.9	14 - 152		
Chloroform	67-66-3	LCS	999		1000	99.9	75 - 127		
Chloromethane	74-87-3	LCS	926		1000	92.6	31 - 167		
cis-1,2-Dichloroethene	156-59-2	LCS	1010		1000	101	68 - 137		
cis-1,3-Dichloropropene	10061-01-5	LCS	905		1000	90.5	70 - 129		
Cyclohexane	110-82-7	LCS	920		1000	92	63 - 151		
Dichlorodifluoromethane	75-71-8	LCS	729		1000	72.9	10 - 180		
Ethylbenzene	100-41-4	LCS	1070		1000	107	76 - 136		
Freon 113	76-13-1	LCS	953		1000	95.3	42 - 109		
Isopropylbenzene	98-82-8	LCS	1140		1000	114	72 - 137		
Methyl acetate	79-20-9	LCS	1130		1000	113	70 - 130		
Methyl cyclohexane	108-87-2	LCS	973		1000	97.3	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	1090		1000	109	65 - 120		
Methylene Chloride	75-09-2	LCS	1030		1000	103	73 - 129		
mp-Xylene	108383/106423	LCS	2130		2000	106	75 - 137		
o-Xylene	95-47-6	LCS	1110		1000	111	74 - 135		
Styrene	100-42-5	LCS	1000		1000	100	72 - 134		
Tetrachloroethene	127-18-4	LCS	928		1000	92.8	73 - 134		
Toluene	108-88-3	LCS	1010		1000	101	73 - 134		
Total Xylenes	1330-20-7	LCS	3240		3000	108	75 - 136		
trans-1,2-Dichloroethene	156-60-5	LCS	966		1000	96.6	69 - 130		
trans-1,3-Dichloropropene	10061-02-6	LCS	985		1000	98.5	67 - 129		
Trichloroethene	79-01-6	LCS	995		1000	99.5	77 - 134		
Trichlorofluoromethane	75-69-4	LCS	812		1000	81.2	27 - 121		
Vinyl Chloride	75-01-4	LCS	887		1000	88.7	5 - 200		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	1350	1500	90	71 - 146	
4-Bromofluorobenzene	460-00-4	LCS	1440	1500	96.3	46 - 138	
Dibromofluoromethane	1868-53-7	LCS	1500	1500	99.8	42 - 143	
Toluene-d8	2037-26-5	LCS	1450	1500	96.8	54 - 141	

QC Batch

QC Batch	1334606	Prep Method	SW846 5035A
Date	11/16/2024 09:45	Analysis Method	SW846 8260D
Tech.	VLM		

Associated Samples

3387696007

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Method Blank 3906963 (MB) Created on 11/18/2024 16:12 For QC Batch 1334606

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	50.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	50.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	50.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	100	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	100	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	48.4J	ug/kg	100	J
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	50.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	350	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	50.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	100	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	50.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	12.6J	ug/kg	50.0	J
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	50.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	50.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	500	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	250	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	250	ND
Acetone	67-64-1	BLK	ND	ug/kg	500	ND
Benzene	71-43-2	BLK	ND	ug/kg	50.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	50.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	50.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	50.0	ND
Bromomethane	74-83-9	BLK	21.7J	ug/kg	50.0	J
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	50.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	50.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	50.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	50.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	50.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	50.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	50.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	50.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	50.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	50.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	50.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	50.0	ND
Freon 113	76-13-1	BLK	ND	ug/kg	50.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	50.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	100	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	50.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	50.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
mp-Xylene	108383/106423	BLK	ND	ug/kg	100	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	50.0	ND
Styrene	100-42-5	BLK	ND	ug/kg	50.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	50.0	ND
Toluene	108-88-3	BLK	ND	ug/kg	50.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	150	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	50.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	50.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	50.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	50.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	1400	1500	93.1	71 - 146	
4-Bromofluorobenzene	460-00-4	BLK	1470	1500	97.8	46 - 138	
Dibromofluoromethane	1868-53-7	BLK	1400	1500	93.2	42 - 143	
Toluene-d8	2037-26-5	BLK	1450	1500	96.8	54 - 141	

Lab Control Standard 3906964 (LCS) Created on 11/18/2024 16:13 For QC Batch 1334606

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	959		1000	95.9	69 - 136		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	1070		1000	107	69 - 125		
1,1,2-Trichloroethane	79-00-5	LCS	1110		1000	111	70 - 128		
1,1-Dichloroethane	75-34-3	LCS	990		1000	99	68 - 137		
1,1-Dichloroethene	75-35-4	LCS	935		1000	93.5	62 - 135		
1,2,3-Trichlorobenzene	87-61-6	LCS	1030		1000	103	41 - 143		
1,2,3-Trichloropropane	96-18-4	LCS	1080		1000	108	63 - 133		
1,2,4-Trichlorobenzene	120-82-1	LCS	1070		1000	107	61 - 134		
1,2,4-Trimethylbenzene	95-63-6	LCS	945		1000	94.5	75 - 134		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	920		1000	92	37 - 131		
1,2-Dibromoethane	106-93-4	LCS	1110		1000	111	69 - 130		
1,2-Dichlorobenzene	95-50-1	LCS	1030		1000	103	73 - 127		
1,2-Dichloroethane	107-06-2	LCS	1020		1000	102	62 - 139		
1,2-Dichloroethene, Total	540-59-0	LCS	1940		2000	97.1	68 - 137		
1,2-Dichloropropane	78-87-5	LCS	1010		1000	101	77 - 133		
1,3,5-Trimethylbenzene	108-67-8	LCS	962		1000	96.2	74 - 137		
1,3-Dichlorobenzene	541-73-1	LCS	991		1000	99.1	73 - 130		
1,4-Dichlorobenzene	106-46-7	LCS	984		1000	98.4	74 - 127		
2-Butanone	78-93-3	LCS	5680		5000	114	51 - 151		
2-Hexanone	591-78-6	LCS	5320		5000	106	66 - 133		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	6040		5000	121	70 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Acetone	67-64-1	LCS	5920		5000	118	42 - 154		
Benzene	71-43-2	LCS	968		1000	96.8	77 - 134		
Bromochloromethane	74-97-5	LCS	1160		1000	116	70 - 124		
Bromodichloromethane	75-27-4	LCS	973		1000	97.3	73 - 133		
Bromoform	75-25-2	LCS	1030		1000	103	62 - 118		
Bromomethane	74-83-9	LCS	817		1000	81.7	41 - 143		
Carbon Disulfide	75-15-0	LCS	843		1000	84.3	48 - 145		
Carbon Tetrachloride	56-23-5	LCS	726		1000	72.6	64 - 139		
Chlorobenzene	108-90-7	LCS	999		1000	99.9	76 - 130		
Chlorodibromomethane	124-48-1	LCS	979		1000	97.9	69 - 122		
Chloroethane	75-00-3	LCS	579		1000	57.9	14 - 152		
Chloroform	67-66-3	LCS	1030		1000	103	75 - 127		
Chloromethane	74-87-3	LCS	879		1000	87.9	31 - 167		
cis-1,2-Dichloroethene	156-59-2	LCS	1010		1000	101	68 - 137		
cis-1,3-Dichloropropene	10061-01-5	LCS	792		1000	79.2	70 - 129		
Cyclohexane	110-82-7	LCS	885		1000	88.5	63 - 151		
Dichlorodifluoromethane	75-71-8	LCS	683		1000	68.3	10 - 180		
Ethylbenzene	100-41-4	LCS	985		1000	98.5	76 - 136		
Freon 113	76-13-1	LCS	889		1000	88.9	42 - 109		
Isopropylbenzene	98-82-8	LCS	1030		1000	103	72 - 137		
Methyl acetate	79-20-9	LCS	1170		1000	117	70 - 130		
Methyl cyclohexane	108-87-2	LCS	814		1000	81.4	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	1130		1000	113	65 - 120		
Methylene Chloride	75-09-2	LCS	1040		1000	104	73 - 129		
mp-Xylene	108383/106423	LCS	1960		2000	97.9	75 - 137		
o-Xylene	95-47-6	LCS	1030		1000	103	74 - 135		
Styrene	100-42-5	LCS	959		1000	95.9	72 - 134		
Tetrachloroethene	127-18-4	LCS	1230		1000	123	73 - 134		
Toluene	108-88-3	LCS	956		1000	95.6	73 - 134		
Total Xylenes	1330-20-7	LCS	2990		3000	99.7	75 - 136		
trans-1,2-Dichloroethene	156-60-5	LCS	928		1000	92.8	69 - 130		
trans-1,3-Dichloropropene	10061-02-6	LCS	876		1000	87.6	67 - 129		
Trichloroethene	79-01-6	LCS	957		1000	95.7	77 - 134		
Trichlorofluoromethane	75-69-4	LCS	820		1000	82	27 - 121		
Vinyl Chloride	75-01-4	LCS	872		1000	87.2	5 - 200		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	1380	1500	92.3	71 - 146	
4-Bromofluorobenzene	460-00-4	LCS	1490	1500	99.5	46 - 138	
Dibromofluoromethane	1868-53-7	LCS	1530	1500	102	42 - 143	
Toluene-d8	2037-26-5	LCS	1470	1500	98.3	54 - 141	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

QC Batch

QC Batch	1336310	Prep Method	SW846 5035A
Date	11/12/2024 16:00	Analysis Method	SW846 8260D
Tech.	TMP		

Associated Samples

3387696001 3387696002 3387696003 3387696005 3387696006

Matrix Spike 3908281 (MS) 3387420007 (non-Project Sample) For QC Batch 1336310

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	27.5	0	25.40	108	68 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	MS	25	0	25.40	98.5	72 - 134		
1,1,2-Trichloroethane	79-00-5	MS	24.2	0	25.40	95.3	79 - 123		
1,1-Dichloroethane	75-34-3	MS	26.5	0	25.40	104	74 - 131		
1,1-Dichloroethene	75-35-4	MS	28.7	0	25.40	113	59 - 139		
1,2,3-Trichlorobenzene	87-61-6	MS	11	0	25.40	43.4*	68 - 129		
1,2,3-Trichloropropane	96-18-4	MS	24.3	0	25.40	95.6	74 - 130		
1,2,4-Trichlorobenzene	120-82-1	MS	13.5	0	25.40	53.1*	63 - 132		
1,2,4-Trimethylbenzene	95-63-6	MS	24.1	0	25.40	95.1	70 - 131		
1,2-Dibromo-3-chloropropane	96-12-8	MS	14.9	0	25.40	58.7	52 - 151		
1,2-Dibromoethane	106-93-4	MS	21.8	0	25.40	85.8	76 - 127		
1,2-Dichlorobenzene	95-50-1	MS	17.5	0	25.40	69*	75 - 126		
1,2-Dichloroethane	107-06-2	MS	22.3	0	25.40	87.7	69 - 132		
1,2-Dichloroethene, Total	540-59-0	MS	51.1	0	50.80	101	75 - 128		
1,2-Dichloropropane	78-87-5	MS	25.7	0	25.40	101	78 - 131		
1,3,5-Trimethylbenzene	108-67-8	MS	26.1	0	25.40	103	71 - 132		
1,3-Dichlorobenzene	541-73-1	MS	18.7	0	25.40	73.6	72 - 127		
1,4-Dichlorobenzene	106-46-7	MS	17.5	0	25.40	69.1*	72 - 126		
2-Butanone	78-93-3	MS	133	0	127	105	64 - 148		
2-Hexanone	591-78-6	MS	124	0	127	97.5	62 - 147		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	136	0	127	107	64 - 143		
Acetone	67-64-1	MS	162	0	127	128	58 - 146		
Benzene	71-43-2	MS	26	0.83	25.40	99.2	75 - 132		
Bromochloromethane	74-97-5	MS	25.9	0	25.40	102	71 - 120		
Bromodichloromethane	75-27-4	MS	23.9	0	25.40	94.3	74 - 127		
Bromoform	75-25-2	MS	18	0	25.40	71	68 - 131		
Bromomethane	74-83-9	MS	19.6	0	25.40	77.2	43 - 148		
Carbon Disulfide	75-15-0	MS	24.3	0	25.40	95.9	47 - 144		
Carbon Tetrachloride	56-23-5	MS	26.4	0	25.40	104	64 - 136		
Chlorobenzene	108-90-7	MS	20.9	0	25.40	82.5	76 - 125		
Chlorodibromomethane	124-48-1	MS	18.5	0	25.40	72.9*	75 - 124		
Chloroethane	75-00-3	MS	26.1	0	25.40	103	1 - 141		
Chloroform	67-66-3	MS	25.5	0	25.40	100	73 - 126		
Chloromethane	74-87-3	MS	25.4	0	25.40	100	44 - 139		
cis-1,2-Dichloroethene	156-59-2	MS	25.5	0	25.40	101	75 - 128		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
cis-1,3-Dichloropropene	10061-01-5	MS	20.1	0	25.40	79.3	76 - 123		
Cyclohexane	110-82-7	MS	27.6	0	25.40	109	62 - 143		
Dichlorodifluoromethane	75-71-8	MS	26.3	0	25.40	104	16 - 152		
Ethylbenzene	100-41-4	MS	24.6	0	25.40	96.8	73 - 133		
Freon 113	76-13-1	MS	29.9	0	25.40	118*	40 - 109		
Isopropylbenzene	98-82-8	MS	29.3	0	25.40	116	71 - 137		
Methyl acetate	79-20-9	MS	35.2	0	25.40	139*	70 - 130		
Methyl cyclohexane	108-87-2	MS	28	0	25.40	110	70 - 130		
Methyl t-Butyl Ether	1634-04-4	MS	29.3	0	25.40	115	70 - 118		
Methylene Chloride	75-09-2	MS	25.9	1.10	25.40	98	68 - 133		
mp-Xylene	108383/106423	MS	50.7	0	50.80	100	72 - 130		
o-Xylene	95-47-6	MS	20.9	0	25.40	82.2	75 - 129		
Styrene	100-42-5	MS	22	0	25.40	86.5	77 - 130		
Tetrachloroethene	127-18-4	MS	21.5	0	25.40	84.7	58 - 137		
Toluene	108-88-3	MS	24.4	0	25.40	96.1	73 - 129		
Total Xylenes	1330-20-7	MS	71.6	0	76.10	94	73 - 130		
trans-1,2-Dichloroethene	156-60-5	MS	25.6	0	25.40	101	66 - 133		
trans-1,3-Dichloropropene	10061-02-6	MS	20.1	0	25.40	79.3	77 - 123		
Trichloroethene	79-01-6	MS	23.9	0	25.40	94.2	72 - 129		
Trichlorofluoromethane	75-69-4	MS	26.6	0	25.40	105	40 - 130		
Vinyl Chloride	75-01-4	MS	25.5	0	25.40	101	53 - 141		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	38.5	38.10	101	56 - 124	
4-Bromofluorobenzene	460-00-4	MS	42.6	38.10	112	51 - 128	
Dibromofluoromethane	1868-53-7	MS	38.7	38.10	102	62 - 123	
Toluene-d8	2037-26-5	MS	38.2	38.10	100	59 - 131	

Method Blank 3908257 (MB) Created on 11/20/2024 23:58 For QC Batch 1336310

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	2.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	2.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	2.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	2.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	2.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	5.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/kg	5.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	2.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	2.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	2.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	2.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	2.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	4.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	2.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/kg	2.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	2.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	2.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	10.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	10.0	ND
Acetone	67-64-1	BLK	ND	ug/kg	10.0	ND
Benzene	71-43-2	BLK	ND	ug/kg	2.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	2.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	2.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	2.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	2.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	2.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	2.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	2.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	2.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	5.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	2.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	2.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	2.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	2.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	2.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	2.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	2.0	ND
Freon 113	76-13-1	BLK	ND	ug/kg	2.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	2.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	2.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	2.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	2.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/kg	4.0	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	2.0	ND
Styrene	100-42-5	BLK	ND	ug/kg	2.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	2.0	ND
Toluene	108-88-3	BLK	ND	ug/kg	2.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	6.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	2.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	2.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	2.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	2.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	2.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	28.2	30	94	56 - 124	
4-Bromofluorobenzene	460-00-4	BLK	31.9	30	106	51 - 128	
Dibromofluoromethane	1868-53-7	BLK	29.1	30	97	62 - 123	
Toluene-d8	2037-26-5	BLK	30.5	30	102	59 - 131	

Lab Control Standard 3908258 (LCS) Created on 11/20/2024 23:58 For QC Batch 1336310

Lab Control Std Duplicate 3908259 (LCSD) Created on 11/20/2024 23:58 For QC Batch 1336310

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.8		20	109	68 - 131		
1,1,1-Trichloroethane	71-55-6	LCSD	20.8		20	104	68 - 131	RPD 4.52 (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.1		20	106	72 - 134		
1,1,2,2-Tetrachloroethane	79-34-5	LCSD	19.6		20	98	72 - 134	RPD 7.48 (Max-40)	
1,1,2-Trichloroethane	79-00-5	LCS	22		20	110	79 - 123		
1,1,2-Trichloroethane	79-00-5	LCSD	21.3		20	107	79 - 123	RPD 3.21 (Max-40)	
1,1-Dichloroethane	75-34-3	LCS	21.2		20	106	74 - 131		
1,1-Dichloroethane	75-34-3	LCSD	20.2		20	101	74 - 131	RPD 4.76 (Max-40)	
1,1-Dichloroethene	75-35-4	LCS	22.7		20	113	59 - 139		
1,1-Dichloroethene	75-35-4	LCSD	22		20	110	59 - 139	RPD 3.16 (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	LCS	24.9		20	124	68 - 129		
1,2,3-Trichlorobenzene	87-61-6	LCSD	22.9		20	114	68 - 129	RPD 8.35 (Max-40)	
1,2,3-Trichloropropane	96-18-4	LCS	20.4		20	102	74 - 130		
1,2,3-Trichloropropane	96-18-4	LCSD	19		20	94.9	74 - 130	RPD 7.08 (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	LCS	28.5		20	142*	63 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCSD	26.3		20	132	63 - 132	RPD 7.97 (Max-40)	
1,2,4-Trimethylbenzene	95-63-6	LCS	22.9		20	115	70 - 131		
1,2,4-Trimethylbenzene	95-63-6	LCSD	21.6		20	108	70 - 131	RPD 5.83 (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	LCS	16.5		20	82.3	52 - 151		
1,2-Dibromo-3-chloropropane	96-12-8	LCSD	14.8		20	73.9	52 - 151	RPD 10.80 (Max-40)	
1,2-Dibromoethane	106-93-4	LCS	22.9		20	114	76 - 127		
1,2-Dibromoethane	106-93-4	LCSD	21.7		20	108	76 - 127	RPD 5.44 (Max-40)	
1,2-Dichlorobenzene	95-50-1	LCS	22.5		20	113	75 - 126		
1,2-Dichlorobenzene	95-50-1	LCSD	21.3		20	107	75 - 126	RPD 5.61 (Max-40)	
1,2-Dichloroethane	107-06-2	LCS	19.6		20	98.2	69 - 132		
1,2-Dichloroethane	107-06-2	LCSD	18.5		20	92.7	69 - 132	RPD 5.71 (Max-40)	
1,2-Dichloroethene, Total	540-59-0	LCS	44.7		40	112	75 - 128		
1,2-Dichloroethene, Total	540-59-0	LCSD	43		40	107	75 - 128	RPD 3.89 (Max-40)	
1,2-Dichloropropane	78-87-5	LCS	22.3		20	111	78 - 131		
1,2-Dichloropropane	78-87-5	LCSD	21.3		20	107	78 - 131	RPD 4.53 (Max-40)	
1,3,5-Trimethylbenzene	108-67-8	LCS	23.1		20	115	71 - 132		
1,3,5-Trimethylbenzene	108-67-8	LCSD	22		20	110	71 - 132	RPD 4.82 (Max-40)	
1,3-Dichlorobenzene	541-73-1	LCS	22.6		20	113	72 - 127		
1,3-Dichlorobenzene	541-73-1	LCSD	21.3		20	106	72 - 127	RPD 5.98 (Max-40)	
1,4-Dichlorobenzene	106-46-7	LCS	21.9		20	109	72 - 126		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dichlorobenzene	106-46-7	LCSD	20.5		20	103	72 - 126	RPD 6.45 (Max-40)	
2-Butanone	78-93-3	LCS	121		100	121	64 - 148		
2-Butanone	78-93-3	LCSD	110		100	110	64 - 148	RPD 9.62 (Max-40)	
2-Hexanone	591-78-6	LCS	116		100	116	62 - 147		
2-Hexanone	591-78-6	LCSD	108		100	108	62 - 147	RPD 7.49 (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	118		100	118	64 - 143		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCSD	110		100	110	64 - 143	RPD 6.98 (Max-40)	
Acetone	67-64-1	LCS	133		100	133	58 - 146		
Acetone	67-64-1	LCSD	123		100	123	58 - 146	RPD 8.06 (Max-40)	
Benzene	71-43-2	LCS	22		20	110	75 - 132		
Benzene	71-43-2	LCSD	21		20	105	75 - 132	RPD 4.65 (Max-40)	
Bromochloromethane	74-97-5	LCS	23.3		20	116	71 - 120		
Bromochloromethane	74-97-5	LCSD	22.3		20	111	71 - 120	RPD 4.41 (Max-40)	
Bromodichloromethane	75-27-4	LCS	22.5		20	113	74 - 127		
Bromodichloromethane	75-27-4	LCSD	21.5		20	108	74 - 127	RPD 4.67 (Max-40)	
Bromoform	75-25-2	LCS	17.6		20	88.2	68 - 131		
Bromoform	75-25-2	LCSD	16.7		20	83.4	68 - 131	RPD 5.65 (Max-40)	
Bromomethane	74-83-9	LCS	16.8		20	83.9	43 - 148		
Bromomethane	74-83-9	LCSD	15.9		20	79.4	43 - 148	RPD 5.48 (Max-40)	
Carbon Disulfide	75-15-0	LCS	22.5		20	112	47 - 144		
Carbon Disulfide	75-15-0	LCSD	21.4		20	107	47 - 144	RPD 4.85 (Max-40)	
Carbon Tetrachloride	56-23-5	LCS	21.5		20	108	64 - 136		
Carbon Tetrachloride	56-23-5	LCSD	20.4		20	102	64 - 136	RPD 5.48 (Max-40)	
Chlorobenzene	108-90-7	LCS	22.2		20	111	76 - 125		
Chlorobenzene	108-90-7	LCSD	21.2		20	106	76 - 125	RPD 4.35 (Max-40)	
Chlorodibromomethane	124-48-1	LCS	18.7		20	93.6	75 - 124		
Chlorodibromomethane	124-48-1	LCSD	18		20	89.9	75 - 124	RPD 4.11 (Max-40)	
Chloroethane	75-00-3	LCS	11.7		20	58.4	1 - 141		
Chloroethane	75-00-3	LCSD	13.7		20	68.3	1 - 141	RPD 15.70 (Max-40)	
Chloroform	67-66-3	LCS	21		20	105	73 - 126		
Chloroform	67-66-3	LCSD	20.1		20	101	73 - 126	RPD 4.04 (Max-40)	
Chloromethane	74-87-3	LCS	19.4		20	96.9	44 - 139		
Chloromethane	74-87-3	LCSD	18.6		20	93	44 - 139	RPD 4.11 (Max-40)	
cis-1,2-Dichloroethene	156-59-2	LCS	22.4		20	112	75 - 128		
cis-1,2-Dichloroethene	156-59-2	LCSD	21.5		20	107	75 - 128	RPD 4.06 (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	LCS	20.3		20	101	76 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCSD	19.3		20	96.6	76 - 123	RPD 4.87 (Max-40)	
Cyclohexane	110-82-7	LCS	21.9		20	110	62 - 143		
Cyclohexane	110-82-7	LCSD	20.8		20	104	62 - 143	RPD 5.13 (Max-40)	
Dichlorodifluoromethane	75-71-8	LCS	17.9		20	89.5	16 - 152		
Dichlorodifluoromethane	75-71-8	LCSD	17.3		20	86.3	16 - 152	RPD 3.72 (Max-40)	
Ethylbenzene	100-41-4	LCS	23.4		20	117	73 - 133		
Ethylbenzene	100-41-4	LCSD	22.5		20	112	73 - 133	RPD 4.23 (Max-40)	
Freon 113	76-13-1	LCS	22.3		20	112*	40 - 109		
Freon 113	76-13-1	LCSD	21.3		20	106	40 - 109	RPD 4.96 (Max-40)	
Isopropylbenzene	98-82-8	LCS	23.6		20	118	71 - 137		
Isopropylbenzene	98-82-8	LCSD	22.7		20	113	71 - 137	RPD 3.94 (Max-40)	
Methyl acetate	79-20-9	LCS	21.2		20	106	70 - 130		
Methyl acetate	79-20-9	LCSD	19.9		20	99.7	70 - 130	RPD 6.17 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl cyclohexane	108-87-2	LCS	25		20	125	70 - 130		
Methyl cyclohexane	108-87-2	LCSD	23.8		20	119	70 - 130	RPD 5.06 (Max-40)	
Methyl t-Butyl Ether	1634-04-4	LCS	24.5		20	122*	70 - 118		
Methyl t-Butyl Ether	1634-04-4	LCSD	23.4		20	117	70 - 118	RPD 4.48 (Max-40)	
Methylene Chloride	75-09-2	LCS	20.8		20	104	68 - 133		
Methylene Chloride	75-09-2	LCSD	19.8		20	99.2	68 - 133	RPD 4.94 (Max-40)	
mp-Xylene	108383/106423	LCS	50.2		40	126	72 - 130		
mp-Xylene	108383/106423	LCSD	48.6		40	121	72 - 130	RPD 3.28 (Max-40)	
o-Xylene	95-47-6	LCS	21.4		20	107	75 - 129		
o-Xylene	95-47-6	LCSD	20.7		20	103	75 - 129	RPD 3.57 (Max-40)	
Styrene	100-42-5	LCS	21.8		20	109	77 - 130		
Styrene	100-42-5	LCSD	20.8		20	104	77 - 130	RPD 4.96 (Max-40)	
Tetrachloroethene	127-18-4	LCS	20.8		20	104	58 - 137		
Tetrachloroethene	127-18-4	LCSD	20.2		20	101	58 - 137	RPD 3.08 (Max-40)	
Toluene	108-88-3	LCS	22		20	110	73 - 129		
Toluene	108-88-3	LCSD	21.1		20	106	73 - 129	RPD 4.20 (Max-40)	
Total Xylenes	1330-20-7	LCS	71.6		60	119	73 - 130		
Total Xylenes	1330-20-7	LCSD	69.3		60	115	73 - 130	RPD 3.37 (Max-40)	
trans-1,2-Dichloroethene	156-60-5	LCS	22.3		20	112	66 - 133		
trans-1,2-Dichloroethene	156-60-5	LCSD	21.5		20	107	66 - 133	RPD 3.72 (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	LCS	21.8		20	109	77 - 123		
trans-1,3-Dichloropropene	10061-02-6	LCSD	20.7		20	103	77 - 123	RPD 5.27 (Max-40)	
Trichloroethene	79-01-6	LCS	21.3		20	106	72 - 129		
Trichloroethene	79-01-6	LCSD	20.3		20	102	72 - 129	RPD 4.60 (Max-40)	
Trichlorofluoromethane	75-69-4	LCS	17.2		20	85.9	40 - 130		
Trichlorofluoromethane	75-69-4	LCSD	16.9		20	84.4	40 - 130	RPD 1.70 (Max-40)	
Vinyl Chloride	75-01-4	LCS	19.5		20	97.7	53 - 141		
Vinyl Chloride	75-01-4	LCSD	18.9		20	94.3	53 - 141	RPD 3.47 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	27.9	30	93.1	56 - 124	
1,2-Dichloroethane-d4	17060-07-0	LCSD	26.2	30	87.2	56 - 124	
4-Bromofluorobenzene	460-00-4	LCS	32.3	30	108	51 - 128	
4-Bromofluorobenzene	460-00-4	LCSD	30.1	30	100	51 - 128	
Dibromofluoromethane	1868-53-7	LCS	30.9	30	103	62 - 123	
Dibromofluoromethane	1868-53-7	LCSD	28.8	30	95.9	62 - 123	
Toluene-d8	2037-26-5	LCS	31.2	30	104	59 - 131	
Toluene-d8	2037-26-5	LCSD	29.5	30	98.2	59 - 131	

QC Batch

QC Batch	1338594	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3387696008

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Matrix Spike 3909440 (MS) 3387943003 (non-Project Sample) For QC Batch 1338594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909441 (MSD) 3387943003 (non-Project Sample) For QC Batch 1338594

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	23.6	0	20	118	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	24.6	0	20	123	66 - 130	RPD 4.31 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	24.9	0	20	124	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	26.8	0	20	134	74 - 135	RPD 7.36 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	24	0	20	120	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	24.7	0	20	123	82 - 126	RPD 2.57 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	22.7	0	20	113	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	23.7	0	20	118	78 - 124	RPD 4.35 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	23.9	0	20	119	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	24.9	0	20	124	63 - 128	RPD 4.15 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	21.6	0	20	108	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	23.6	0	20	118	61 - 126	RPD 9.15 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	24.2	0	20	121	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	26.2	0	20	131	75 - 132	RPD 7.66 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	22.5	0	20	112	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	24.6	0	20	123	67 - 123	RPD 8.99 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.8	0	20	109	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	23.4	0	20	117	76 - 125	RPD 7.07 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	24.8	0	20	124	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	26.4	0	20	132	59 - 133	RPD 6.51 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	23.1	0	20	116	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	24.1	0	20	121	80 - 124	RPD 4.11 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	20.6	0	20	103	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	22.4	0	20	112	82 - 118	RPD 8.16 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	22.3	0	20	111	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	22.9	0	20	114	70 - 133	RPD 2.76 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	23.1	0	20	115	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	24	0	20	120	81 - 127	RPD 3.89 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	22.3	0	20	112	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	24.1	0	20	120	76 - 125	RPD 7.47 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	20.3	0	20	101	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	21.9	0	20	109	81 - 118	RPD 7.53 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	20.3	0	20	102	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	21.9	0	20	110	81 - 116	RPD 7.58 (Max-15)	
2-Butanone	78-93-3	MS	121	0	100	121	50 - 152		
2-Butanone	78-93-3	MSD	129	0	100	129	50 - 152	RPD 6.40 (Max-16)	
2-Hexanone	591-78-6	MS	132	0	100	132	65 - 154		
2-Hexanone	591-78-6	MSD	136	0	100	136	65 - 154	RPD 2.71 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	133	0	100	133	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	137	0	100	137	71 - 146	RPD 2.73 (Max-16)	
Acetone	67-64-1	MS	121	0	100	121	40 - 151		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Acetone	67-64-1	MSD	124	0	100	124	40 - 151	RPD 2.93 (Max-40)	
Benzene	71-43-2	MS	22.3	0	20	111	80 - 124		
Benzene	71-43-2	MSD	23.3	0	20	116	80 - 124	RPD 4.55 (Max-26)	
Bromochloromethane	74-97-5	MS	21.8	0	20	109	73 - 117		
Bromochloromethane	74-97-5	MSD	23.1	0	20	116	73 - 117	RPD 5.99 (Max-19)	
Bromodichloromethane	75-27-4	MS	23.1	0	20	116	79 - 126		
Bromodichloromethane	75-27-4	MSD	24.4	0	20	122	79 - 126	RPD 5.25 (Max-16)	
Bromoform	75-25-2	MS	21	0	20	105	70 - 123		
Bromoform	75-25-2	MSD	23.1	0	20	116	70 - 123	RPD 9.85 (Max-16)	
Bromomethane	74-83-9	MS	16.1	0	20	80.4	45 - 148		
Bromomethane	74-83-9	MSD	17.8	0	20	88.8	45 - 148	RPD 9.94 (Max-26)	
Carbon Disulfide	75-15-0	MS	21.9	0	20	110	57 - 131		
Carbon Disulfide	75-15-0	MSD	23.3	0	20	116	57 - 131	RPD 5.92 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	19.9	0	20	99.6	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	20.9	0	20	104	62 - 132	RPD 4.64 (Max-17)	
Chlorobenzene	108-90-7	MS	21.3	0	20	106	85 - 117		
Chlorobenzene	108-90-7	MSD	22.1	0	20	110	85 - 117	RPD 3.74 (Max-15)	
Chlorodibromomethane	124-48-1	MS	20.1	0	20	100	77 - 122		
Chlorodibromomethane	124-48-1	MSD	20.8	0	20	104	77 - 122	RPD 3.42 (Max-15)	
Chloroethane	75-00-3	MS	21.1	0	20	106	51 - 142		
Chloroethane	75-00-3	MSD	21	0	20	105	51 - 142	RPD 0.63 (Max-24)	
Chloroform	67-66-3	MS	26.5	4.80	20	108	78 - 122		
Chloroform	67-66-3	MSD	27.8	4.80	20	115	78 - 122	RPD 4.62 (Max-16)	
Chloromethane	74-87-3	MS	21.3	0	20	106	38 - 156		
Chloromethane	74-87-3	MSD	22.9	0	20	114	38 - 156	RPD 7.13 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	22.9	0	20	115	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	24	0	20	120	78 - 125	RPD 4.81 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.2	0	20	95.8	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	20.2	0	20	101	81 - 121	RPD 5.33 (Max-16)	
Cyclohexane	110-82-7	MS	24	0	20	120	66 - 130		
Cyclohexane	110-82-7	MSD	25.3	0	20	126	66 - 130	RPD 5.32 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	20.4	0	20	102	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	21	0	20	105	17 - 166	RPD 3.31 (Max-24)	
Ethylbenzene	100-41-4	MS	21.9	0	20	109	80 - 124		
Ethylbenzene	100-41-4	MSD	22.8	0	20	114	80 - 124	RPD 4.40 (Max-19)	
Freon 113	76-13-1	MS	23.8	0	20	119	50 - 130		
Freon 113	76-13-1	MSD	24.1	0	20	120	50 - 130	RPD 1.14 (Max-26)	
Isopropylbenzene	98-82-8	MS	24	0	20	120	73 - 129		
Isopropylbenzene	98-82-8	MSD	26.1	0	20	130*	73 - 129	RPD 8.06 (Max-18)	
Methyl acetate	79-20-9	MS	21.9	0	20	110	70 - 130		
Methyl acetate	79-20-9	MSD	22.1	0	20	111	70 - 130	RPD 0.72 (Max-18)	
Methyl cyclohexane	108-87-2	MS	22.8	0	20	114	70 - 130		
Methyl cyclohexane	108-87-2	MSD	23.6	0	20	118	70 - 130	RPD 3.44 (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	23.3	0	20	117*	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	24.6	0	20	123*	69 - 115	RPD 5.18 (Max-20)	
Methylene Chloride	75-09-2	MS	22.1	0	20	110	76 - 121		
Methylene Chloride	75-09-2	MSD	23.2	0	20	116	76 - 121	RPD 5.04 (Max-17)	
mp-Xylene	108383/106423	MS	43.4	0	40	108	79 - 125		
mp-Xylene	108383/106423	MSD	45.1	0	40	113	79 - 125	RPD 3.89 (Max-21)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
o-Xylene	95-47-6	MS	21.6	0	20	108	79 - 124		
o-Xylene	95-47-6	MSD	22.8	0	20	114	79 - 124	RPD 5.10 (Max-19)	
Styrene	100-42-5	MS	18.7	0	20	93.3	79 - 123		
Styrene	100-42-5	MSD	20.2	0	20	101	79 - 123	RPD 7.94 (Max-16)	
Tetrachloroethene	127-18-4	MS	19.7	0	20	98.7	72 - 124		
Tetrachloroethene	127-18-4	MSD	20.9	0	20	104	72 - 124	RPD 5.66 (Max-38)	
Toluene	108-88-3	MS	22.2	0	20	111	80 - 125		
Toluene	108-88-3	MSD	23.2	0	20	116	80 - 125	RPD 4.22 (Max-20)	
Total Xylenes	1330-20-7	MS	65	0	60	108	79 - 125		
Total Xylenes	1330-20-7	MSD	67.8	0	60	113	79 - 125	RPD 4.29 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	22.3	0	20	112	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	23.6	0	20	118	71 - 122	RPD 5.75 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	20.1	0	20	101	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	20.4	0	20	102	78 - 126	RPD 1.62 (Max-18)	
Trichloroethene	79-01-6	MS	21.5	0	20	108	77 - 124		
Trichloroethene	79-01-6	MSD	22.8	0	20	114	77 - 124	RPD 5.66 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	21.7	0	20	108	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	21.6	0	20	108	38 - 123	RPD 0.25 (Max-23)	
Vinyl Chloride	75-01-4	MS	23.9	0	20	119	27 - 138		
Vinyl Chloride	75-01-4	MSD	24.6	0	20	123	27 - 138	RPD 2.93 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	32.3	30	108	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	31.4	30	105	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	29.2	30	97.2	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	30.2	30	101	79 - 114	
Dibromofluoromethane	1868-53-7	MS	31.5	30	105	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	31.6	30	105	78 - 116	
Toluene-d8	2037-26-5	MS	31.4	30	105	76 - 127	
Toluene-d8	2037-26-5	MSD	30.7	30	102	76 - 127	

Method Blank 3909438 (MB) Created on 11/23/2024 10:08 For QC Batch 1338594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	0.33J	ug/L	1.0	J
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	0.39J	ug/L	1.0	J
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.6	30	102	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	31.4	30	105	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.4	30	94.6	78 - 116	
Toluene-d8	2037-26-5	BLK	29.9	30	99.7	76 - 127	

Lab Control Standard 3909439 (LCS) Created on 11/23/2024 10:08 For QC Batch 1338594

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.5		20	108	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	24.2		20	121	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	22.7		20	113	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	21		20	105	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.4		20	107	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	23.1		20	115	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	23.3		20	117	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.2		20	121	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22.2		20	111	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	23.7		20	118	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	22.2		20	111	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.2		20	106	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.8		20	104	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21.5		20	107	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.3		20	112	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.9		20	104	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.1		20	105	81 - 116		
2-Butanone	78-93-3	LCS	125		100	125	50 - 152		
2-Hexanone	591-78-6	LCS	128		100	128	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	120		100	120	71 - 146		
Acetone	67-64-1	LCS	149		100	149	40 - 151		
Benzene	71-43-2	LCS	20.5		20	103	80 - 124		
Bromochloromethane	74-97-5	LCS	21.3		20	106	73 - 117		
Bromodichloromethane	75-27-4	LCS	22.4		20	112	79 - 126		
Bromoform	75-25-2	LCS	21.9		20	109	70 - 123		
Bromomethane	74-83-9	LCS	15.9		20	79.6	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.2		20	106	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19		20	95	62 - 132		
Chlorobenzene	108-90-7	LCS	20.8		20	104	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.7		20	98.7	77 - 122		
Chloroethane	75-00-3	LCS	19		20	95.1	51 - 142		
Chloroform	67-66-3	LCS	20.2		20	101	78 - 122		
Chloromethane	74-87-3	LCS	20.9		20	104	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21.6		20	108	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.5		20	97.3	81 - 121		
Cyclohexane	110-82-7	LCS	21.4		20	107	66 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCS	19.2		20	95.8	17 - 166		
Ethylbenzene	100-41-4	LCS	20.7		20	104	80 - 124		
Freon 113	76-13-1	LCS	21.9		20	110	50 - 130		
Isopropylbenzene	98-82-8	LCS	23.9		20	120	73 - 129		
Methyl acetate	79-20-9	LCS	23.7		20	119	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22		20	110	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	22.3		20	111	69 - 115		
Methylene Chloride	75-09-2	LCS	21.2		20	106	76 - 121		
mp-Xylene	108383/106423	LCS	42.1		40	105	79 - 125		
o-Xylene	95-47-6	LCS	21.2		20	106	79 - 124		
Styrene	100-42-5	LCS	19.2		20	96	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.8		20	98.9	72 - 124		
Toluene	108-88-3	LCS	21.2		20	106	80 - 125		
Total Xylenes	1330-20-7	LCS	63.3		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.1		20	106	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	20.1		20	101	78 - 126		
Trichloroethene	79-01-6	LCS	20.1		20	100	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21		20	105	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.3		20	107	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	31.5	30	105	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	30.7	30	102	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	31.7	30	106	78 - 116	
Toluene-d8	2037-26-5	LCS	32.3	30	108	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1332562	Prep Method	N/A
Date	N/A	Analysis Method	S2540G-15
Tech.			

Associated Samples

3387696001	3387696002	3387696003	3387696004
3387696005	3387696006	3387696007	

Duplicate 3905875 (DUP) 3387644002 (non-Project Sample) For QC Batch 1332562

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	8.3146	7.8295	RPD	6.01 (Max-10)	
Total Solids	TSP	DUP	91.6853	92.1704	RPD	0.53 (Max-5)	

Duplicate 3905876 (DUP) 3387655002 (non-Project Sample) For QC Batch 1332562

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	6.7378	9.2219	RPD	31.10* (Max-10)	
Total Solids	TSP	DUP	93.2621	90.7780	RPD	2.70 (Max-5)	

Duplicate 3905877 (DUP) 3387741002 (non-Project Sample) For QC Batch 1332562

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	26.7815	26.0240	RPD	2.87 (Max-10)	
Total Solids	TSP	DUP	73.2184	73.9759	RPD	1.03 (Max-5)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3387696001	SB-212-11	SW846 3051A	1348795	12/02/2024 07:04	ANN	SW846 6010C	1349810
		SW846 3051A	1348795	12/02/2024 07:04	ANN	SW846 6010C	1350109
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333043	11/17/2024 14:10	BMP	SW846 8270E	1334505
		SW846 5035A	1336310	11/13/2024 08:50	PDK	SW846 8260D	1336311
		N/A	N/A	N/A		S2540G-15	1332562
3387696002	SB-214-9	SW846 3051A	1339684	11/26/2024 11:30	NBU	SW846 6010C	1345596
		SW846 3051A	1339684	11/26/2024 11:30	NBU	SW846 6010C	1345941
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333045	11/17/2024 19:30	J1H	SW846 8270E	1335411
		SW846 5035A	1336310	11/13/2024 09:30	PDK	SW846 8260D	1336311
		N/A	N/A	N/A		S2540G-15	1332562
3387696003	SB-215-7	SW846 3051A	1339684	11/26/2024 11:30	NBU	SW846 6010C	1345596
		SW846 7471B	1338692	11/25/2024 16:43	JMS	SW846 7471B	1344290
		SW846 3546	1333045	11/17/2024 19:30	J1H	SW846 8270E	1335411
		SW846 5035A	1336310	11/13/2024 10:15	PDK	SW846 8260D	1336311
		N/A	N/A	N/A		S2540G-15	1332562
3387696004	SB-200-10	SW846 3051A	1339684	11/26/2024 11:30	NBU	SW846 6010C	1345596
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333045	11/17/2024 19:30	J1H	SW846 8270E	1335411
		SW846 5035A	1333060	11/13/2024 11:45	VLM	SW846 8260D	1333061
		N/A	N/A	N/A		S2540G-15	1332562
3387696005	SB-202-11	SW846 3051A	1348795	12/02/2024 07:04	ANN	SW846 6010C	1349810
		SW846 3051A	1348795	12/02/2024 07:04	ANN	SW846 6010C	1350109
		SW846 7471B	1338692	11/25/2024 16:43	JMS	SW846 7471B	1344290
		SW846 3546	1333045	11/17/2024 19:30	J1H	SW846 8270E	1335411
		SW846 5035A	1336310	11/13/2024 15:30	PDK	SW846 8260D	1336311
		N/A	N/A	N/A		S2540G-15	1332562
3387696006	SB-202-11D	SW846 3051A	1348795	12/02/2024 07:04	ANN	SW846 6010C	1349810
		SW846 3051A	1348795	12/02/2024 07:04	ANN	SW846 6010C	1350109
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333045	11/17/2024 19:30	J1H	SW846 8270E	1335411
		SW846 5035A	1336310	11/13/2024 15:45	PDK	SW846 8260D	1336311
		N/A	N/A	N/A		S2540G-15	1332562
3387696007	SB-205-11	SW846 3051A	1339684	11/26/2024 11:30	NBU	SW846 6010C	1345596
		SW846 7471B	1338691	11/25/2024 16:43	JMS	SW846 7471B	1344289
		SW846 3546	1333045	11/17/2024 19:30	J1H	SW846 8270E	1335411
		SW846 5035A	1334606	11/13/2024 16:10	VLM	SW846 8260D	1334607
		N/A	N/A	N/A		S2540G-15	1332562
3387696008	TB-2	N/A	N/A	N/A		SW846 8260D	1338594

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3387696
Logged By: CXW
PM: EXP
ALS Quote #:
of

Client Name: Michael Baker Intl.
Address: 100 Airside Drive
Moon Twp., PA

Contact: C. Kupfer
Phone#: 412-269-6300
Project Name/#:
Bill To:
Purchase Order #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

	Container Type	Container Size	Preservative
	TCK	G	
	3 40ml	8 oz	
	MeOH + DI	UNP	MJE 11/14/24

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260D	SVOCs 8270E	TAL Metals + Hg 6010D/7471B							
				Enter Number of Containers Per Sample or Field Results Below.												
1	SB-212-11	11/13/24	0850		G	S	X	X	X	MJE						
2	SB-214-9	"	0930		"	"	X	X	X	11/14/24						
3	SB-215-7	"	1015		"	"	X	X	X							
4	SB-200-10	"	1145		"	"	X	X	X							
5	SB-202-11	"	1530		"	"	X	X	X							
6	SB-202-11D	"	1545		"	"	X	X	X							
7	SB-205-11	"	1610		"	"	X	X	X							
8	TB-2	—	—		—		2									
9																
10																

Temp Taken By: MJE Therm ID: 569 WO Temp (°C): 5°
Receipt Info completed by: WV Containers 0-6°C Y N NA
Cooler C ... nations? NO YES
Sample ... If YES,
Receive ...

Temp By:	WO Temp (°C)	Therm ID
MJE	5°	569

Coolers
Correct
Sample
Adequat
VOA onl
NJ ≤ 4
Courier/Tr

Receipt Info Completed By:	MJE
Cooler Custody Seal Intact	Y N (NA)
Sample Custody Seal Intact	Y N (NA)
Received on Ice	(Y) N NA
Cooler & Samples Intact	(Y) N
Correct Containers Provided	(Y) N
Sample Label/COC Agree	(Y) N
Adequate Sample Volumes	(Y) N
CR6 Samples Filtered	Y N (NA)
OP Samples Filtered	Y N (NA)
VOA Trip Blank	(Y) N NA
NJ≤ 4 Days?	Y (N)
Rad Screen (uCi)	___
Courier/Tracking #:	281776412534
SDWA Compliance	Y (N)
PWSID	
WV Containers 0-6°C	Y N (NA)

Client contact:
Sample(: ... een (uCi)
Reportat ... ce? Y N
SDWA S ... ce Contact:
PWSID
PWS Co *No Sampler - MJE 11/14/24

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks
*Each TCK has
1-G|MeOH
2-G|DI MJE
1-G|UNP 11/14/24
Contains Short Hold Testing YES NO
Internal Use: if less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: ID:
Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11/13/24	1800	1	Dave Gaviglia / MBI	2	Fedex
11/14/24	910	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] CLP-like [ ] HSCA; [ ] Standard Lvl 2 [ ] DOD [ ] Landfill; [ ] Standard Lvl 3 [ ] NJ RED [ ] NJ GW; [ ] Standard Lvl 4 [ ] NJ Full [ ]
EDDs: [ ] Excel Summary [ ] Equis [ ] Custom
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type:
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

281776412534

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke Works
Workorder 3387962
Report ID 372552 on 12/9/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 15, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3387962001	SB-207-10	Solid	11/14/2024 08:15	11/15/2024 09:13	CBC	Collected By Client
3387962002	SB-209-8.5	Solid	11/14/2024 09:00	11/15/2024 09:13	CBC	Collected By Client
3387962003	SB-211-11.5	Solid	11/14/2024 09:55	11/15/2024 09:13	CBC	Collected By Client
3387962004	SB-213-11	Solid	11/14/2024 10:35	11/15/2024 09:13	CBC	Collected By Client
3387962005	SB-216-7	Solid	11/14/2024 15:30	11/15/2024 09:13	CBC	Collected By Client
3387962006	TB-3	Ground Water	11/14/2024 15:30	11/15/2024 09:13	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	Bromoform was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift was reported at 21.41%. Acceptable limits are +/-20%.
2	2-Butanone was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % difference was reported at 21.85%. Acceptable limits are +/-20%.
3	Methyl acetate was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % difference was reported at 33.26%. Acceptable limits are +/-20%.
4	4-Methyl-2-Pentanone (MIBK) was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % difference was reported at 24.00%. Acceptable limits are +/-20%.
5	1,2,3-Trichlorobenzene was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift was reported at 20.87%. Acceptable limits are +/-20%.
6	The QC sample type LCS for method SW846 8270E was outside the control limits for the analyte mp-Cresol. The % Recovery was reported as 113 and the control limits were 60 to 109.
7	The QC sample type LCS for method SW846 8270E was outside the control limits for the analyte 4-Nitrophenol. The % Recovery was reported as 127 and the control limits were 53 to 124.
8	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2,4-Dinitrotoluene. The % Recovery was reported as 121 and the control limits were 80 to 120.
9	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2-Methyl-4,6-Dinitrophenol. The % Recovery was reported as 121 and the control limits were 80 to 120.
10	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2-Nitrophenol. The % Recovery was reported as 124 and the control limits were 80 to 120.
11	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
12	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Calcium, Total. The % Recovery was reported as 274 and the control limits were 75 to 125.
13	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Calcium, Total. The % Recovery was reported as 418 and the control limits were 75 to 125.
14	The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.
15	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Magnesium, Total. The % Recovery was reported as 362 and the control limits were 75 to 125.
16	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Magnesium, Total. The % Recovery was reported as 166 and the control limits were 75 to 125.
17	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Manganese, Total. The % Recovery was reported as 435 and the control limits were 75 to 125.
18	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Manganese, Total. The % Recovery was reported as 217 and the control limits were 75 to 125.
19	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Potassium, Total. The % Recovery was reported as 73.8 and the control limits were 75 to 125.

20	The QC sample type MS for method SW846 7471B was outside the control limits for the analyte Mercury, Total. The % Recovery was reported as 77.4 and the control limits were 80 to 120.
21	The QC sample type MSD for method SW846 7471B was outside the control limits for the analyte Mercury, Total. The % Recovery was reported as -40.2 and the control limits were 80 to 120.
22	The QC sample type MSD for method SW846 7471B was outside the control limits for the analyte Mercury, Total. The RPD was reported as 152 and the upper control limit is 20.
23	The QC sample type LCS for method SW846 8260D was outside the control limits for the analyte Trichlorofluoromethane. The % Recovery was reported as 124 and the control limits were 38 to 123.

Detected Results Summary

Client Sample ID	SB-207-10	Collected	11/14/2024 08:15
Lab Sample ID	3387962001	Lab Receipt	11/15/2024 09:13

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	16200	mg/kg	73.9	24.6	SW846 6010C	#
Arsenic, Total	21.0	mg/kg	14.8	4.9	SW846 6010C	#
Barium, Total	162	mg/kg	7.4	2.5	SW846 6010C	#
Beryllium, Total	3.3J	mg/kg	7.4	2.5	SW846 6010C	#
Calcium, Total	75600	mg/kg	73.9	24.6	SW846 6010C	#
Chromium, Total	45.5	mg/kg	7.4	2.5	SW846 6010C	#
Cobalt, Total	17.4	mg/kg	7.4	2.5	SW846 6010C	#
Copper, Total	71.0	mg/kg	14.8	4.9	SW846 6010C	#
Iron, Total	47300	mg/kg	73.9	24.6	SW846 6010C	#
Lead, Total	48.8	mg/kg	14.8	4.9	SW846 6010C	#
Magnesium, Total	20500	mg/kg	73.9	24.6	SW846 6010C	#
Manganese, Total	1550	mg/kg	7.4	2.5	SW846 6010C	#
Mercury, Total	0.28	mg/kg	0.075	0.024	SW846 7471B	#
Nickel, Total	28.4	mg/kg	14.8	4.9	SW846 6010C	#
Potassium, Total	1420	mg/kg	370	123	SW846 6010C	#
Sodium, Total	599	mg/kg	370	123	SW846 6010C	#
Vanadium, Total	19.2	mg/kg	7.4	2.5	SW846 6010C	#
Zinc, Total	173	mg/kg	14.8	4.9	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	1020	ug/kg	590	100	SW846 8270E	#
Acenaphthene	1020	ug/kg	295	100	SW846 8270E	#
Acenaphthylene	1140	ug/kg	295	100	SW846 8270E	#
Anthracene	2530	ug/kg	295	100	SW846 8270E	#
Benzo(a)anthracene	4380	ug/kg	295	100	SW846 8270E	#
Benzo(a)pyrene	3880	ug/kg	295	100	SW846 8270E	#
Benzo(b)fluoranthene	3300	ug/kg	295	100	SW846 8270E	#
Benzo(g,h,i)perylene	1820	ug/kg	295	100	SW846 8270E	#
Benzo(k)fluoranthene	3310	ug/kg	295	100	SW846 8270E	#
Biphenyl	203J	ug/kg	590	100	SW846 8270E	#
Carbazole	505J	ug/kg	590	100	SW846 8270E	#
Chrysene	4740	ug/kg	295	100	SW846 8270E	#
Dibenzo(a,h)anthracene	576	ug/kg	295	100	SW846 8270E	#
Dibenzofuran	624	ug/kg	590	100	SW846 8270E	#
Fluoranthene	12000	ug/kg	295	100	SW846 8270E	#
Fluorene	1060	ug/kg	295	100	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	1890	ug/kg	295	100	SW846 8270E	#
mp-Cresol	242J	ug/kg	1180	201	SW846 8270E	#
Naphthalene	2890	ug/kg	295	100	SW846 8270E	#
Phenanthrene	5990	ug/kg	295	100	SW846 8270E	#
Pyrene	7270	ug/kg	295	100	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	59.4J	ug/kg	118	29.4	SW846 8260D	#
1,3,5-Trimethylbenzene	43.3J	ug/kg	118	23.5	SW846 8260D	#
Benzene	71.7J	ug/kg	118	27.1	SW846 8260D	#
Bromomethane	81.3J	ug/kg	118	45.9	SW846 8260D	#
Carbon Disulfide	78.1J	ug/kg	118	27.1	SW846 8260D	#

Detected Results Summary

Sample - SB-207-10 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Methyl acetate	533	ug/kg	235	37.6	SW846 8260D	#
Methyl cyclohexane	151	ug/kg	118	35.3	SW846 8260D	#
mp-Xylene	118J	ug/kg	235	61.2	SW846 8260D	#
o-Xylene	55.3J	ug/kg	118	38.8	SW846 8260D	#
Toluene	304	ug/kg	118	27.1	SW846 8260D	#
Total Xylenes	173J	ug/kg	353	77.6	SW846 8260D	#
WET CHEMISTRY						
Moisture	38.4	%	0.1	0.01	S2540G-15	#
Total Solids	61.6	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-209-8.5	Collected	11/14/2024 09:00
Lab Sample ID	3387962002	Lab Receipt	11/15/2024 09:13

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	10100	mg/kg	60.9	20.3	SW846 6010C	#
Arsenic, Total	18.8	mg/kg	12.2	4.1	SW846 6010C	#
Barium, Total	46.7	mg/kg	6.1	2.0	SW846 6010C	#
Calcium, Total	6830	mg/kg	244	81.1	SW846 6010C	#
Chromium, Total	14.9	mg/kg	6.1	2.0	SW846 6010C	#
Cobalt, Total	7.1	mg/kg	6.1	2.0	SW846 6010C	#
Copper, Total	25.7	mg/kg	12.2	4.1	SW846 6010C	#
Iron, Total	27300	mg/kg	60.9	20.3	SW846 6010C	#
Lead, Total	15.2	mg/kg	12.2	4.1	SW846 6010C	#
Magnesium, Total	4810	mg/kg	60.9	20.3	SW846 6010C	#
Manganese, Total	244	mg/kg	6.1	2.0	SW846 6010C	#
Mercury, Total	0.030J	mg/kg	0.053	0.017	SW846 7471B	#
Nickel, Total	23.1	mg/kg	12.2	4.1	SW846 6010C	#
Potassium, Total	1190	mg/kg	305	102	SW846 6010C	#
Sodium, Total	237J	mg/kg	305	102	SW846 6010C	#
Vanadium, Total	18.4	mg/kg	6.1	2.0	SW846 6010C	#
Zinc, Total	87.1	mg/kg	12.2	4.1	SW846 6010C	#
VOLATILE ORGANICS						
Carbon Disulfide	11.8J	ug/kg	50.6	11.6	SW846 8260D	#
Methyl acetate	65.8J	ug/kg	101	16.2	SW846 8260D	#
Methyl cyclohexane	47.9J	ug/kg	50.6	15.2	SW846 8260D	#
WET CHEMISTRY						
Moisture	18.7	%	0.1	0.01	S2540G-15	#
Total Solids	81.3	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-211-11.5	Collected	11/14/2024 09:55
Lab Sample ID	3387962003	Lab Receipt	11/15/2024 09:13

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	10800	mg/kg	58.4	19.4	SW846 6010C	#
Arsenic, Total	20.0	mg/kg	11.7	3.9	SW846 6010C	#
Barium, Total	57.8	mg/kg	5.8	1.9	SW846 6010C	#
Calcium, Total	12600	mg/kg	58.4	19.4	SW846 6010C	#
Chromium, Total	17.0	mg/kg	5.8	1.9	SW846 6010C	#
Cobalt, Total	10.9	mg/kg	5.8	1.9	SW846 6010C	#
Copper, Total	31.8	mg/kg	11.7	3.9	SW846 6010C	#
Iron, Total	35200	mg/kg	58.4	19.4	SW846 6010C	#
Lead, Total	24.9	mg/kg	11.7	3.9	SW846 6010C	#
Magnesium, Total	5390	mg/kg	58.4	19.4	SW846 6010C	#
Manganese, Total	587	mg/kg	5.8	1.9	SW846 6010C	#
Mercury, Total	0.076	mg/kg	0.059	0.019	SW846 7471B	#
Nickel, Total	22.4	mg/kg	11.7	3.9	SW846 6010C	#
Potassium, Total	969	mg/kg	292	97.5	SW846 6010C	#
Sodium, Total	223J	mg/kg	292	97.5	SW846 6010C	#
Vanadium, Total	17.2	mg/kg	5.8	1.9	SW846 6010C	#
Zinc, Total	116	mg/kg	11.7	3.9	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	103J	ug/kg	432	73.5	SW846 8270E	#
Anthracene	149J	ug/kg	216	73.5	SW846 8270E	#
Benzo(a)anthracene	361	ug/kg	216	73.5	SW846 8270E	#
Benzo(a)pyrene	277	ug/kg	216	73.5	SW846 8270E	#
Benzo(b)fluoranthene	276	ug/kg	216	73.5	SW846 8270E	#
Benzo(g,h,i)perylene	226	ug/kg	216	73.5	SW846 8270E	#
Benzo(k)fluoranthene	230	ug/kg	216	73.5	SW846 8270E	#
Chrysene	393	ug/kg	216	73.5	SW846 8270E	#
Fluoranthene	683	ug/kg	216	73.5	SW846 8270E	#
Fluorene	105J	ug/kg	216	73.5	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	202J	ug/kg	216	73.5	SW846 8270E	#
Naphthalene	162J	ug/kg	216	73.5	SW846 8270E	#
Phenanthrene	569	ug/kg	216	73.5	SW846 8270E	#
Pyrene	528	ug/kg	216	73.5	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	28.1J	ug/kg	56.7	13.0	SW846 8260D	#
Bromomethane	29.5J	ug/kg	56.7	22.1	SW846 8260D	#
Methyl acetate	73.7J	ug/kg	113	18.1	SW846 8260D	#
Methyl cyclohexane	69.0	ug/kg	56.7	17.0	SW846 8260D	#
mp-Xylene	45.9J	ug/kg	113	29.5	SW846 8260D	#
o-Xylene	20.6J	ug/kg	56.7	18.7	SW846 8260D	#
Toluene	74.9	ug/kg	56.7	13.0	SW846 8260D	#
Total Xylenes	66.5J	ug/kg	170	37.4	SW846 8260D	#
WET CHEMISTRY						
Moisture	15.9	%	0.1	0.01	S2540G-15	#
Total Solids	84.1	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-213-11	Collected	11/14/2024 10:35
Lab Sample ID	3387962004	Lab Receipt	11/15/2024 09:13

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	11900	mg/kg	58.5	19.5	SW846 6010C	#
Arsenic, Total	30.2	mg/kg	11.7	3.9	SW846 6010C	#
Barium, Total	119	mg/kg	5.8	1.9	SW846 6010C	#
Calcium, Total	69400	mg/kg	58.5	19.5	SW846 6010C	#
Chromium, Total	19.2	mg/kg	5.8	1.9	SW846 6010C	#
Cobalt, Total	18.8	mg/kg	5.8	1.9	SW846 6010C	#
Copper, Total	37.9	mg/kg	11.7	3.9	SW846 6010C	#
Iron, Total	74400	mg/kg	58.5	19.5	SW846 6010C	#
Lead, Total	48.0	mg/kg	11.7	3.9	SW846 6010C	#
Magnesium, Total	13300	mg/kg	58.5	19.5	SW846 6010C	#
Manganese, Total	1950	mg/kg	5.8	1.9	SW846 6010C	#
Mercury, Total	0.056	mg/kg	0.054	0.017	SW846 7471B	#
Nickel, Total	22.0	mg/kg	11.7	3.9	SW846 6010C	#
Potassium, Total	1170	mg/kg	292	97.7	SW846 6010C	#
Sodium, Total	328	mg/kg	292	97.7	SW846 6010C	#
Thallium, Total	6.1J	mg/kg	17.5	5.8	SW846 6010C	#
Vanadium, Total	18.3	mg/kg	5.8	1.9	SW846 6010C	#
Zinc, Total	220	mg/kg	11.7	3.9	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	225J	ug/kg	453	76.9	SW846 8270E	#
Acenaphthylene	103J	ug/kg	226	76.9	SW846 8270E	#
Anthracene	152J	ug/kg	226	76.9	SW846 8270E	#
Benzo(a)anthracene	420	ug/kg	226	76.9	SW846 8270E	#
Benzo(a)pyrene	376	ug/kg	226	76.9	SW846 8270E	#
Benzo(b)fluoranthene	370	ug/kg	226	76.9	SW846 8270E	#
Benzo(g,h,i)perylene	286	ug/kg	226	76.9	SW846 8270E	#
Benzo(k)fluoranthene	372	ug/kg	226	76.9	SW846 8270E	#
Chrysene	504	ug/kg	226	76.9	SW846 8270E	#
Dibenzo(a,h)anthracene	101J	ug/kg	226	76.9	SW846 8270E	#
Dibenzofuran	122J	ug/kg	453	76.9	SW846 8270E	#
Fluoranthene	716	ug/kg	226	76.9	SW846 8270E	#
Fluorene	131J	ug/kg	226	76.9	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	279	ug/kg	226	76.9	SW846 8270E	#
Naphthalene	316	ug/kg	226	76.9	SW846 8270E	#
Phenanthrene	515	ug/kg	226	76.9	SW846 8270E	#
Pyrene	589	ug/kg	226	76.9	SW846 8270E	#
VOLATILE ORGANICS						
Bromomethane	37.6J	ug/kg	56.7	22.1	SW846 8260D	#
Methyl acetate	47.5J	ug/kg	113	18.1	SW846 8260D	#
Methyl cyclohexane	158	ug/kg	56.7	17.0	SW846 8260D	#
Toluene	25.8J	ug/kg	56.7	13.0	SW846 8260D	#
WET CHEMISTRY						
Moisture	15.0	%	0.1	0.01	S2540G-15	#
Total Solids	85.0	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-216-7	Collected	11/14/2024 15:30
Lab Sample ID	3387962005	Lab Receipt	11/15/2024 09:13

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	37200	mg/kg	52.5	17.5	SW846 6010C	#
Arsenic, Total	7.7J	mg/kg	10.5	3.5	SW846 6010C	#
Barium, Total	305	mg/kg	5.2	1.7	SW846 6010C	#
Beryllium, Total	7.1	mg/kg	5.2	1.7	SW846 6010C	#
Calcium, Total	154000	mg/kg	52.5	17.5	SW846 6010C	#
Chromium, Total	10.7	mg/kg	5.2	1.7	SW846 6010C	#
Cobalt, Total	3.4J	mg/kg	5.2	1.7	SW846 6010C	#
Copper, Total	28.8	mg/kg	10.5	3.5	SW846 6010C	#
Iron, Total	26700	mg/kg	52.5	17.5	SW846 6010C	#
Lead, Total	114	mg/kg	10.5	3.5	SW846 6010C	#
Magnesium, Total	17700	mg/kg	52.5	17.5	SW846 6010C	#
Manganese, Total	3870	mg/kg	5.2	1.7	SW846 6010C	#
Mercury, Total	0.63	mg/kg	0.059	0.019	SW846 7471B	#
Nickel, Total	8.1J	mg/kg	10.5	3.5	SW846 6010C	#
Potassium, Total	9120	mg/kg	262	87.7	SW846 6010C	#
Sodium, Total	2220	mg/kg	262	87.7	SW846 6010C	#
Vanadium, Total	17.1	mg/kg	5.2	1.7	SW846 6010C	#
Zinc, Total	92.7	mg/kg	10.5	3.5	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	202J	ug/kg	442	75.1	SW846 8270E	#
Benzo(a)anthracene	108J	ug/kg	221	75.1	SW846 8270E	#
Benzo(g,h,i)perylene	85.2J	ug/kg	221	75.1	SW846 8270E	#
Chrysene	113J	ug/kg	221	75.1	SW846 8270E	#
Fluoranthene	112J	ug/kg	221	75.1	SW846 8270E	#
Naphthalene	116J	ug/kg	221	75.1	SW846 8270E	#
Phenanthrene	198J	ug/kg	221	75.1	SW846 8270E	#
Pyrene	102J	ug/kg	221	75.1	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	40.0J	ug/kg	50.5	12.6	SW846 8260D	#
1,3,5-Trimethylbenzene	28.0J	ug/kg	50.5	10.1	SW846 8260D	#
Benzene	65.5	ug/kg	50.5	11.6	SW846 8260D	#
Bromomethane	27.0J	ug/kg	50.5	19.7	SW846 8260D	#
Cyclohexane	68.4	ug/kg	50.5	14.6	SW846 8260D	#
Methyl acetate	83.1J	ug/kg	101	16.1	SW846 8260D	#
Methyl cyclohexane	294	ug/kg	50.5	15.1	SW846 8260D	#
mp-Xylene	69.0J	ug/kg	101	26.2	SW846 8260D	#
o-Xylene	44.6J	ug/kg	50.5	16.6	SW846 8260D	#
Toluene	47.8J	ug/kg	50.5	11.6	SW846 8260D	#
Total Xylenes	114J	ug/kg	151	33.3	SW846 8260D	#
WET CHEMISTRY						
Moisture	16.2	%	0.1	0.01	S2540G-15	#
Total Solids	83.8	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	TB-3	Collected	11/14/2024 15:30
Lab Sample ID	3387962006	Lab Receipt	11/15/2024 09:13

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS						
Methyl acetate	0.43J	ug/L	2.0	0.32	SW846 8260D	#

Results

Client Sample ID	SB-207-10	Collected	11/14/2024 08:15
Lab Sample ID	3387962001	Lab Receipt	11/15/2024 09:13

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	16200		mg/kg	73.9	24.6	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Antimony, Total	ND	ND	mg/kg	14.8	4.9	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Arsenic, Total	21.0		mg/kg	14.8	4.9	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Barium, Total	162		mg/kg	7.4	2.5	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Beryllium, Total	3.3J	J	mg/kg	7.4	2.5	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Cadmium, Total	ND	ND	mg/kg	3.7	1.2	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Calcium, Total	75600		mg/kg	73.9	24.6	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Chromium, Total	45.5		mg/kg	7.4	2.5	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Cobalt, Total	17.4		mg/kg	7.4	2.5	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Copper, Total	71.0		mg/kg	14.8	4.9	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Iron, Total	47300		mg/kg	73.9	24.6	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Lead, Total	48.8		mg/kg	14.8	4.9	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Magnesium, Total	20500		mg/kg	73.9	24.6	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Manganese, Total	1550		mg/kg	7.4	2.5	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Mercury, Total	0.28		mg/kg	0.075	0.024	SW846 7471B	1	11/26/2024 11:03	JMS	F
Nickel, Total	28.4		mg/kg	14.8	4.9	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Potassium, Total	1420		mg/kg	370	123	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Selenium, Total	ND	ND	mg/kg	37.0	12.3	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Silver, Total	ND	ND	mg/kg	3.7	1.2	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Sodium, Total	599		mg/kg	370	123	SW846 6010C	5	12/03/2024 11:50	MSY	F1
Thallium, Total	ND	ND	mg/kg	22.2	7.4	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Vanadium, Total	19.2		mg/kg	7.4	2.5	SW846 6010C	5	11/25/2024 15:00	MSY	F1
Zinc, Total	173		mg/kg	14.8	4.9	SW846 6010C	5	11/25/2024 15:00	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
1,4-Dioxane	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	1180	201	SW846 8270E	4	11/20/2024 02:10	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	1180	201	SW846 8270E	4	11/20/2024 02:10	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	1180	201	SW846 8270E	4	11/20/2024 02:10	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	1180	201	SW846 8270E	4	11/20/2024 02:10	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	1180	201	SW846 8270E	4	11/20/2024 02:10	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	2360	1170	SW846 8270E	4	11/20/2024 02:10	S7M	F
2,4-Dinitrotoluene	ND	ND	ug/kg	590	118	SW846 8270E	4	11/20/2024 02:10	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	590	201	SW846 8270E	4	11/20/2024 02:10	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
2-Chlorophenol	ND	ND	ug/kg	1180	201	SW846 8270E	4	11/20/2024 02:10	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	1180	295	SW846 8270E	4	11/20/2024 02:10	S7M	F
2-Methylnaphthalene	1020		ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
2-Nitroaniline	ND	ND	ug/kg	1180	136	SW846 8270E	4	11/20/2024 02:10	S7M	F
2-Nitrophenol	ND	ND	ug/kg	1180	201	SW846 8270E	4	11/20/2024 02:10	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	1180	183	SW846 8270E	4	11/20/2024 02:10	S7M	F
3-Nitroaniline	ND	ND	ug/kg	1180	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	1180	201	SW846 8270E	4	11/20/2024 02:10	S7M	F

Results

Client Sample ID	SB-207-10	Collected	11/14/2024 08:15
Lab Sample ID	3387962001	Lab Receipt	11/15/2024 09:13

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	1180	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
4-Nitroaniline	ND	ND	ug/kg	1180	171	SW846 8270E	4	11/20/2024 02:10	S7M	F
4-Nitrophenol	ND	ND,7	ug/kg	1180	201	SW846 8270E	4	11/20/2024 02:10	S7M	F
Acenaphthene	1020		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Acenaphthylene	1140		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Acetophenone	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Anthracene	2530		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Atrazine	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Benzaldehyde	ND	ND	ug/kg	1180	118	SW846 8270E	4	11/20/2024 02:10	S7M	F
Benzo(a)anthracene	4380		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Benzo(a)pyrene	3880		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Benzo(b)fluoranthene	3300		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Benzo(g,h,i)perylene	1820		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Benzo(k)fluoranthene	3310		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Biphenyl	203J	J	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	590	130	SW846 8270E	4	11/20/2024 02:10	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Caprolactam	ND	ND	ug/kg	1180	230	SW846 8270E	4	11/20/2024 02:10	S7M	F
Carbazole	505J	J	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Chrysene	4740		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Dibenzo(a,h)anthracene	576		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Dibenzofuran	624		ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Diethylphthalate	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Dimethylphthalate	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	590	207	SW846 8270E	4	11/20/2024 02:10	S7M	F
Di-n-Octylphthalate	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Fluoranthene	12000		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Fluorene	1060		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	1180	177	SW846 8270E	4	11/20/2024 02:10	S7M	F
Hexachloroethane	ND	ND	ug/kg	590	136	SW846 8270E	4	11/20/2024 02:10	S7M	F
Indeno(1,2,3-cd)pyrene	1890		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Isophorone	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
mp-Cresol	242J	J,6	ug/kg	1180	201	SW846 8270E	4	11/20/2024 02:10	S7M	F
Naphthalene	2890		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Nitrobenzene	ND	ND	ug/kg	590	201	SW846 8270E	4	11/20/2024 02:10	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	590	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
o-Cresol	ND	ND	ug/kg	1180	201	SW846 8270E	4	11/20/2024 02:10	S7M	F
Pentachlorophenol	ND	ND	ug/kg	1180	289	SW846 8270E	4	11/20/2024 02:10	S7M	F
Phenanthrene	5990		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F
Phenol	ND	ND	ug/kg	1180	201	SW846 8270E	4	11/20/2024 02:10	S7M	F

Results

Client Sample ID	SB-207-10	Collected	11/14/2024 08:15
Lab Sample ID	3387962001	Lab Receipt	11/15/2024 09:13

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	7270		ug/kg	295	100	SW846 8270E	4	11/20/2024 02:10	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	62.7%	19 – 132	11/20/2024 02:10	
2-Fluorobiphenyl	321-60-8	68.3%	40 – 110	11/20/2024 02:10	
2-Fluorophenol	367-12-4	53.3%	26 – 116	11/20/2024 02:10	
Nitrobenzene-d5	4165-60-0	61.7%	38 – 112	11/20/2024 02:10	
Phenol-d5	4165-62-2	60.7%	35 – 111	11/20/2024 02:10	
Terphenyl-d14	98904-43-9	72.5%	45 – 126	11/20/2024 02:10	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	118	25.9	SW846 8260D	50	11/27/2024 19:59	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	118	40.0	SW846 8260D	50	11/27/2024 19:59	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	118	38.8	SW846 8260D	50	11/27/2024 19:59	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	118	32.9	SW846 8260D	50	11/27/2024 19:59	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	118	34.1	SW846 8260D	50	11/27/2024 19:59	BST	A
1,2,3-Trichlorobenzene	ND	ND,5	ug/kg	235	109	SW846 8260D	50	11/27/2024 19:59	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	235	70.6	SW846 8260D	50	11/27/2024 19:59	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	235	96.5	SW846 8260D	50	11/27/2024 19:59	BST	A
1,2,4-Trimethylbenzene	59.4J	J	ug/kg	118	29.4	SW846 8260D	50	11/27/2024 19:59	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	824	176	SW846 8260D	50	11/27/2024 19:59	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	118	32.9	SW846 8260D	50	11/27/2024 19:59	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	118	44.7	SW846 8260D	50	11/27/2024 19:59	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	118	37.6	SW846 8260D	50	11/27/2024 19:59	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	235	52.9	SW846 8260D	50	11/27/2024 19:59	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	118	28.2	SW846 8260D	50	11/27/2024 19:59	BST	A
1,3,5-Trimethylbenzene	43.3J	J	ug/kg	118	23.5	SW846 8260D	50	11/27/2024 19:59	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	118	29.4	SW846 8260D	50	11/27/2024 19:59	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	118	31.8	SW846 8260D	50	11/27/2024 19:59	BST	A
2-Butanone	ND	ND,2	ug/kg	1180	212	SW846 8260D	50	11/27/2024 19:59	BST	A
2-Hexanone	ND	ND	ug/kg	588	153	SW846 8260D	50	11/27/2024 19:59	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,4	ug/kg	588	176	SW846 8260D	50	11/27/2024 19:59	BST	A
Acetone	ND	ND	ug/kg	1180	365	SW846 8260D	50	11/27/2024 19:59	BST	A
Benzene	71.7J	J	ug/kg	118	27.1	SW846 8260D	50	11/27/2024 19:59	BST	A
Bromochloromethane	ND	ND	ug/kg	118	37.6	SW846 8260D	50	11/27/2024 19:59	BST	A
Bromodichloromethane	ND	ND	ug/kg	118	31.8	SW846 8260D	50	11/27/2024 19:59	BST	A
Bromoform	ND	ND,1	ug/kg	118	47.1	SW846 8260D	50	11/27/2024 19:59	BST	A
Bromomethane	81.3J	J	ug/kg	118	45.9	SW846 8260D	50	11/27/2024 19:59	BST	A
Carbon Disulfide	78.1J	J	ug/kg	118	27.1	SW846 8260D	50	11/27/2024 19:59	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	118	36.5	SW846 8260D	50	11/27/2024 19:59	BST	A
Chlorobenzene	ND	ND	ug/kg	118	22.4	SW846 8260D	50	11/27/2024 19:59	BST	A
Chlorodibromomethane	ND	ND	ug/kg	118	52.9	SW846 8260D	50	11/27/2024 19:59	BST	A
Chloroethane	ND	ND	ug/kg	118	38.8	SW846 8260D	50	11/27/2024 19:59	BST	A

Results

Client Sample ID	SB-207-10	Collected	11/14/2024 08:15
Lab Sample ID	3387962001	Lab Receipt	11/15/2024 09:13

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	118	24.7	SW846 8260D	50	11/27/2024 19:59	BST	A
Chloromethane	ND	ND	ug/kg	118	36.5	SW846 8260D	50	11/27/2024 19:59	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	118	37.6	SW846 8260D	50	11/27/2024 19:59	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	118	36.5	SW846 8260D	50	11/27/2024 19:59	BST	A
Cyclohexane	ND	ND	ug/kg	118	34.1	SW846 8260D	50	11/27/2024 19:59	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	118	38.8	SW846 8260D	50	11/27/2024 19:59	BST	A
Ethylbenzene	ND	ND	ug/kg	118	40.0	SW846 8260D	50	11/27/2024 19:59	BST	A
Freon 113	ND	ND	ug/kg	118	30.6	SW846 8260D	50	11/27/2024 19:59	BST	A
Isopropylbenzene	ND	ND	ug/kg	118	25.9	SW846 8260D	50	11/27/2024 19:59	BST	A
Methyl acetate	533	3	ug/kg	235	37.6	SW846 8260D	50	11/27/2024 19:59	BST	A
Methyl cyclohexane	151		ug/kg	118	35.3	SW846 8260D	50	11/27/2024 19:59	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	118	38.8	SW846 8260D	50	11/27/2024 19:59	BST	A
Methylene Chloride	ND	ND	ug/kg	118	52.9	SW846 8260D	50	11/27/2024 19:59	BST	A
mp-Xylene	118J	J	ug/kg	235	61.2	SW846 8260D	50	11/27/2024 19:59	BST	A
o-Xylene	55.3J	J	ug/kg	118	38.8	SW846 8260D	50	11/27/2024 19:59	BST	A
Styrene	ND	ND	ug/kg	118	28.2	SW846 8260D	50	11/27/2024 19:59	BST	A
Tetrachloroethene	ND	ND	ug/kg	118	41.2	SW846 8260D	50	11/27/2024 19:59	BST	A
Toluene	304		ug/kg	118	27.1	SW846 8260D	50	11/27/2024 19:59	BST	A
Total Xylenes	173J	J	ug/kg	353	77.6	SW846 8260D	50	11/27/2024 19:59	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	118	30.6	SW846 8260D	50	11/27/2024 19:59	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	118	34.1	SW846 8260D	50	11/27/2024 19:59	BST	A
Trichloroethene	ND	ND	ug/kg	118	38.8	SW846 8260D	50	11/27/2024 19:59	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	118	28.2	SW846 8260D	50	11/27/2024 19:59	BST	A
Vinyl Chloride	ND	ND	ug/kg	118	35.3	SW846 8260D	50	11/27/2024 19:59	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	95%	71 – 146	11/27/2024 19:59	
4-Bromofluorobenzene	460-00-4	107%	46 – 138	11/27/2024 19:59	
Dibromofluoromethane	1868-53-7	94%	42 – 143	11/27/2024 19:59	
Toluene-d8	2037-26-5	99.9%	54 – 141	11/27/2024 19:59	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	38.4		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A
Total Solids	61.6		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A

Results

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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	10100	11	mg/kg	60.9	20.3	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Antimony, Total	ND	ND	mg/kg	12.2	4.1	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Arsenic, Total	18.8		mg/kg	12.2	4.1	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Barium, Total	46.7		mg/kg	6.1	2.0	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Beryllium, Total	ND	ND	mg/kg	6.1	2.0	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Cadmium, Total	ND	ND	mg/kg	3.0	1.0	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Calcium, Total	6830	12,13,14	mg/kg	244	81.1	SW846 6010C	20	12/05/2024 09:53	MSY	F1
Chromium, Total	14.9		mg/kg	6.1	2.0	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Cobalt, Total	7.1		mg/kg	6.1	2.0	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Copper, Total	25.7		mg/kg	12.2	4.1	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Iron, Total	27300	11	mg/kg	60.9	20.3	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Lead, Total	15.2		mg/kg	12.2	4.1	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Magnesium, Total	4810	14,15,16	mg/kg	60.9	20.3	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Manganese, Total	244	14,17,18	mg/kg	6.1	2.0	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Mercury, Total	0.030J	J	mg/kg	0.053	0.017	SW846 7471B	1	11/26/2024 11:13	JMS	F
Nickel, Total	23.1		mg/kg	12.2	4.1	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Potassium, Total	1190	19	mg/kg	305	102	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Selenium, Total	ND	ND	mg/kg	30.5	10.2	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Silver, Total	ND	ND	mg/kg	3.0	1.0	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Sodium, Total	237J	J	mg/kg	305	102	SW846 6010C	5	12/03/2024 11:38	MSY	F1
Thallium, Total	ND	ND	mg/kg	18.3	6.1	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Vanadium, Total	18.4		mg/kg	6.1	2.0	SW846 6010C	5	11/25/2024 14:07	MSY	F1
Zinc, Total	87.1		mg/kg	12.2	4.1	SW846 6010C	5	11/25/2024 14:07	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
1,4-Dioxane	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	863	147	SW846 8270E	4	11/20/2024 14:10	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	863	147	SW846 8270E	4	11/20/2024 14:10	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	863	147	SW846 8270E	4	11/20/2024 14:10	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	863	147	SW846 8270E	4	11/20/2024 14:10	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	863	147	SW846 8270E	4	11/20/2024 14:10	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	1730	855	SW846 8270E	4	11/20/2024 14:10	S7M	F
2,4-Dinitrotoluene	ND	ND,8	ug/kg	432	86.3	SW846 8270E	4	11/20/2024 14:10	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	432	147	SW846 8270E	4	11/20/2024 14:10	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
2-Chlorophenol	ND	ND	ug/kg	863	147	SW846 8270E	4	11/20/2024 14:10	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,9	ug/kg	863	216	SW846 8270E	4	11/20/2024 14:10	S7M	F
2-Methylnaphthalene	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
2-Nitroaniline	ND	ND	ug/kg	863	99.3	SW846 8270E	4	11/20/2024 14:10	S7M	F
2-Nitrophenol	ND	ND,10	ug/kg	863	147	SW846 8270E	4	11/20/2024 14:10	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	863	134	SW846 8270E	4	11/20/2024 14:10	S7M	F
3-Nitroaniline	ND	ND	ug/kg	863	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	863	147	SW846 8270E	4	11/20/2024 14:10	S7M	F

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	863	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
4-Nitroaniline	ND	ND	ug/kg	863	125	SW846 8270E	4	11/20/2024 14:10	S7M	F
4-Nitrophenol	ND	ND	ug/kg	863	147	SW846 8270E	4	11/20/2024 14:10	S7M	F
Acenaphthene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Acenaphthylene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Acetophenone	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Anthracene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Atrazine	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Benzaldehyde	ND	ND	ug/kg	863	86.3	SW846 8270E	4	11/20/2024 14:10	S7M	F
Benzo(a)anthracene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Benzo(a)pyrene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Benzo(b)fluoranthene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Benzo(g,h,i)perylene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Benzo(k)fluoranthene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Biphenyl	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	432	95.0	SW846 8270E	4	11/20/2024 14:10	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Caprolactam	ND	ND	ug/kg	863	168	SW846 8270E	4	11/20/2024 14:10	S7M	F
Carbazole	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Chrysene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Dibenzo(a,h)anthracene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Dibenzofuran	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Diethylphthalate	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Dimethylphthalate	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	432	151	SW846 8270E	4	11/20/2024 14:10	S7M	F
Di-n-Octylphthalate	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Fluoranthene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Fluorene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	863	130	SW846 8270E	4	11/20/2024 14:10	S7M	F
Hexachloroethane	ND	ND	ug/kg	432	99.3	SW846 8270E	4	11/20/2024 14:10	S7M	F
Indeno(1,2,3-cd)pyrene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Isophorone	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
mp-Cresol	ND	ND	ug/kg	863	147	SW846 8270E	4	11/20/2024 14:10	S7M	F
Naphthalene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Nitrobenzene	ND	ND	ug/kg	432	147	SW846 8270E	4	11/20/2024 14:10	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	432	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
o-Cresol	ND	ND	ug/kg	863	147	SW846 8270E	4	11/20/2024 14:10	S7M	F
Pentachlorophenol	ND	ND	ug/kg	863	212	SW846 8270E	4	11/20/2024 14:10	S7M	F
Phenanthrene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F
Phenol	ND	ND	ug/kg	863	147	SW846 8270E	4	11/20/2024 14:10	S7M	F

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	ND	ND	ug/kg	216	73.4	SW846 8270E	4	11/20/2024 14:10	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	87.3%	19 – 132	11/20/2024 14:10	
2-Fluorobiphenyl	321-60-8	77.8%	40 – 110	11/20/2024 14:10	
2-Fluorophenol	367-12-4	72.2%	26 – 116	11/20/2024 14:10	
Nitrobenzene-d5	4165-60-0	82.6%	38 – 112	11/20/2024 14:10	
Phenol-d5	4165-62-2	73%	35 – 111	11/20/2024 14:10	
Terphenyl-d14	98904-43-9	104%	45 – 126	11/20/2024 14:10	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	50.6	11.1	SW846 8260D	50	11/27/2024 20:20	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	50.6	17.2	SW846 8260D	50	11/27/2024 20:20	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	50.6	16.7	SW846 8260D	50	11/27/2024 20:20	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	50.6	14.2	SW846 8260D	50	11/27/2024 20:20	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	50.6	14.7	SW846 8260D	50	11/27/2024 20:20	BST	A
1,2,3-Trichlorobenzene	ND	ND,5	ug/kg	101	47.1	SW846 8260D	50	11/27/2024 20:20	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	101	30.4	SW846 8260D	50	11/27/2024 20:20	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	101	41.5	SW846 8260D	50	11/27/2024 20:20	BST	A
1,2,4-Trimethylbenzene	ND	ND	ug/kg	50.6	12.6	SW846 8260D	50	11/27/2024 20:20	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	354	75.9	SW846 8260D	50	11/27/2024 20:20	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	50.6	14.2	SW846 8260D	50	11/27/2024 20:20	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	50.6	19.2	SW846 8260D	50	11/27/2024 20:20	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	50.6	16.2	SW846 8260D	50	11/27/2024 20:20	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	101	22.8	SW846 8260D	50	11/27/2024 20:20	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	50.6	12.1	SW846 8260D	50	11/27/2024 20:20	BST	A
1,3,5-Trimethylbenzene	ND	ND	ug/kg	50.6	10.1	SW846 8260D	50	11/27/2024 20:20	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	50.6	12.6	SW846 8260D	50	11/27/2024 20:20	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	50.6	13.7	SW846 8260D	50	11/27/2024 20:20	BST	A
2-Butanone	ND	ND,2	ug/kg	506	91.1	SW846 8260D	50	11/27/2024 20:20	BST	A
2-Hexanone	ND	ND	ug/kg	253	65.8	SW846 8260D	50	11/27/2024 20:20	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,4	ug/kg	253	75.9	SW846 8260D	50	11/27/2024 20:20	BST	A
Acetone	ND	ND	ug/kg	506	157	SW846 8260D	50	11/27/2024 20:20	BST	A
Benzene	ND	ND	ug/kg	50.6	11.6	SW846 8260D	50	11/27/2024 20:20	BST	A
Bromochloromethane	ND	ND	ug/kg	50.6	16.2	SW846 8260D	50	11/27/2024 20:20	BST	A
Bromodichloromethane	ND	ND	ug/kg	50.6	13.7	SW846 8260D	50	11/27/2024 20:20	BST	A
Bromoform	ND	ND,1	ug/kg	50.6	20.2	SW846 8260D	50	11/27/2024 20:20	BST	A
Bromomethane	ND	ND	ug/kg	50.6	19.7	SW846 8260D	50	11/27/2024 20:20	BST	A
Carbon Disulfide	11.8J	J	ug/kg	50.6	11.6	SW846 8260D	50	11/27/2024 20:20	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	50.6	15.7	SW846 8260D	50	11/27/2024 20:20	BST	A
Chlorobenzene	ND	ND	ug/kg	50.6	9.6	SW846 8260D	50	11/27/2024 20:20	BST	A
Chlorodibromomethane	ND	ND	ug/kg	50.6	22.8	SW846 8260D	50	11/27/2024 20:20	BST	A
Chloroethane	ND	ND	ug/kg	50.6	16.7	SW846 8260D	50	11/27/2024 20:20	BST	A

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	50.6	10.6	SW846 8260D	50	11/27/2024 20:20	BST	A
Chloromethane	ND	ND	ug/kg	50.6	15.7	SW846 8260D	50	11/27/2024 20:20	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	50.6	16.2	SW846 8260D	50	11/27/2024 20:20	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	50.6	15.7	SW846 8260D	50	11/27/2024 20:20	BST	A
Cyclohexane	ND	ND	ug/kg	50.6	14.7	SW846 8260D	50	11/27/2024 20:20	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	50.6	16.7	SW846 8260D	50	11/27/2024 20:20	BST	A
Ethylbenzene	ND	ND	ug/kg	50.6	17.2	SW846 8260D	50	11/27/2024 20:20	BST	A
Freon 113	ND	ND	ug/kg	50.6	13.2	SW846 8260D	50	11/27/2024 20:20	BST	A
Isopropylbenzene	ND	ND	ug/kg	50.6	11.1	SW846 8260D	50	11/27/2024 20:20	BST	A
Methyl acetate	65.8J	J,3	ug/kg	101	16.2	SW846 8260D	50	11/27/2024 20:20	BST	A
Methyl cyclohexane	47.9J	J	ug/kg	50.6	15.2	SW846 8260D	50	11/27/2024 20:20	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	50.6	16.7	SW846 8260D	50	11/27/2024 20:20	BST	A
Methylene Chloride	ND	ND	ug/kg	50.6	22.8	SW846 8260D	50	11/27/2024 20:20	BST	A
mp-Xylene	ND	ND	ug/kg	101	26.3	SW846 8260D	50	11/27/2024 20:20	BST	A
o-Xylene	ND	ND	ug/kg	50.6	16.7	SW846 8260D	50	11/27/2024 20:20	BST	A
Styrene	ND	ND	ug/kg	50.6	12.1	SW846 8260D	50	11/27/2024 20:20	BST	A
Tetrachloroethene	ND	ND	ug/kg	50.6	17.7	SW846 8260D	50	11/27/2024 20:20	BST	A
Toluene	ND	ND	ug/kg	50.6	11.6	SW846 8260D	50	11/27/2024 20:20	BST	A
Total Xylenes	ND	ND	ug/kg	152	33.4	SW846 8260D	50	11/27/2024 20:20	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	50.6	13.2	SW846 8260D	50	11/27/2024 20:20	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	50.6	14.7	SW846 8260D	50	11/27/2024 20:20	BST	A
Trichloroethene	ND	ND	ug/kg	50.6	16.7	SW846 8260D	50	11/27/2024 20:20	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	50.6	12.1	SW846 8260D	50	11/27/2024 20:20	BST	A
Vinyl Chloride	ND	ND	ug/kg	50.6	15.2	SW846 8260D	50	11/27/2024 20:20	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	93%	71 – 146	11/27/2024 20:20	
4-Bromofluorobenzene	460-00-4	101%	46 – 138	11/27/2024 20:20	
Dibromofluoromethane	1868-53-7	89.4%	42 – 143	11/27/2024 20:20	
Toluene-d8	2037-26-5	93.7%	54 – 141	11/27/2024 20:20	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	18.7		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A
Total Solids	81.3		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A

Results

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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	10800		mg/kg	58.4	19.4	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Antimony, Total	ND	ND	mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Arsenic, Total	20.0		mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Barium, Total	57.8		mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Beryllium, Total	ND	ND	mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Cadmium, Total	ND	ND	mg/kg	2.9	0.97	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Calcium, Total	12600		mg/kg	58.4	19.4	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Chromium, Total	17.0		mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Cobalt, Total	10.9		mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Copper, Total	31.8		mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Iron, Total	35200		mg/kg	58.4	19.4	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Lead, Total	24.9		mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Magnesium, Total	5390		mg/kg	58.4	19.4	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Manganese, Total	587		mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Mercury, Total	0.076		mg/kg	0.059	0.019	SW846 7471B	1	11/26/2024 11:01	JMS	F
Nickel, Total	22.4		mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Potassium, Total	969		mg/kg	292	97.5	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Selenium, Total	ND	ND	mg/kg	29.2	9.7	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Silver, Total	ND	ND	mg/kg	2.9	0.97	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Sodium, Total	223J	J	mg/kg	292	97.5	SW846 6010C	5	12/03/2024 11:37	MSY	F1
Thallium, Total	ND	ND	mg/kg	17.5	5.8	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Vanadium, Total	17.2		mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 14:05	MSY	F1
Zinc, Total	116		mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 14:05	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
1,4-Dioxane	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	864	147	SW846 8270E	4	11/20/2024 14:34	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	864	147	SW846 8270E	4	11/20/2024 14:34	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	864	147	SW846 8270E	4	11/20/2024 14:34	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	864	147	SW846 8270E	4	11/20/2024 14:34	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	864	147	SW846 8270E	4	11/20/2024 14:34	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	1730	856	SW846 8270E	4	11/20/2024 14:34	S7M	F
2,4-Dinitrotoluene	ND	ND,8	ug/kg	432	86.4	SW846 8270E	4	11/20/2024 14:34	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	432	147	SW846 8270E	4	11/20/2024 14:34	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
2-Chlorophenol	ND	ND	ug/kg	864	147	SW846 8270E	4	11/20/2024 14:34	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,9	ug/kg	864	216	SW846 8270E	4	11/20/2024 14:34	S7M	F
2-Methylnaphthalene	103J	J	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
2-Nitroaniline	ND	ND	ug/kg	864	99.4	SW846 8270E	4	11/20/2024 14:34	S7M	F
2-Nitrophenol	ND	ND,10	ug/kg	864	147	SW846 8270E	4	11/20/2024 14:34	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	864	134	SW846 8270E	4	11/20/2024 14:34	S7M	F
3-Nitroaniline	ND	ND	ug/kg	864	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	864	147	SW846 8270E	4	11/20/2024 14:34	S7M	F

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	864	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
4-Nitroaniline	ND	ND	ug/kg	864	125	SW846 8270E	4	11/20/2024 14:34	S7M	F
4-Nitrophenol	ND	ND	ug/kg	864	147	SW846 8270E	4	11/20/2024 14:34	S7M	F
Acenaphthene	ND	ND	ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Acenaphthylene	ND	ND	ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Acetophenone	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Anthracene	149J	J	ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Atrazine	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Benzaldehyde	ND	ND	ug/kg	864	86.4	SW846 8270E	4	11/20/2024 14:34	S7M	F
Benzo(a)anthracene	361		ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Benzo(a)pyrene	277		ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Benzo(b)fluoranthene	276		ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Benzo(g,h,i)perylene	226		ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Benzo(k)fluoranthene	230		ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Biphenyl	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	432	95.1	SW846 8270E	4	11/20/2024 14:34	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Caprolactam	ND	ND	ug/kg	864	169	SW846 8270E	4	11/20/2024 14:34	S7M	F
Carbazole	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Chrysene	393		ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Dibenzo(a,h)anthracene	ND	ND	ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Dibenzofuran	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Diethylphthalate	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Dimethylphthalate	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	432	151	SW846 8270E	4	11/20/2024 14:34	S7M	F
Di-n-Octylphthalate	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Fluoranthene	683		ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Fluorene	105J	J	ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	864	130	SW846 8270E	4	11/20/2024 14:34	S7M	F
Hexachloroethane	ND	ND	ug/kg	432	99.4	SW846 8270E	4	11/20/2024 14:34	S7M	F
Indeno(1,2,3-cd)pyrene	202J	J	ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Isophorone	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
mp-Cresol	ND	ND	ug/kg	864	147	SW846 8270E	4	11/20/2024 14:34	S7M	F
Naphthalene	162J	J	ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Nitrobenzene	ND	ND	ug/kg	432	147	SW846 8270E	4	11/20/2024 14:34	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	432	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
o-Cresol	ND	ND	ug/kg	864	147	SW846 8270E	4	11/20/2024 14:34	S7M	F
Pentachlorophenol	ND	ND	ug/kg	864	212	SW846 8270E	4	11/20/2024 14:34	S7M	F
Phenanthrene	569		ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F
Phenol	ND	ND	ug/kg	864	147	SW846 8270E	4	11/20/2024 14:34	S7M	F

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	528		ug/kg	216	73.5	SW846 8270E	4	11/20/2024 14:34	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	80.7%	19 – 132	11/20/2024 14:34	
2-Fluorobiphenyl	321-60-8	77.5%	40 – 110	11/20/2024 14:34	
2-Fluorophenol	367-12-4	68.6%	26 – 116	11/20/2024 14:34	
Nitrobenzene-d5	4165-60-0	82.6%	38 – 112	11/20/2024 14:34	
Phenol-d5	4165-62-2	70.7%	35 – 111	11/20/2024 14:34	
Terphenyl-d14	98904-43-9	96.5%	45 – 126	11/20/2024 14:34	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	56.7	12.5	SW846 8260D	50	11/27/2024 20:40	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	56.7	19.3	SW846 8260D	50	11/27/2024 20:40	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	56.7	18.7	SW846 8260D	50	11/27/2024 20:40	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	56.7	15.9	SW846 8260D	50	11/27/2024 20:40	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	56.7	16.4	SW846 8260D	50	11/27/2024 20:40	BST	A
1,2,3-Trichlorobenzene	ND	ND,5	ug/kg	113	52.7	SW846 8260D	50	11/27/2024 20:40	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	113	34.0	SW846 8260D	50	11/27/2024 20:40	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	113	46.5	SW846 8260D	50	11/27/2024 20:40	BST	A
1,2,4-Trimethylbenzene	ND	ND	ug/kg	56.7	14.2	SW846 8260D	50	11/27/2024 20:40	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	397	85.0	SW846 8260D	50	11/27/2024 20:40	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	56.7	15.9	SW846 8260D	50	11/27/2024 20:40	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	56.7	21.5	SW846 8260D	50	11/27/2024 20:40	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	56.7	18.1	SW846 8260D	50	11/27/2024 20:40	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	113	25.5	SW846 8260D	50	11/27/2024 20:40	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	56.7	13.6	SW846 8260D	50	11/27/2024 20:40	BST	A
1,3,5-Trimethylbenzene	ND	ND	ug/kg	56.7	11.3	SW846 8260D	50	11/27/2024 20:40	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	56.7	14.2	SW846 8260D	50	11/27/2024 20:40	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	56.7	15.3	SW846 8260D	50	11/27/2024 20:40	BST	A
2-Butanone	ND	ND,2	ug/kg	567	102	SW846 8260D	50	11/27/2024 20:40	BST	A
2-Hexanone	ND	ND	ug/kg	283	73.7	SW846 8260D	50	11/27/2024 20:40	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,4	ug/kg	283	85.0	SW846 8260D	50	11/27/2024 20:40	BST	A
Acetone	ND	ND	ug/kg	567	176	SW846 8260D	50	11/27/2024 20:40	BST	A
Benzene	28.1J	J	ug/kg	56.7	13.0	SW846 8260D	50	11/27/2024 20:40	BST	A
Bromochloromethane	ND	ND	ug/kg	56.7	18.1	SW846 8260D	50	11/27/2024 20:40	BST	A
Bromodichloromethane	ND	ND	ug/kg	56.7	15.3	SW846 8260D	50	11/27/2024 20:40	BST	A
Bromoform	ND	ND,1	ug/kg	56.7	22.7	SW846 8260D	50	11/27/2024 20:40	BST	A
Bromomethane	29.5J	J	ug/kg	56.7	22.1	SW846 8260D	50	11/27/2024 20:40	BST	A
Carbon Disulfide	ND	ND	ug/kg	56.7	13.0	SW846 8260D	50	11/27/2024 20:40	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	56.7	17.6	SW846 8260D	50	11/27/2024 20:40	BST	A
Chlorobenzene	ND	ND	ug/kg	56.7	10.8	SW846 8260D	50	11/27/2024 20:40	BST	A
Chlorodibromomethane	ND	ND	ug/kg	56.7	25.5	SW846 8260D	50	11/27/2024 20:40	BST	A
Chloroethane	ND	ND	ug/kg	56.7	18.7	SW846 8260D	50	11/27/2024 20:40	BST	A

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	56.7	11.9	SW846 8260D	50	11/27/2024 20:40	BST	A
Chloromethane	ND	ND	ug/kg	56.7	17.6	SW846 8260D	50	11/27/2024 20:40	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	56.7	18.1	SW846 8260D	50	11/27/2024 20:40	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	56.7	17.6	SW846 8260D	50	11/27/2024 20:40	BST	A
Cyclohexane	ND	ND	ug/kg	56.7	16.4	SW846 8260D	50	11/27/2024 20:40	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	56.7	18.7	SW846 8260D	50	11/27/2024 20:40	BST	A
Ethylbenzene	ND	ND	ug/kg	56.7	19.3	SW846 8260D	50	11/27/2024 20:40	BST	A
Freon 113	ND	ND	ug/kg	56.7	14.7	SW846 8260D	50	11/27/2024 20:40	BST	A
Isopropylbenzene	ND	ND	ug/kg	56.7	12.5	SW846 8260D	50	11/27/2024 20:40	BST	A
Methyl acetate	73.7J	J,3	ug/kg	113	18.1	SW846 8260D	50	11/27/2024 20:40	BST	A
Methyl cyclohexane	69.0		ug/kg	56.7	17.0	SW846 8260D	50	11/27/2024 20:40	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	56.7	18.7	SW846 8260D	50	11/27/2024 20:40	BST	A
Methylene Chloride	ND	ND	ug/kg	56.7	25.5	SW846 8260D	50	11/27/2024 20:40	BST	A
mp-Xylene	45.9J	J	ug/kg	113	29.5	SW846 8260D	50	11/27/2024 20:40	BST	A
o-Xylene	20.6J	J	ug/kg	56.7	18.7	SW846 8260D	50	11/27/2024 20:40	BST	A
Styrene	ND	ND	ug/kg	56.7	13.6	SW846 8260D	50	11/27/2024 20:40	BST	A
Tetrachloroethene	ND	ND	ug/kg	56.7	19.8	SW846 8260D	50	11/27/2024 20:40	BST	A
Toluene	74.9		ug/kg	56.7	13.0	SW846 8260D	50	11/27/2024 20:40	BST	A
Total Xylenes	66.5J	J	ug/kg	170	37.4	SW846 8260D	50	11/27/2024 20:40	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	56.7	14.7	SW846 8260D	50	11/27/2024 20:40	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	56.7	16.4	SW846 8260D	50	11/27/2024 20:40	BST	A
Trichloroethene	ND	ND	ug/kg	56.7	18.7	SW846 8260D	50	11/27/2024 20:40	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	56.7	13.6	SW846 8260D	50	11/27/2024 20:40	BST	A
Vinyl Chloride	ND	ND	ug/kg	56.7	17.0	SW846 8260D	50	11/27/2024 20:40	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	93.6%	71 – 146	11/27/2024 20:40	
4-Bromofluorobenzene	460-00-4	102%	46 – 138	11/27/2024 20:40	
Dibromofluoromethane	1868-53-7	89.3%	42 – 143	11/27/2024 20:40	
Toluene-d8	2037-26-5	95.3%	54 – 141	11/27/2024 20:40	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	15.9		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A
Total Solids	84.1		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A

Results

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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	11900		mg/kg	58.5	19.5	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Antimony, Total	ND	ND	mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Arsenic, Total	30.2		mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Barium, Total	119		mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Beryllium, Total	ND	ND	mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Cadmium, Total	ND	ND	mg/kg	2.9	0.98	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Calcium, Total	69400		mg/kg	58.5	19.5	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Chromium, Total	19.2		mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Cobalt, Total	18.8		mg/kg	5.8	1.9	SW846 6010C	5	12/05/2024 09:52	MSY	F1
Copper, Total	37.9		mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Iron, Total	74400		mg/kg	58.5	19.5	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Lead, Total	48.0		mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Magnesium, Total	13300		mg/kg	58.5	19.5	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Manganese, Total	1950		mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Mercury, Total	0.056		mg/kg	0.054	0.017	SW846 7471B	1	11/26/2024 11:08	JMS	F
Nickel, Total	22.0		mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Potassium, Total	1170		mg/kg	292	97.7	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Selenium, Total	ND	ND	mg/kg	29.2	9.8	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Silver, Total	ND	ND	mg/kg	2.9	0.98	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Sodium, Total	328		mg/kg	292	97.7	SW846 6010C	5	12/03/2024 11:35	MSY	F1
Thallium, Total	6.1J	J	mg/kg	17.5	5.8	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Vanadium, Total	18.3		mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 14:04	MSY	F1
Zinc, Total	220		mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 14:04	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
1,4-Dioxane	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	905	154	SW846 8270E	4	11/20/2024 14:59	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	905	154	SW846 8270E	4	11/20/2024 14:59	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	905	154	SW846 8270E	4	11/20/2024 14:59	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	905	154	SW846 8270E	4	11/20/2024 14:59	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	905	154	SW846 8270E	4	11/20/2024 14:59	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	1810	896	SW846 8270E	4	11/20/2024 14:59	S7M	F
2,4-Dinitrotoluene	ND	ND,8	ug/kg	453	90.5	SW846 8270E	4	11/20/2024 14:59	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	453	154	SW846 8270E	4	11/20/2024 14:59	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
2-Chlorophenol	ND	ND	ug/kg	905	154	SW846 8270E	4	11/20/2024 14:59	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,9	ug/kg	905	226	SW846 8270E	4	11/20/2024 14:59	S7M	F
2-Methylnaphthalene	225J	J	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
2-Nitroaniline	ND	ND	ug/kg	905	104	SW846 8270E	4	11/20/2024 14:59	S7M	F
2-Nitrophenol	ND	ND,10	ug/kg	905	154	SW846 8270E	4	11/20/2024 14:59	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	905	140	SW846 8270E	4	11/20/2024 14:59	S7M	F
3-Nitroaniline	ND	ND	ug/kg	905	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	905	154	SW846 8270E	4	11/20/2024 14:59	S7M	F

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	905	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
4-Nitroaniline	ND	ND	ug/kg	905	131	SW846 8270E	4	11/20/2024 14:59	S7M	F
4-Nitrophenol	ND	ND	ug/kg	905	154	SW846 8270E	4	11/20/2024 14:59	S7M	F
Acenaphthene	ND	ND	ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Acenaphthylene	103J	J	ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Acetophenone	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Anthracene	152J	J	ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Atrazine	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Benzaldehyde	ND	ND	ug/kg	905	90.5	SW846 8270E	4	11/20/2024 14:59	S7M	F
Benzo(a)anthracene	420		ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Benzo(a)pyrene	376		ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Benzo(b)fluoranthene	370		ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Benzo(g,h,i)perylene	286		ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Benzo(k)fluoranthene	372		ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Biphenyl	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	453	99.6	SW846 8270E	4	11/20/2024 14:59	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Caprolactam	ND	ND	ug/kg	905	176	SW846 8270E	4	11/20/2024 14:59	S7M	F
Carbazole	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Chrysene	504		ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Dibenzo(a,h)anthracene	101J	J	ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Dibenzofuran	122J	J	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Diethylphthalate	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Dimethylphthalate	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	453	158	SW846 8270E	4	11/20/2024 14:59	S7M	F
Di-n-Octylphthalate	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Fluoranthene	716		ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Fluorene	131J	J	ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	905	136	SW846 8270E	4	11/20/2024 14:59	S7M	F
Hexachloroethane	ND	ND	ug/kg	453	104	SW846 8270E	4	11/20/2024 14:59	S7M	F
Indeno(1,2,3-cd)pyrene	279		ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Isophorone	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
mp-Cresol	ND	ND	ug/kg	905	154	SW846 8270E	4	11/20/2024 14:59	S7M	F
Naphthalene	316		ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Nitrobenzene	ND	ND	ug/kg	453	154	SW846 8270E	4	11/20/2024 14:59	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	453	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
o-Cresol	ND	ND	ug/kg	905	154	SW846 8270E	4	11/20/2024 14:59	S7M	F
Pentachlorophenol	ND	ND	ug/kg	905	222	SW846 8270E	4	11/20/2024 14:59	S7M	F
Phenanthrene	515		ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F
Phenol	ND	ND	ug/kg	905	154	SW846 8270E	4	11/20/2024 14:59	S7M	F

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	589		ug/kg	226	76.9	SW846 8270E	4	11/20/2024 14:59	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	87.7%	19 – 132	11/20/2024 14:59	
2-Fluorobiphenyl	321-60-8	82.7%	40 – 110	11/20/2024 14:59	
2-Fluorophenol	367-12-4	74.8%	26 – 116	11/20/2024 14:59	
Nitrobenzene-d5	4165-60-0	84.5%	38 – 112	11/20/2024 14:59	
Phenol-d5	4165-62-2	80.1%	35 – 111	11/20/2024 14:59	
Terphenyl-d14	98904-43-9	107%	45 – 126	11/20/2024 14:59	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	56.7	12.5	SW846 8260D	50	11/27/2024 21:01	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	56.7	19.3	SW846 8260D	50	11/27/2024 21:01	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	56.7	18.7	SW846 8260D	50	11/27/2024 21:01	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	56.7	15.9	SW846 8260D	50	11/27/2024 21:01	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	56.7	16.4	SW846 8260D	50	11/27/2024 21:01	BST	A
1,2,3-Trichlorobenzene	ND	ND,5	ug/kg	113	52.7	SW846 8260D	50	11/27/2024 21:01	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	113	34.0	SW846 8260D	50	11/27/2024 21:01	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	113	46.5	SW846 8260D	50	11/27/2024 21:01	BST	A
1,2,4-Trimethylbenzene	ND	ND	ug/kg	56.7	14.2	SW846 8260D	50	11/27/2024 21:01	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	397	85.0	SW846 8260D	50	11/27/2024 21:01	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	56.7	15.9	SW846 8260D	50	11/27/2024 21:01	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	56.7	21.5	SW846 8260D	50	11/27/2024 21:01	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	56.7	18.1	SW846 8260D	50	11/27/2024 21:01	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	113	25.5	SW846 8260D	50	11/27/2024 21:01	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	56.7	13.6	SW846 8260D	50	11/27/2024 21:01	BST	A
1,3,5-Trimethylbenzene	ND	ND	ug/kg	56.7	11.3	SW846 8260D	50	11/27/2024 21:01	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	56.7	14.2	SW846 8260D	50	11/27/2024 21:01	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	56.7	15.3	SW846 8260D	50	11/27/2024 21:01	BST	A
2-Butanone	ND	ND,2	ug/kg	567	102	SW846 8260D	50	11/27/2024 21:01	BST	A
2-Hexanone	ND	ND	ug/kg	283	73.7	SW846 8260D	50	11/27/2024 21:01	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,4	ug/kg	283	85.0	SW846 8260D	50	11/27/2024 21:01	BST	A
Acetone	ND	ND	ug/kg	567	176	SW846 8260D	50	11/27/2024 21:01	BST	A
Benzene	ND	ND	ug/kg	56.7	13.0	SW846 8260D	50	11/27/2024 21:01	BST	A
Bromochloromethane	ND	ND	ug/kg	56.7	18.1	SW846 8260D	50	11/27/2024 21:01	BST	A
Bromodichloromethane	ND	ND	ug/kg	56.7	15.3	SW846 8260D	50	11/27/2024 21:01	BST	A
Bromoform	ND	ND,1	ug/kg	56.7	22.7	SW846 8260D	50	11/27/2024 21:01	BST	A
Bromomethane	37.6J	J	ug/kg	56.7	22.1	SW846 8260D	50	11/27/2024 21:01	BST	A
Carbon Disulfide	ND	ND	ug/kg	56.7	13.0	SW846 8260D	50	11/27/2024 21:01	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	56.7	17.6	SW846 8260D	50	11/27/2024 21:01	BST	A
Chlorobenzene	ND	ND	ug/kg	56.7	10.8	SW846 8260D	50	11/27/2024 21:01	BST	A
Chlorodibromomethane	ND	ND	ug/kg	56.7	25.5	SW846 8260D	50	11/27/2024 21:01	BST	A
Chloroethane	ND	ND	ug/kg	56.7	18.7	SW846 8260D	50	11/27/2024 21:01	BST	A

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	56.7	11.9	SW846 8260D	50	11/27/2024 21:01	BST	A
Chloromethane	ND	ND	ug/kg	56.7	17.6	SW846 8260D	50	11/27/2024 21:01	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	56.7	18.1	SW846 8260D	50	11/27/2024 21:01	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	56.7	17.6	SW846 8260D	50	11/27/2024 21:01	BST	A
Cyclohexane	ND	ND	ug/kg	56.7	16.4	SW846 8260D	50	11/27/2024 21:01	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	56.7	18.7	SW846 8260D	50	11/27/2024 21:01	BST	A
Ethylbenzene	ND	ND	ug/kg	56.7	19.3	SW846 8260D	50	11/27/2024 21:01	BST	A
Freon 113	ND	ND	ug/kg	56.7	14.7	SW846 8260D	50	11/27/2024 21:01	BST	A
Isopropylbenzene	ND	ND	ug/kg	56.7	12.5	SW846 8260D	50	11/27/2024 21:01	BST	A
Methyl acetate	47.5J	J,3	ug/kg	113	18.1	SW846 8260D	50	11/27/2024 21:01	BST	A
Methyl cyclohexane	158		ug/kg	56.7	17.0	SW846 8260D	50	11/27/2024 21:01	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	56.7	18.7	SW846 8260D	50	11/27/2024 21:01	BST	A
Methylene Chloride	ND	ND	ug/kg	56.7	25.5	SW846 8260D	50	11/27/2024 21:01	BST	A
mp-Xylene	ND	ND	ug/kg	113	29.5	SW846 8260D	50	11/27/2024 21:01	BST	A
o-Xylene	ND	ND	ug/kg	56.7	18.7	SW846 8260D	50	11/27/2024 21:01	BST	A
Styrene	ND	ND	ug/kg	56.7	13.6	SW846 8260D	50	11/27/2024 21:01	BST	A
Tetrachloroethene	ND	ND	ug/kg	56.7	19.8	SW846 8260D	50	11/27/2024 21:01	BST	A
Toluene	25.8J	J	ug/kg	56.7	13.0	SW846 8260D	50	11/27/2024 21:01	BST	A
Total Xylenes	ND	ND	ug/kg	170	37.4	SW846 8260D	50	11/27/2024 21:01	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	56.7	14.7	SW846 8260D	50	11/27/2024 21:01	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	56.7	16.4	SW846 8260D	50	11/27/2024 21:01	BST	A
Trichloroethene	ND	ND	ug/kg	56.7	18.7	SW846 8260D	50	11/27/2024 21:01	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	56.7	13.6	SW846 8260D	50	11/27/2024 21:01	BST	A
Vinyl Chloride	ND	ND	ug/kg	56.7	17.0	SW846 8260D	50	11/27/2024 21:01	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	92.8%	71 – 146	11/27/2024 21:01	
4-Bromofluorobenzene	460-00-4	104%	46 – 138	11/27/2024 21:01	
Dibromofluoromethane	1868-53-7	86.3%	42 – 143	11/27/2024 21:01	
Toluene-d8	2037-26-5	97.1%	54 – 141	11/27/2024 21:01	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	15.0		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A
Total Solids	85.0		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A

Results

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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	37200		mg/kg	52.5	17.5	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Antimony, Total	ND	ND	mg/kg	10.5	3.5	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Arsenic, Total	7.7J	J	mg/kg	10.5	3.5	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Barium, Total	305		mg/kg	5.2	1.7	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Beryllium, Total	7.1		mg/kg	5.2	1.7	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Cadmium, Total	ND	ND	mg/kg	2.6	0.88	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Calcium, Total	154000		mg/kg	52.5	17.5	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Chromium, Total	10.7		mg/kg	5.2	1.7	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Cobalt, Total	3.4J	J	mg/kg	5.2	1.7	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Copper, Total	28.8		mg/kg	10.5	3.5	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Iron, Total	26700		mg/kg	52.5	17.5	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Lead, Total	114		mg/kg	10.5	3.5	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Magnesium, Total	17700		mg/kg	52.5	17.5	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Manganese, Total	3870		mg/kg	5.2	1.7	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Mercury, Total	0.63	20,21,22	mg/kg	0.059	0.019	SW846 7471B	1	11/26/2024 11:18	JMS	F
Nickel, Total	8.1J	J	mg/kg	10.5	3.5	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Potassium, Total	9120		mg/kg	262	87.7	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Selenium, Total	ND	ND	mg/kg	26.2	8.8	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Silver, Total	ND	ND	mg/kg	2.6	0.88	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Sodium, Total	2220		mg/kg	262	87.7	SW846 6010C	5	12/03/2024 11:49	MSY	F1
Thallium, Total	ND	ND	mg/kg	15.7	5.2	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Vanadium, Total	17.1		mg/kg	5.2	1.7	SW846 6010C	5	11/25/2024 14:11	MSY	F1
Zinc, Total	92.7		mg/kg	10.5	3.5	SW846 6010C	5	11/25/2024 14:11	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
1,4-Dioxane	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	884	150	SW846 8270E	4	11/20/2024 15:23	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	884	150	SW846 8270E	4	11/20/2024 15:23	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	884	150	SW846 8270E	4	11/20/2024 15:23	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	884	150	SW846 8270E	4	11/20/2024 15:23	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	884	150	SW846 8270E	4	11/20/2024 15:23	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	1770	875	SW846 8270E	4	11/20/2024 15:23	S7M	F
2,4-Dinitrotoluene	ND	ND,8	ug/kg	442	88.4	SW846 8270E	4	11/20/2024 15:23	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	442	150	SW846 8270E	4	11/20/2024 15:23	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
2-Chlorophenol	ND	ND	ug/kg	884	150	SW846 8270E	4	11/20/2024 15:23	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,9	ug/kg	884	221	SW846 8270E	4	11/20/2024 15:23	S7M	F
2-Methylnaphthalene	202J	J	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
2-Nitroaniline	ND	ND	ug/kg	884	102	SW846 8270E	4	11/20/2024 15:23	S7M	F
2-Nitrophenol	ND	ND,10	ug/kg	884	150	SW846 8270E	4	11/20/2024 15:23	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	884	137	SW846 8270E	4	11/20/2024 15:23	S7M	F
3-Nitroaniline	ND	ND	ug/kg	884	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	884	150	SW846 8270E	4	11/20/2024 15:23	S7M	F

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	884	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
4-Nitroaniline	ND	ND	ug/kg	884	128	SW846 8270E	4	11/20/2024 15:23	S7M	F
4-Nitrophenol	ND	ND	ug/kg	884	150	SW846 8270E	4	11/20/2024 15:23	S7M	F
Acenaphthene	ND	ND	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Acenaphthylene	ND	ND	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Acetophenone	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Anthracene	ND	ND	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Atrazine	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Benzaldehyde	ND	ND	ug/kg	884	88.4	SW846 8270E	4	11/20/2024 15:23	S7M	F
Benzo(a)anthracene	108J	J	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Benzo(a)pyrene	ND	ND	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Benzo(b)fluoranthene	ND	ND	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Benzo(g,h,i)perylene	85.2J	J	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Benzo(k)fluoranthene	ND	ND	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Biphenyl	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	442	97.2	SW846 8270E	4	11/20/2024 15:23	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Caprolactam	ND	ND	ug/kg	884	172	SW846 8270E	4	11/20/2024 15:23	S7M	F
Carbazole	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Chrysene	113J	J	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Dibenzo(a,h)anthracene	ND	ND	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Dibenzofuran	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Diethylphthalate	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Dimethylphthalate	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	442	155	SW846 8270E	4	11/20/2024 15:23	S7M	F
Di-n-Octylphthalate	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Fluoranthene	112J	J	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Fluorene	ND	ND	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	884	133	SW846 8270E	4	11/20/2024 15:23	S7M	F
Hexachloroethane	ND	ND	ug/kg	442	102	SW846 8270E	4	11/20/2024 15:23	S7M	F
Indeno(1,2,3-cd)pyrene	ND	ND	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Isophorone	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
mp-Cresol	ND	ND	ug/kg	884	150	SW846 8270E	4	11/20/2024 15:23	S7M	F
Naphthalene	116J	J	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Nitrobenzene	ND	ND	ug/kg	442	150	SW846 8270E	4	11/20/2024 15:23	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	442	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
o-Cresol	ND	ND	ug/kg	884	150	SW846 8270E	4	11/20/2024 15:23	S7M	F
Pentachlorophenol	ND	ND	ug/kg	884	216	SW846 8270E	4	11/20/2024 15:23	S7M	F
Phenanthrene	198J	J	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F
Phenol	ND	ND	ug/kg	884	150	SW846 8270E	4	11/20/2024 15:23	S7M	F

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	102J	J	ug/kg	221	75.1	SW846 8270E	4	11/20/2024 15:23	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	73.3%	19 – 132	11/20/2024 15:23	
2-Fluorobiphenyl	321-60-8	71%	40 – 110	11/20/2024 15:23	
2-Fluorophenol	367-12-4	60.9%	26 – 116	11/20/2024 15:23	
Nitrobenzene-d5	4165-60-0	67.1%	38 – 112	11/20/2024 15:23	
Phenol-d5	4165-62-2	64.2%	35 – 111	11/20/2024 15:23	
Terphenyl-d14	98904-43-9	87.7%	45 – 126	11/20/2024 15:23	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	50.5	11.1	SW846 8260D	50	11/27/2024 21:21	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	50.5	17.2	SW846 8260D	50	11/27/2024 21:21	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	50.5	16.6	SW846 8260D	50	11/27/2024 21:21	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	50.5	14.1	SW846 8260D	50	11/27/2024 21:21	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	50.5	14.6	SW846 8260D	50	11/27/2024 21:21	BST	A
1,2,3-Trichlorobenzene	ND	ND,5	ug/kg	101	46.9	SW846 8260D	50	11/27/2024 21:21	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	101	30.3	SW846 8260D	50	11/27/2024 21:21	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	101	41.4	SW846 8260D	50	11/27/2024 21:21	BST	A
1,2,4-Trimethylbenzene	40.0J	J	ug/kg	50.5	12.6	SW846 8260D	50	11/27/2024 21:21	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	353	75.7	SW846 8260D	50	11/27/2024 21:21	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	50.5	14.1	SW846 8260D	50	11/27/2024 21:21	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	50.5	19.2	SW846 8260D	50	11/27/2024 21:21	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	50.5	16.1	SW846 8260D	50	11/27/2024 21:21	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	101	22.7	SW846 8260D	50	11/27/2024 21:21	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	50.5	12.1	SW846 8260D	50	11/27/2024 21:21	BST	A
1,3,5-Trimethylbenzene	28.0J	J	ug/kg	50.5	10.1	SW846 8260D	50	11/27/2024 21:21	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	50.5	12.6	SW846 8260D	50	11/27/2024 21:21	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	50.5	13.6	SW846 8260D	50	11/27/2024 21:21	BST	A
2-Butanone	ND	ND,2	ug/kg	505	90.8	SW846 8260D	50	11/27/2024 21:21	BST	A
2-Hexanone	ND	ND	ug/kg	252	65.6	SW846 8260D	50	11/27/2024 21:21	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,4	ug/kg	252	75.7	SW846 8260D	50	11/27/2024 21:21	BST	A
Acetone	ND	ND	ug/kg	505	156	SW846 8260D	50	11/27/2024 21:21	BST	A
Benzene	65.5		ug/kg	50.5	11.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Bromochloromethane	ND	ND	ug/kg	50.5	16.1	SW846 8260D	50	11/27/2024 21:21	BST	A
Bromodichloromethane	ND	ND	ug/kg	50.5	13.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Bromoform	ND	ND,1	ug/kg	50.5	20.2	SW846 8260D	50	11/27/2024 21:21	BST	A
Bromomethane	27.0J	J	ug/kg	50.5	19.7	SW846 8260D	50	11/27/2024 21:21	BST	A
Carbon Disulfide	ND	ND	ug/kg	50.5	11.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	50.5	15.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Chlorobenzene	ND	ND	ug/kg	50.5	9.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Chlorodibromomethane	ND	ND	ug/kg	50.5	22.7	SW846 8260D	50	11/27/2024 21:21	BST	A
Chloroethane	ND	ND	ug/kg	50.5	16.6	SW846 8260D	50	11/27/2024 21:21	BST	A

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	50.5	10.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Chloromethane	ND	ND	ug/kg	50.5	15.6	SW846 8260D	50	11/27/2024 21:21	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	50.5	16.1	SW846 8260D	50	11/27/2024 21:21	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	50.5	15.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Cyclohexane	68.4		ug/kg	50.5	14.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	50.5	16.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Ethylbenzene	ND	ND	ug/kg	50.5	17.2	SW846 8260D	50	11/27/2024 21:21	BST	A
Freon 113	ND	ND	ug/kg	50.5	13.1	SW846 8260D	50	11/27/2024 21:21	BST	A
Isopropylbenzene	ND	ND	ug/kg	50.5	11.1	SW846 8260D	50	11/27/2024 21:21	BST	A
Methyl acetate	83.1J	J,3	ug/kg	101	16.1	SW846 8260D	50	11/27/2024 21:21	BST	A
Methyl cyclohexane	294		ug/kg	50.5	15.1	SW846 8260D	50	11/27/2024 21:21	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	50.5	16.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Methylene Chloride	ND	ND	ug/kg	50.5	22.7	SW846 8260D	50	11/27/2024 21:21	BST	A
mp-Xylene	69.0J	J	ug/kg	101	26.2	SW846 8260D	50	11/27/2024 21:21	BST	A
o-Xylene	44.6J	J	ug/kg	50.5	16.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Styrene	ND	ND	ug/kg	50.5	12.1	SW846 8260D	50	11/27/2024 21:21	BST	A
Tetrachloroethene	ND	ND	ug/kg	50.5	17.7	SW846 8260D	50	11/27/2024 21:21	BST	A
Toluene	47.8J	J	ug/kg	50.5	11.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Total Xylenes	114J	J	ug/kg	151	33.3	SW846 8260D	50	11/27/2024 21:21	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	50.5	13.1	SW846 8260D	50	11/27/2024 21:21	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	50.5	14.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Trichloroethene	ND	ND	ug/kg	50.5	16.6	SW846 8260D	50	11/27/2024 21:21	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	50.5	12.1	SW846 8260D	50	11/27/2024 21:21	BST	A
Vinyl Chloride	ND	ND	ug/kg	50.5	15.1	SW846 8260D	50	11/27/2024 21:21	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	95.9%	71 – 146	11/27/2024 21:21	
4-Bromofluorobenzene	460-00-4	106%	46 – 138	11/27/2024 21:21	
Dibromofluoromethane	1868-53-7	90.9%	42 – 143	11/27/2024 21:21	
Toluene-d8	2037-26-5	98.3%	54 – 141	11/27/2024 21:21	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	16.2		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A
Total Solids	83.8		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A

Results

Client Sample ID	TB-3	Collected	11/14/2024 15:30
Lab Sample ID	3387962006	Lab Receipt	11/15/2024 09:13

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/26/2024 13:57	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/26/2024 13:57	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	11/26/2024 13:57	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	11/26/2024 13:57	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	11/26/2024 13:57	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	11/26/2024 13:57	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/26/2024 13:57	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/26/2024 13:57	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/26/2024 13:57	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	11/26/2024 13:57	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	11/26/2024 13:57	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/26/2024 13:57	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/26/2024 13:57	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	11/26/2024 13:57	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/26/2024 13:57	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/26/2024 13:57	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	11/26/2024 13:57	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/26/2024 13:57	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/26/2024 13:57	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/26/2024 13:57	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/26/2024 13:57	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/26/2024 13:57	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/26/2024 13:57	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/26/2024 13:57	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/26/2024 13:57	TMP	A
Methyl acetate	0.43J	J	ug/L	2.0	0.32	SW846 8260D	1	11/26/2024 13:57	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/26/2024 13:57	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/26/2024 13:57	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/26/2024 13:57	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	11/26/2024 13:57	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/26/2024 13:57	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/26/2024 13:57	TMP	A

Results

Client Sample ID	TB-3	Collected	11/14/2024 15:30
Lab Sample ID	3387962006	Lab Receipt	11/15/2024 09:13

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	11/26/2024 13:57	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/26/2024 13:57	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	11/26/2024 13:57	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/26/2024 13:57	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/26/2024 13:57	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/26/2024 13:57	TMP	A
Trichlorofluoromethane	ND	ND,23	ug/L	1.0	0.24	SW846 8260D	1	11/26/2024 13:57	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/26/2024 13:57	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	96.6%	62 – 133	11/26/2024 13:57	
4-Bromofluorobenzene	460-00-4	95.7%	79 – 114	11/26/2024 13:57	
Dibromofluoromethane	1868-53-7	95.3%	78 – 116	11/26/2024 13:57	
Toluene-d8	2037-26-5	100%	76 – 127	11/26/2024 13:57	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3387962001	SB-207-10	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387962002	SB-209-8.5	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387962003	SB-211-11.5	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387962004	SB-213-11	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387962005	SB-216-7	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3387962006	TB-3	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1336562	Prep Method	SW846 3051A
Date	11/21/2024 15:45	Analysis Method	SW846 6010C
Tech.	AXW		

Associated Samples

3387962001 3387962002 3387962003 3387962004 3387962005

Method Blank 3908613 (MB) Created on 11/21/2024 11:20 For QC Batch 1336562

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/kg	10.0	ND
Antimony, Total	7440-36-0	BLK	ND	mg/kg	2.0	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/kg	2.0	ND
Barium, Total	7440-39-3	BLK	ND	mg/kg	1.0	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/kg	1.0	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/kg	0.50	ND
Calcium, Total	7440-70-2	BLK	ND	mg/kg	10.0	ND
Chromium, Total	7440-47-3	BLK	ND	mg/kg	1.0	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/kg	1.0	ND
Copper, Total	7440-50-8	BLK	ND	mg/kg	2.0	ND
Iron, Total	7439-89-6	BLK	ND	mg/kg	10.0	ND
Lead, Total	7439-92-1	BLK	ND	mg/kg	2.0	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/kg	10.0	ND
Manganese, Total	7439-96-5	BLK	ND	mg/kg	1.0	ND
Nickel, Total	7440-02-0	BLK	ND	mg/kg	2.0	ND
Potassium, Total	7440-09-7	BLK	ND	mg/kg	50.0	ND
Selenium, Total	7782-49-2	BLK	ND	mg/kg	5.0	ND
Silver, Total	7440-22-4	BLK	ND	mg/kg	0.50	ND
Sodium, Total	7440-23-5	BLK	17.5J	mg/kg	50.0	J
Thallium, Total	7440-28-0	BLK	ND	mg/kg	3.0	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/kg	1.0	ND
Zinc, Total	7440-66-6	BLK	ND	mg/kg	2.0	ND

Lab Control Standard 3908614 (LCS1) Created on 11/21/2024 11:20 For QC Batch 1336562

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	101		100	101	80 - 120		
Antimony, Total	7440-36-0	LCS	36.4		40	90.9	80 - 120		
Arsenic, Total	7440-38-2	LCS	39.9		40	99.8	80 - 120		
Barium, Total	7440-39-3	LCS	105		100	105	80 - 120		
Beryllium, Total	7440-41-7	LCS	40.9		40	102	80 - 120		
Cadmium, Total	7440-43-9	LCS	21		20	105	80 - 120		
Calcium, Total	7440-70-2	LCS	505		500	101	80 - 120		
Chromium, Total	7440-47-3	LCS	21.7		20	109	80 - 120		
Cobalt, Total	7440-48-4	LCS	105		100	105	80 - 120		
Copper, Total	7440-50-8	LCS	104		100	104	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Iron, Total	7439-89-6	LCS	1040		1000	104	80 - 120		
Lead, Total	7439-92-1	LCS	103		100	103	80 - 120		
Magnesium, Total	7439-95-4	LCS	510		500	102	80 - 120		
Manganese, Total	7439-96-5	LCS	21.7		20	109	80 - 120		
Nickel, Total	7440-02-0	LCS	105		100	105	80 - 120		
Potassium, Total	7440-09-7	LCS	527		500	105	80 - 120		
Selenium, Total	7782-49-2	LCS	102		100	102	80 - 120		
Silver, Total	7440-22-4	LCS	20.5		20	103	80 - 120		
Sodium, Total	7440-23-5	LCS	544		500	109	80 - 120		
Thallium, Total	7440-28-0	LCS	104		100	104	80 - 120		
Vanadium, Total	7440-62-2	LCS	20.4		20	102	80 - 120		
Zinc, Total	7440-66-6	LCS	101		100	101	80 - 120		

Matrix Spike 3908616 (MS1) 3387962002 For QC Batch 1336562

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3908617 (MSD1) 3387962002 For QC Batch 1336562

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	MS	7880	8170	98.40	NC	75 - 125		
Aluminum, Total	7429-90-5	MSD	8500	8170	96.20	NC	75 - 125	RPD 7.53 (Max-20)	
Antimony, Total	7440-36-0	MS	35.7	0	39.40	90.6	75 - 125		
Antimony, Total	7440-36-0	MSD	32.5	0	38.50	84.4	75 - 125	RPD 9.47 (Max-20)	
Arsenic, Total	7440-38-2	MS	50.4	15.30	39.40	89.1	75 - 125		
Arsenic, Total	7440-38-2	MSD	52.5	15.30	38.50	96.7	75 - 125	RPD 4.09 (Max-20)	
Barium, Total	7440-39-3	MS	125	38	98.40	88.1	75 - 125		
Barium, Total	7440-39-3	MSD	135	38	96.20	101	75 - 125	RPD 8.04 (Max-20)	
Beryllium, Total	7440-41-7	MS	37.8	0.40	39.40	95.1	75 - 125		
Beryllium, Total	7440-41-7	MSD	41	0.40	38.50	106	75 - 125	RPD 8.03 (Max-20)	
Cadmium, Total	7440-43-9	MS	19.4	0	19.70	98.8	75 - 125		
Cadmium, Total	7440-43-9	MSD	20	0	19.20	104	75 - 125	RPD 3.09 (Max-20)	
Calcium, Total	7440-70-2	MS	6900	5550	492	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	7560	5550	481	NC	75 - 125	RPD 9.10 (Max-20)	
Chromium, Total	7440-47-3	MS	30.3	12.10	19.70	92.6	75 - 125		
Chromium, Total	7440-47-3	MSD	32.9	12.10	19.20	108	75 - 125	RPD 8.28 (Max-20)	
Cobalt, Total	7440-48-4	MS	99.6	5.80	98.40	95.3	75 - 125		
Cobalt, Total	7440-48-4	MSD	108	5.80	96.20	107	75 - 125	RPD 8.56 (Max-20)	
Copper, Total	7440-50-8	MS	114	20.90	98.40	94.7	75 - 125		
Copper, Total	7440-50-8	MSD	124	20.90	96.20	108	75 - 125	RPD 8.68 (Max-20)	
Iron, Total	7439-89-6	MS	20600	22200	984	NC	75 - 125		
Iron, Total	7439-89-6	MSD	22600	22200	962	NC	75 - 125	RPD 9.28 (Max-20)	
Lead, Total	7439-92-1	MS	110	12.30	98.40	99.5	75 - 125		
Lead, Total	7439-92-1	MSD	113	12.30	96.20	105	75 - 125	RPD 2.50 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Magnesium, Total	7439-95-4	MS	4720	3910	492	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	5650	3910	481	NC	75 - 125	RPD 17.80 (Max-20)	
Manganese, Total	7439-96-5	MS	241	198	19.70	NC	75 - 125		
Manganese, Total	7439-96-5	MSD	282	198	19.20	NC	75 - 125	RPD 15.70 (Max-20)	
Nickel, Total	7440-02-0	MS	112	18.80	98.40	94.9	75 - 125		
Nickel, Total	7440-02-0	MSD	122	18.80	96.20	108	75 - 125	RPD 8.62 (Max-20)	
Potassium, Total	7440-09-7	MS	1330	970	492	73.8*	75 - 125		
Potassium, Total	7440-09-7	MSD	1470	970	481	104	75 - 125	RPD 9.90 (Max-20)	
Selenium, Total	7782-49-2	MS	92.9	0	98.40	94.4	75 - 125		
Selenium, Total	7782-49-2	MSD	101	0	96.20	105	75 - 125	RPD 8.16 (Max-20)	
Silver, Total	7440-22-4	MS	20.4	0.15	19.70	103	75 - 125		
Silver, Total	7440-22-4	MSD	20.8	0.15	19.20	107	75 - 125	RPD 1.68 (Max-20)	
Sodium, Total	7440-23-5	MS	693	192	492	102	75 - 125		
Sodium, Total	7440-23-5	MSD	709	192	481	107	75 - 125	RPD 2.21 (Max-20)	
Thallium, Total	7440-28-0	MS	103	3.60	98.40	101	75 - 125		
Thallium, Total	7440-28-0	MSD	104	3.60	96.20	104	75 - 125	RPD 0.87 (Max-20)	
Vanadium, Total	7440-62-2	MS	32.7	15	19.70	90.1	75 - 125		
Vanadium, Total	7440-62-2	MSD	34.6	15	19.20	102	75 - 125	RPD 5.62 (Max-20)	
Zinc, Total	7440-66-6	MS	160	70.80	98.40	90.8	75 - 125		
Zinc, Total	7440-66-6	MSD	172	70.80	96.20	106	75 - 125	RPD 7.40 (Max-20)	

QC Batch

QC Batch	1339082	Prep Method	SW846 7471B
Date	11/25/2024 16:43	Analysis Method	SW846 7471B
Tech.	JMS		

Associated Samples

3387962001 3387962002 3387962003 3387962004 3387962005

Matrix Spike 3909815 (MS) 3389243001 (non-Project Sample) For QC Batch 1339082

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909816 (MSD) 3389243001 (non-Project Sample) For QC Batch 1339082

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	1.2	0.29	0.85	104	80 - 120		
Mercury, Total	7439-97-6	MSD	1.1	0.29	0.85	93.9	80 - 120	RPD 7.86 (Max-20)	

Method Blank 3909811 (MB) Created on 11/25/2024 09:32 For QC Batch 1339082

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/kg	0.050	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers

Lab Control Standard 3909812 (LCS) Created on 11/25/2024 09:32 For QC Batch 1339082

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.42		0.40	105	80 - 120		

Matrix Spike 3909813 (MS) 3387962005 For QC Batch 1339082

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909814 (MSD) 3387962005 For QC Batch 1339082

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	1.2	0.53	0.89	77.4*	80 - 120		
Mercury, Total	7439-97-6	MSD	0.17	0.53	0.90	-40.2*	80 - 120	RPD 152* (Max-20)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1333045	Prep Method	SW846 3546
Date	11/17/2024 19:30	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3387962001

Method Blank 3906158 (MB) Created on 11/15/2024 15:49 For QC Batch 1333045

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4230	5000	84.5	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	2170	2500	86.6	40 - 110	
2-Fluorophenol	367-12-4	BLK	4590	5000	91.8	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	2350	2500	94	38 - 112	
Phenol-d5	4165-62-2	BLK	5450	5000	109	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2720	2500	109	45 - 126	

Lab Control Standard 3906159 (LCS) Created on 11/15/2024 15:49 For QC Batch 1333045

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1760		2500	70.5	51 - 102		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS	2040		2500	81.6	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	4490		5000	89.9	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4480		5000	89.7	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4290		5000	85.8	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4370		5000	87.4	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	5260		5000	105	59 - 133		
2,4-Dinitrophenol	51-28-5	LCS	4340		5000	86.7	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2200		2500	88	62 - 115		
2,6-Dinitrotoluene	606-20-2	LCS	2280		2500	91.2	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	2000		2500	80	59 - 104		
2-Chlorophenol	95-57-8	LCS	4860		5000	97.1	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4850		5000	96.9	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	2120		2500	85	59 - 108		
2-Nitroaniline	88-74-4	LCS	2250		2500	90.1	60 - 115		
2-Nitrophenol	88-75-5	LCS	4340		5000	86.8	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3660		5000	73.3	25 - 104		
3-Nitroaniline	99-09-2	LCS	2520		2500	101	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	2140		2500	85.5	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	5490		5000	110	59 - 115		
4-Chloroaniline	106-47-8	LCS	2110		2500	84.4	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	2140		2500	85.6	59 - 107		
4-Nitroaniline	100-01-6	LCS	2450		2500	98.1	49 - 121		
4-Nitrophenol	100-02-7	LCS	6360		5000	127*	53 - 124		
Acenaphthene	83-32-9	LCS	2130		2500	85.2	61 - 105		
Acenaphthylene	208-96-8	LCS	1790		2500	71.6	63 - 106		
Acetophenone	98-86-2	LCS	2360		2500	94.6	33 - 98		
Anthracene	120-12-7	LCS	2210		2500	88.5	60 - 107		
Atrazine	1912-24-9	LCS	2270		2500	90.7	62 - 116		
Benzaldehyde	100-52-7	LCS	2410		2500	96.4	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2250		2500	89.9	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2250		2500	89.9	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2270		2500	90.7	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	2160		2500	86.2	57 - 119		
Benzo(k)fluoranthene	207-08-9	LCS	2320		2500	92.9	63 - 116		
Biphenyl	92-52-4	LCS	1870		2500	74.8	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	2470		2500	98.6	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	2680		2500	107	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	2460		2500	98.2	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	2280		2500	91.2	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	2390		2500	95.4	58 - 125		
Caprolactam	105-60-2	LCS	2570		2500	103	51 - 119		
Carbazole	86-74-8	LCS	2380		2500	95.2	66 - 117		
Chrysene	218-01-9	LCS	2260		2500	90.4	65 - 113		
Dibenzo(a,h)anthracene	53-70-3	LCS	2130		2500	85.1	59 - 116		
Dibenzofuran	132-64-9	LCS	2090		2500	83.7	62 - 106		
Diethylphthalate	84-66-2	LCS	2430		2500	97.2	59 - 112		
Dimethylphthalate	131-11-3	LCS	2150		2500	85.8	60 - 111		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Di-n-Butylphthalate	84-74-2	LCS	2360		2500	94.5	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	2390		2500	95.7	47 - 134		
Fluoranthene	206-44-0	LCS	2270		2500	91	61 - 114		
Fluorene	86-73-7	LCS	2190		2500	87.8	62 - 107		
Hexachlorobenzene	118-74-1	LCS	2050		2500	82	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2120		2500	85	56 - 127		
Hexachlorocyclopentadiene	77-47-4	LCS	1310		2500	52.3	20 - 124		
Hexachloroethane	67-72-1	LCS	2150		2500	85.9	57 - 101		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	2010		2500	80.5	53 - 118		
Isophorone	78-59-1	LCS	2520		2500	101	41 - 101		
mp-Cresol	108394/106445	LCS	5640		5000	113*	60 - 109		
Naphthalene	91-20-3	LCS	2030		2500	81.2	60 - 102		
Nitrobenzene	98-95-3	LCS	2330		2500	93.3	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	2830		2500	113	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2480		2500	99.3	73 - 129		
o-Cresol	95-48-7	LCS	5380		5000	108	61 - 108		
Pentachlorophenol	87-86-5	LCS	4800		5000	96	46 - 138		
Phenanthrene	85-01-8	LCS	2210		2500	88.3	61 - 106		
Phenol	108-95-2	LCS	5030		5000	101	57 - 110		
Pyrene	129-00-0	LCS	2210		2500	88.6	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	4640	5000	92.9	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	2080	2500	83.3	40 - 110	
2-Fluorophenol	367-12-4	LCS	4660	5000	93.3	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2250	2500	90.1	38 - 112	
Phenol-d5	4165-62-2	LCS	5370	5000	107	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2760	2500	110	45 - 126	

QC Batch

QC Batch	1334484	Prep Method	SW846 3546
Date	11/18/2024 21:15	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3387962002	3387962003	3387962004	3387962005

Matrix Spike 3906767 (MS) 3388066028 (non-Project Sample) For QC Batch 1334484

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3906768 (MSD) 3388066028 (non-Project Sample) For QC Batch 1334484

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Methylnaphthalene	91-57-6	MS	1820	46	2450	72.3	59 - 108		
2-Methylnaphthalene	91-57-6	MSD	1830	46	2400	74.2	59 - 108	RPD 0.61 (Max-21)	
Acenaphthene	83-32-9	MS	1740	0	2450	70.9	61 - 105		
Acenaphthene	83-32-9	MSD	1800	0	2400	74.7	61 - 105	RPD 3.27 (Max-17)	
Acenaphthylene	208-96-8	MS	1500	0	2450	61.3*	63 - 106		
Acenaphthylene	208-96-8	MSD	1520	0	2400	63.2	63 - 106	RPD 1.11 (Max-17)	
Anthracene	120-12-7	MS	1850	12.40	2450	74.8	60 - 107		
Anthracene	120-12-7	MSD	1900	12.40	2400	78.4	60 - 107	RPD 2.75 (Max-20)	
Benzo(a)anthracene	56-55-3	MS	1880	61.50	2450	74.1	61 - 113		
Benzo(a)anthracene	56-55-3	MSD	1930	61.50	2400	77.8	61 - 113	RPD 2.85 (Max-22)	
Benzo(a)pyrene	50-32-8	MS	1880	59.80	2450	74.2	68 - 121		
Benzo(a)pyrene	50-32-8	MSD	1960	59.80	2400	79.2	68 - 121	RPD 4.40 (Max-24)	
Benzo(b)fluoranthene	205-99-2	MS	1820	77.90	2450	71	64 - 115		
Benzo(b)fluoranthene	205-99-2	MSD	1970	77.90	2400	78.7	64 - 115	RPD 7.99 (Max-28)	
Benzo(g,h,i)perylene	191-24-2	MS	2050	59.20	2450	81.3	57 - 119		
Benzo(g,h,i)perylene	191-24-2	MSD	2130	59.20	2400	86.3	57 - 119	RPD 3.85 (Max-30)	
Benzo(k)fluoranthene	207-08-9	MS	1860	65.90	2450	73.4	63 - 116		
Benzo(k)fluoranthene	207-08-9	MSD	1940	65.90	2400	78	63 - 116	RPD 4.01 (Max-22)	
Chrysene	218-01-9	MS	1990	101	2450	77	65 - 113		
Chrysene	218-01-9	MSD	2030	101	2400	80.5	65 - 113	RPD 2.32 (Max-20)	
Dibenzo(a,h)anthracene	53-70-3	MS	2040	20.80	2450	82.3	59 - 116		
Dibenzo(a,h)anthracene	53-70-3	MSD	2140	20.80	2400	88	59 - 116	RPD 4.79 (Max-28)	
Fluoranthene	206-44-0	MS	1900	153	2450	71.2	61 - 114		
Fluoranthene	206-44-0	MSD	1970	153	2400	75.6	61 - 114	RPD 3.73 (Max-21)	
Fluorene	86-73-7	MS	1780	0	2450	72.8	62 - 107		
Fluorene	86-73-7	MSD	1820	0	2400	75.6	62 - 107	RPD 1.82 (Max-16)	
Indeno(1,2,3-cd)pyrene	193-39-5	MS	1910	63.90	2450	75.3	53 - 118		
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	2020	63.90	2400	81.3	53 - 118	RPD 5.52 (Max-30)	
Naphthalene	91-20-3	MS	1750	68.10	2450	68.5	60 - 102		
Naphthalene	91-20-3	MSD	1780	68.10	2400	71.3	60 - 102	RPD 2.07 (Max-21)	
Phenanthrene	85-01-8	MS	1920	138	2450	72.5	61 - 106		
Phenanthrene	85-01-8	MSD	1980	138	2400	76.6	61 - 106	RPD 3.28 (Max-20)	
Pyrene	129-00-0	MS	1890	103	2450	72.9	62 - 117		
Pyrene	129-00-0	MSD	1970	103	2400	77.6	62 - 117	RPD 4 (Max-20)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Fluorobiphenyl	321-60-8	MS	1860	2450	75.8	40 - 110	
2-Fluorobiphenyl	321-60-8	MSD	1860	2400	77.6	40 - 110	
Nitrobenzene-d5	4165-60-0	MS	1960	2450	79.9	38 - 112	
Nitrobenzene-d5	4165-60-0	MSD	1990	2400	82.6	38 - 112	
Terphenyl-d14	98904-43-9	MS	2290	2450	93.6	45 - 126	
Terphenyl-d14	98904-43-9	MSD	2390	2400	99.3	45 - 126	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

Method Blank 3906765 (MB) Created on 11/18/2024 11:28 For QC Batch 1334484

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4920	5000	98.3	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	2190	2500	87.4	40 - 110	
2-Fluorophenol	367-12-4	BLK	4190	5000	83.8	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	2390	2500	95.7	38 - 112	
Phenol-d5	4165-62-2	BLK	4190	5000	83.8	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2680	2500	107	45 - 126	

Lab Control Standard 3906766 (LCS) Created on 11/18/2024 11:28 For QC Batch 1334484

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1850		2500	74	51 - 102		
1,4-Dioxane	123-91-1	LCS	1450		2500	58	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	4250		5000	84.9	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4410		5000	88.3	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4380		5000	87.6	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4500		5000	90	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	5100		5000	102	59 - 133		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2,4-Dinitrophenol	51-28-5	LCS	4820		5000	96.4	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2310		2500	92.5	62 - 115		
2,6-Dinitrotoluene	606-20-2	LCS	2200		2500	87.9	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	1920		2500	76.6	59 - 104		
2-Chlorophenol	95-57-8	LCS	4300		5000	86	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4990		5000	99.8	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	1940		2500	77.7	59 - 108		
2-Nitroaniline	88-74-4	LCS	2230		2500	89.2	60 - 115		
2-Nitrophenol	88-75-5	LCS	4990		5000	99.7	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3390		5000	67.9	25 - 104		
3-Nitroaniline	99-09-2	LCS	2150		2500	85.8	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	1960		2500	78.5	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	4460		5000	89.2	59 - 115		
4-Chloroaniline	106-47-8	LCS	1880		2500	75.1	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	2050		2500	82.2	59 - 107		
4-Nitroaniline	100-01-6	LCS	2250		2500	89.8	49 - 121		
4-Nitrophenol	100-02-7	LCS	4240		5000	84.8	53 - 124		
Acenaphthene	83-32-9	LCS	1930		2500	77.1	61 - 105		
Acenaphthylene	208-96-8	LCS	1620		2500	65	63 - 106		
Acetophenone	98-86-2	LCS	1830		2500	73	33 - 98		
Anthracene	120-12-7	LCS	2020		2500	80.6	60 - 107		
Atrazine	1912-24-9	LCS	2210		2500	88.2	62 - 116		
Benzaldehyde	100-52-7	LCS	2080		2500	83.4	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2020		2500	80.9	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2040		2500	81.6	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2010		2500	80.5	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	2140		2500	85.5	57 - 119		
Benzo(k)fluoranthene	207-08-9	LCS	2020		2500	80.8	63 - 116		
Biphenyl	92-52-4	LCS	1750		2500	70.1	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	1990		2500	79.6	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	1840		2500	73.6	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	1830		2500	73.4	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	2320		2500	92.8	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	2210		2500	88.5	58 - 125		
Caprolactam	105-60-2	LCS	2030		2500	81	51 - 119		
Carbazole	86-74-8	LCS	1970		2500	79	66 - 117		
Chrysene	218-01-9	LCS	2050		2500	82.1	65 - 113		
Dibenzo(a,h)anthracene	53-70-3	LCS	2180		2500	87.2	59 - 116		
Dibenzofuran	132-64-9	LCS	1880		2500	75.2	62 - 106		
Diethylphthalate	84-66-2	LCS	2140		2500	85.4	59 - 112		
Dimethylphthalate	131-11-3	LCS	2010		2500	80.5	60 - 111		
Di-n-Butylphthalate	84-74-2	LCS	2230		2500	89.2	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	2490		2500	99.5	47 - 134		
Fluoranthene	206-44-0	LCS	2090		2500	83.4	61 - 114		
Fluorene	86-73-7	LCS	1940		2500	77.6	62 - 107		
Hexachlorobenzene	118-74-1	LCS	2050		2500	82.1	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2410		2500	96.2	56 - 127		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Hexachlorocyclopentadiene	77-47-4	LCS	1500		2500	60.1	20 - 124		
Hexachloroethane	67-72-1	LCS	1960		2500	78.3	57 - 101		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	2020		2500	80.7	53 - 118		
Isophorone	78-59-1	LCS	1920		2500	76.9	41 - 101		
mp-Cresol	108394/106445	LCS	4450		5000	89.1	60 - 109		
Naphthalene	91-20-3	LCS	1910		2500	76.4	60 - 102		
Nitrobenzene	98-95-3	LCS	2000		2500	80.2	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	1940		2500	77.6	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2340		2500	93.6	73 - 129		
o-Cresol	95-48-7	LCS	4260		5000	85.3	61 - 108		
Pentachlorophenol	87-86-5	LCS	3450		5000	69	46 - 138		
Phenanthrene	85-01-8	LCS	1940		2500	77.6	61 - 106		
Phenol	108-95-2	LCS	4270		5000	85.3	57 - 110		
Pyrene	129-00-0	LCS	1920		2500	76.8	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	4980	5000	99.6	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	2010	2500	80.5	40 - 110	
2-Fluorophenol	367-12-4	LCS	4080	5000	81.7	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2220	2500	88.8	38 - 112	
Phenol-d5	4165-62-2	LCS	4030	5000	80.5	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2430	2500	97.3	45 - 126	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1344288	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3387962006

Matrix Spike 3910663 (MS) 3388070047 (non-Project Sample) For QC Batch 1344288

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	23.7	0	20	119	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.1	0	20	116	74 - 135		
1,1,2-Trichloroethane	79-00-5	MS	21.7	0	20	108	82 - 126		
1,1-Dichloroethane	75-34-3	MS	23	0	20	115	78 - 124		
1,1-Dichloroethene	75-35-4	MS	24.5	0	20	122	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	MS	21.2	0	20	106	61 - 126		
1,2,3-Trichloropropane	96-18-4	MS	22.2	0	20	111	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	MS	23.6	0	20	118	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	MS	23.5	0	20	117	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	MS	21.4	0	20	107	59 - 133		
1,2-Dibromoethane	106-93-4	MS	20	0	20	100	80 - 124		
1,2-Dichlorobenzene	95-50-1	MS	22.1	0	20	111	82 - 118		
1,2-Dichloroethane	107-06-2	MS	22	0	20	110	70 - 133		
1,2-Dichloropropane	78-87-5	MS	23.1	0	20	116	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	MS	23.5	0	20	117	76 - 125		
1,3-Dichlorobenzene	541-73-1	MS	21.5	0	20	107	81 - 118		
1,4-Dichlorobenzene	106-46-7	MS	21.6	0	20	108	81 - 116		
2-Butanone	78-93-3	MS	107	0	100	107	50 - 152		
2-Hexanone	591-78-6	MS	106	0	100	106	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	105	0	100	105	71 - 146		
Acetone	67-64-1	MS	96.5	0	100	96.5	40 - 151		
Benzene	71-43-2	MS	22.7	0	20	114	80 - 124		
Bromochloromethane	74-97-5	MS	22.7	0	20	114	73 - 117		
Bromodichloromethane	75-27-4	MS	23.7	0	20	118	79 - 126		
Bromoform	75-25-2	MS	17.3	0	20	86.4	70 - 123		
Bromomethane	74-83-9	MS	18.3	0	20	91.6	45 - 148		
Carbon Disulfide	75-15-0	MS	23	0	20	115	57 - 131		
Carbon Tetrachloride	56-23-5	MS	22.7	0	20	113	62 - 132		
Chlorobenzene	108-90-7	MS	20.7	0	20	104	85 - 117		
Chlorodibromomethane	124-48-1	MS	20.8	0	20	104	77 - 122		
Chloroethane	75-00-3	MS	22.5	0	20	112	51 - 142		
Chloroform	67-66-3	MS	22.9	0	20	114	78 - 122		
Chloromethane	74-87-3	MS	18.9	0.45	20	92.2	38 - 156		
cis-1,2-Dichloroethene	156-59-2	MS	24.2	0.68	20	117	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	MS	21	0	20	105	81 - 121		
Cyclohexane	110-82-7	MS	24	0	20	120	66 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	MS	18.2	0	20	90.8	17 - 166		
Ethylbenzene	100-41-4	MS	21.1	0	20	106	80 - 124		
Freon 113	76-13-1	MS	23.7	0	20	119	50 - 130		
Isopropylbenzene	98-82-8	MS	25.2	0	20	126	73 - 129		
Methyl acetate	79-20-9	MS	19.2	0	20	96.1	70 - 130		
Methyl cyclohexane	108-87-2	MS	22.8	0	20	114	70 - 130		
Methyl t-Butyl Ether	1634-04-4	MS	22.9	0	20	115	69 - 115		
Methylene Chloride	75-09-2	MS	22.7	0	20	113	76 - 121		
mp-Xylene	108383/106423	MS	42.9	0	40	107	79 - 125		
o-Xylene	95-47-6	MS	21.2	0	20	106	79 - 124		
Styrene	100-42-5	MS	23.2	0	20	116	79 - 123		
Tetrachloroethene	127-18-4	MS	18.5	0	20	92.4	72 - 124		
Toluene	108-88-3	MS	21.7	0	20	109	80 - 125		
Total Xylenes	1330-20-7	MS	64.1	0	60	107	79 - 125		
trans-1,2-Dichloroethene	156-60-5	MS	23.5	0	20	117	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	MS	18.2	0	20	91	78 - 126		
Trichloroethene	79-01-6	MS	25.4	3.20	20	111	77 - 124		
Trichlorofluoromethane	75-69-4	MS	23.2	0	20	116	38 - 123		
Vinyl Chloride	75-01-4	MS	20.8	0	20	104	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.7	30	106	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	27.6	30	91.9	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.1	30	100	78 - 116	
Toluene-d8	2037-26-5	MS	28.9	30	96.3	76 - 127	

Duplicate 3910664 (DUP) 3388587002 (non-Project Sample) For QC Batch 1344288

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,1,1-Trichloroethane	71-55-6	DUP	0	0	RPD	0	(Max-)	ND
1,1,2,2-Tetrachloroethane	79-34-5	DUP	0	0	RPD	0	(Max-)	ND
1,1,2-Trichloroethane	79-00-5	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethane	75-34-3	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethene	75-35-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichlorobenzene	87-61-6	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichloropropane	96-18-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trichlorobenzene	120-82-1	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trimethylbenzene	95-63-6	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,2-Dibromo-3-chloropropane	96-12-8	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromoethane	106-93-4	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichlorobenzene	95-50-1	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloroethane	107-06-2	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloropropane	78-87-5	DUP	0	0	RPD	0	(Max-)	ND
1,3,5-Trimethylbenzene	108-67-8	DUP	0	0	RPD	0	(Max-)	ND
1,3-Dichlorobenzene	541-73-1	DUP	0	0	RPD	0	(Max-)	ND
1,4-Dichlorobenzene	106-46-7	DUP	0	0	RPD	0	(Max-)	ND
2-Butanone	78-93-3	DUP	0	0	RPD	0	(Max-)	ND
2-Hexanone	591-78-6	DUP	0	0	RPD	0	(Max-)	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	DUP	0	0	RPD	0	(Max-)	ND
Acetone	67-64-1	DUP	0	0	RPD	0	(Max-)	ND
Benzene	71-43-2	DUP	0.3776	0.3809	RPD	0.85	(Max-)	J
Bromochloromethane	74-97-5	DUP	0	0	RPD	0	(Max-)	ND
Bromodichloromethane	75-27-4	DUP	0	0	RPD	0	(Max-)	ND
Bromoform	75-25-2	DUP	0	0	RPD	0	(Max-)	ND
Bromomethane	74-83-9	DUP	0	0	RPD	0	(Max-)	ND
Carbon Disulfide	75-15-0	DUP	0	0	RPD	0	(Max-)	ND
Carbon Tetrachloride	56-23-5	DUP	0	0	RPD	0	(Max-)	ND
Chlorobenzene	108-90-7	DUP	1.2210	1.2351	RPD	1.15	(Max-)	
Chlorodibromomethane	124-48-1	DUP	0	0	RPD	0	(Max-)	ND
Chloroethane	75-00-3	DUP	0	0	RPD	0	(Max-)	ND
Chloroform	67-66-3	DUP	0	0	RPD	0	(Max-)	ND
Chloromethane	74-87-3	DUP	0.3507	0.4257	RPD	19.30	(Max-)	J
cis-1,2-Dichloroethene	156-59-2	DUP	22.1506	22.1116	RPD	0.18	(Max-)	
cis-1,3-Dichloropropene	10061-01-5	DUP	0	0	RPD	0	(Max-)	ND
Cyclohexane	110-82-7	DUP	0	0	RPD	0	(Max-)	ND
Dichlorodifluoromethane	75-71-8	DUP	0	0	RPD	0	(Max-)	ND
Ethylbenzene	100-41-4	DUP	0	0	RPD	0	(Max-)	ND
Freon 113	76-13-1	DUP	0	0	RPD	0	(Max-)	ND
Isopropylbenzene	98-82-8	DUP	0	0	RPD	0	(Max-)	ND
Methyl acetate	79-20-9	DUP	0.3431	0	RPD	200	(Max-)	J
Methyl cyclohexane	108-87-2	DUP	0	0	RPD	0	(Max-)	ND
Methyl t-Butyl Ether	1634-04-4	DUP	0	0	RPD	0	(Max-)	ND
Methylene Chloride	75-09-2	DUP	0	0	RPD	0	(Max-)	ND
mp-Xylene	108383/106423	DUP	0	0	RPD	0	(Max-)	ND
o-Xylene	95-47-6	DUP	0	0	RPD	0	(Max-)	ND
Styrene	100-42-5	DUP	0	0	RPD	0	(Max-)	ND
Tetrachloroethene	127-18-4	DUP	0	0	RPD	0	(Max-)	ND
Toluene	108-88-3	DUP	0	0	RPD	0	(Max-)	ND
Total Xylenes	1330-20-7	DUP	0	0	RPD	0	(Max-)	ND
trans-1,2-Dichloroethene	156-60-5	DUP	0	0	RPD	0	(Max-)	ND
trans-1,3-Dichloropropene	10061-02-6	DUP	0	0	RPD	0	(Max-)	ND
Trichloroethene	79-01-6	DUP	0.60	0.5708	RPD	4.99	(Max-)	J
Trichlorofluoromethane	75-69-4	DUP	0	0	RPD	0	(Max-)	ND
Vinyl Chloride	75-01-4	DUP	8.0289	8.2327	RPD	2.51	(Max-)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	DUP	29.3	30	97.7	62 - 133	
4-Bromofluorobenzene	460-00-4	DUP	28.7	30	95.5	79 - 114	
Dibromofluoromethane	1868-53-7	DUP	29.3	30	97.7	78 - 116	
Toluene-d8	2037-26-5	DUP	30.1	30	100	76 - 127	

Method Blank 3910643 (MB) Created on 11/26/2024 14:02 For QC Batch 1344288

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.1	30	97	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.8	30	99.3	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.3	30	97.7	78 - 116	
Toluene-d8	2037-26-5	BLK	30.4	30	101	76 - 127	

Lab Control Standard 3910644 (LCS) Created on 11/26/2024 14:02 For QC Batch 1344288

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	20.6		20	103	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	24.4		20	122	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	20.8		20	104	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.2		20	101	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.5		20	108	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.3		20	112	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	23.4		20	117	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.3		20	117	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	21.7		20	109	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	25		20	125	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	19.9		20	99.7	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.1		20	101	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.8		20	104	70 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dichloropropane	78-87-5	LCS	20.5		20	103	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.4		20	107	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.3		20	102	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.1		20	101	81 - 116		
2-Butanone	78-93-3	LCS	124		100	124	50 - 152		
2-Hexanone	591-78-6	LCS	137		100	137	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	123		100	123	71 - 146		
Acetone	67-64-1	LCS	147		100	147	40 - 151		
Benzene	71-43-2	LCS	19.9		20	99.7	80 - 124		
Bromochloromethane	74-97-5	LCS	19.6		20	98.2	73 - 117		
Bromodichloromethane	75-27-4	LCS	21		20	105	79 - 126		
Bromoform	75-25-2	LCS	18.7		20	93.5	70 - 123		
Bromomethane	74-83-9	LCS	15		20	75	45 - 148		
Carbon Disulfide	75-15-0	LCS	20.4		20	102	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.9		20	99.4	62 - 132		
Chlorobenzene	108-90-7	LCS	18.7		20	93.6	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.9		20	99.4	77 - 122		
Chloroethane	75-00-3	LCS	11.7		20	58.7	51 - 142		
Chloroform	67-66-3	LCS	20.7		20	103	78 - 122		
Chloromethane	74-87-3	LCS	17.4		20	87.2	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21.1		20	105	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.1		20	100	81 - 121		
Cyclohexane	110-82-7	LCS	20.2		20	101	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	16.7		20	83.5	17 - 166		
Ethylbenzene	100-41-4	LCS	18.6		20	93.1	80 - 124		
Freon 113	76-13-1	LCS	20.9		20	104	50 - 130		
Isopropylbenzene	98-82-8	LCS	22.9		20	114	73 - 129		
Methyl acetate	79-20-9	LCS	25.3		20	127	70 - 130		
Methyl cyclohexane	108-87-2	LCS	20.3		20	102	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	22.3		20	112	69 - 115		
Methylene Chloride	75-09-2	LCS	20		20	99.9	76 - 121		
mp-Xylene	108383/106423	LCS	38.3		40	95.8	79 - 125		
o-Xylene	95-47-6	LCS	18.5		20	92.4	79 - 124		
Styrene	100-42-5	LCS	21.3		20	106	79 - 123		
Tetrachloroethene	127-18-4	LCS	17.9		20	89.7	72 - 124		
Toluene	108-88-3	LCS	19.2		20	96	80 - 125		
Total Xylenes	1330-20-7	LCS	56.8		60	94.7	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.1		20	106	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	18.1		20	90.6	78 - 126		
Trichloroethene	79-01-6	LCS	19.3		20	96.6	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	24.9		20	124*	38 - 123		
Vinyl Chloride	75-01-4	LCS	19.8		20	99.2	27 - 138		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	32.1	30	107	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	28.1	30	93.7	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.6	30	98.7	78 - 116	
Toluene-d8	2037-26-5	LCS	28.5	30	94.9	76 - 127	

QC Batch

QC Batch	1346090	Prep Method	SW846 5035A
Date	11/18/2024 11:15	Analysis Method	SW846 8260D
Tech.	BST		

Associated Samples

3387962001 3387962002 3387962003 3387962004 3387962005

Matrix Spike 3911449 (MS) 3388338003 (non-Project Sample) For QC Batch 1346090

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911450 (MSD) 3388338003 (non-Project Sample) For QC Batch 1346090

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	872	0	912	95.5	69 - 136		
1,1,1-Trichloroethane	71-55-6	MSD	886	0	912	97.1	69 - 136	RPD 1.61 (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	828	0	912	90.8	69 - 125		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	846	0	912	92.7	69 - 125	RPD 2.08 (Max-40)	
1,1,2-Trichloroethane	79-00-5	MS	947	0	912	104	70 - 128		
1,1,2-Trichloroethane	79-00-5	MSD	961	0	912	105	70 - 128	RPD 1.47 (Max-40)	
1,1-Dichloroethane	75-34-3	MS	1010	0	912	111	68 - 137		
1,1-Dichloroethane	75-34-3	MSD	1020	0	912	111	68 - 137	RPD 0.75 (Max-40)	
1,1-Dichloroethene	75-35-4	MS	1030	0	912	112	62 - 135		
1,1-Dichloroethene	75-35-4	MSD	1010	0	912	111	62 - 135	RPD 1.56 (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	MS	1020	0	912	112	41 - 143		
1,2,3-Trichlorobenzene	87-61-6	MSD	1120	0	912	123	41 - 143	RPD 9.04 (Max-40)	
1,2,3-Trichloropropane	96-18-4	MS	827	0	912	90.7	63 - 133		
1,2,3-Trichloropropane	96-18-4	MSD	844	0	912	92.5	63 - 133	RPD 2.01 (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	MS	961	0	912	105	61 - 134		
1,2,4-Trichlorobenzene	120-82-1	MSD	1030	0	912	113	61 - 134	RPD 7.35 (Max-40)	
1,2,4-Trimethylbenzene	95-63-6	MS	1020	0	912	112	75 - 134		
1,2,4-Trimethylbenzene	95-63-6	MSD	1060	0	912	116	75 - 134	RPD 3.88 (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	815	0	912	89.3	37 - 131		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	825	0	912	90.5	37 - 131	RPD 1.30 (Max-40)	
1,2-Dibromoethane	106-93-4	MS	946	0	912	104	69 - 130		
1,2-Dibromoethane	106-93-4	MSD	953	0	912	104	69 - 130	RPD 0.76 (Max-40)	
1,2-Dichlorobenzene	95-50-1	MS	935	0	912	102	73 - 127		
1,2-Dichlorobenzene	95-50-1	MSD	989	0	912	108	73 - 127	RPD 5.63 (Max-40)	
1,2-Dichloroethane	107-06-2	MS	892	0	912	97.7	62 - 139		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dichloroethane	107-06-2	MSD	900	0	912	98.7	62 - 139	RPD 0.96 (Max-40)	
1,2-Dichloroethene, Total	540-59-0	MS	2040	0	1820	112	68 - 137		
1,2-Dichloroethene, Total	540-59-0	MSD	2040	0	1820	112	68 - 137	RPD 0.02 (Max-)	
1,2-Dichloropropane	78-87-5	MS	945	0	912	104	77 - 133		
1,2-Dichloropropane	78-87-5	MSD	973	0	912	107	77 - 133	RPD 2.93 (Max-40)	
1,3,5-Trimethylbenzene	108-67-8	MS	1050	0	912	115	74 - 137		
1,3,5-Trimethylbenzene	108-67-8	MSD	1090	0	912	120	74 - 137	RPD 4.07 (Max-40)	
1,3-Dichlorobenzene	541-73-1	MS	941	0	912	103	73 - 130		
1,3-Dichlorobenzene	541-73-1	MSD	976	0	912	107	73 - 130	RPD 3.58 (Max-40)	
1,4-Dichlorobenzene	106-46-7	MS	941	0	912	103	74 - 127		
1,4-Dichlorobenzene	106-46-7	MSD	982	0	912	108	74 - 127	RPD 4.30 (Max-40)	
2-Butanone	78-93-3	MS	5280	0	4560	116	51 - 151		
2-Butanone	78-93-3	MSD	5240	0	4560	115	51 - 151	RPD 0.77 (Max-40)	
2-Hexanone	591-78-6	MS	4120	0	4560	90.3	66 - 133		
2-Hexanone	591-78-6	MSD	4240	0	4560	93	66 - 133	RPD 2.98 (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	4650	0	4560	102	70 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	4690	0	4560	103	70 - 130	RPD 0.76 (Max-40)	
Acetone	67-64-1	MS	3900	0	4560	85.6	42 - 154		
Acetone	67-64-1	MSD	3950	0	4560	86.5	42 - 154	RPD 1.12 (Max-40)	
Benzene	71-43-2	MS	1070	0	912	118	77 - 134		
Benzene	71-43-2	MSD	1060	0	912	117	77 - 134	RPD 0.98 (Max-40)	
Bromochloromethane	74-97-5	MS	1000	0	912	110	70 - 124		
Bromochloromethane	74-97-5	MSD	1020	0	912	112	70 - 124	RPD 1.89 (Max-40)	
Bromodichloromethane	75-27-4	MS	859	0	912	94.2	73 - 133		
Bromodichloromethane	75-27-4	MSD	883	0	912	96.8	73 - 133	RPD 2.75 (Max-40)	
Bromoform	75-25-2	MS	777	0	912	85.2	62 - 118		
Bromoform	75-25-2	MSD	834	0	912	91.4	62 - 118	RPD 7.04 (Max-40)	
Bromomethane	74-83-9	MS	725	42.40	912	74.8	41 - 143		
Bromomethane	74-83-9	MSD	718	42.40	912	74.1	41 - 143	RPD 0.97 (Max-40)	
Carbon Disulfide	75-15-0	MS	752	17.50	912	80.4	48 - 145		
Carbon Disulfide	75-15-0	MSD	808	17.50	912	86.7	48 - 145	RPD 7.28 (Max-40)	
Carbon Tetrachloride	56-23-5	MS	681	0	912	74.6	64 - 139		
Carbon Tetrachloride	56-23-5	MSD	695	0	912	76.2	64 - 139	RPD 2.08 (Max-40)	
Chlorobenzene	108-90-7	MS	1020	0	912	111	76 - 130		
Chlorobenzene	108-90-7	MSD	1030	0	912	113	76 - 130	RPD 1.70 (Max-40)	
Chlorodibromomethane	124-48-1	MS	782	0	912	85.7	69 - 122		
Chlorodibromomethane	124-48-1	MSD	820	0	912	89.8	69 - 122	RPD 4.69 (Max-40)	
Chloroethane	75-00-3	MS	360	0	912	39.5	14 - 152		
Chloroethane	75-00-3	MSD	341	0	912	37.3	14 - 152	RPD 5.56 (Max-40)	
Chloroform	67-66-3	MS	1010	0	912	111	75 - 127		
Chloroform	67-66-3	MSD	1020	0	912	112	75 - 127	RPD 1.15 (Max-40)	
Chloromethane	74-87-3	MS	1030	9.10	912	112	31 - 167		
Chloromethane	74-87-3	MSD	1030	9.10	912	112	31 - 167	RPD 0.17 (Max-40)	
cis-1,2-Dichloroethene	156-59-2	MS	1010	0	912	111	68 - 137		
cis-1,2-Dichloroethene	156-59-2	MSD	998	0	912	109	68 - 137	RPD 1.46 (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	MS	761	0	912	83.4	70 - 129		
cis-1,3-Dichloropropene	10061-01-5	MSD	780	0	912	85.5	70 - 129	RPD 2.44 (Max-40)	
Cyclohexane	110-82-7	MS	1150	0	912	126	63 - 151		
Cyclohexane	110-82-7	MSD	1160	0	912	127	63 - 151	RPD 0.93 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	MS	940	0	912	103	10 - 180		
Dichlorodifluoromethane	75-71-8	MSD	921	0	912	101	10 - 180	RPD 1.98 (Max-40)	
Ethylbenzene	100-41-4	MS	1090	0	912	119	76 - 136		
Ethylbenzene	100-41-4	MSD	1100	0	912	121	76 - 136	RPD 1.38 (Max-40)	
Freon 113	76-13-1	MS	940	0	912	103	42 - 109		
Freon 113	76-13-1	MSD	957	0	912	105	42 - 109	RPD 1.70 (Max-40)	
Isopropylbenzene	98-82-8	MS	1150	0	912	126	72 - 137		
Isopropylbenzene	98-82-8	MSD	1200	0	912	132	72 - 137	RPD 4.59 (Max-40)	
Methyl acetate	79-20-9	MS	3070	2100	912	106	70 - 130		
Methyl acetate	79-20-9	MSD	2970	2100	912	94.8	70 - 130	RPD 3.31 (Max-40)	
Methyl cyclohexane	108-87-2	MS	1280	36.60	912	136*	70 - 130		
Methyl cyclohexane	108-87-2	MSD	1310	36.60	912	139*	70 - 130	RPD 2.32 (Max-40)	
Methyl t-Butyl Ether	1634-04-4	MS	853	0	912	93.5	65 - 120		
Methyl t-Butyl Ether	1634-04-4	MSD	848	0	912	92.9	65 - 120	RPD 0.63 (Max-40)	
Methylene Chloride	75-09-2	MS	984	10.20	912	107	73 - 129		
Methylene Chloride	75-09-2	MSD	1010	10.20	912	109	73 - 129	RPD 2.43 (Max-40)	
mp-Xylene	108383/106423	MS	2290	17.60	1820	125	75 - 137		
mp-Xylene	108383/106423	MSD	2280	17.60	1820	124	75 - 137	RPD 0.47 (Max-40)	
o-Xylene	95-47-6	MS	1130	0	912	124	74 - 135		
o-Xylene	95-47-6	MSD	1140	0	912	125	74 - 135	RPD 0.56 (Max-40)	
Styrene	100-42-5	MS	1110	0	912	122	72 - 134		
Styrene	100-42-5	MSD	1140	0	912	125	72 - 134	RPD 2.47 (Max-40)	
Tetrachloroethene	127-18-4	MS	1030	0	912	113	73 - 134		
Tetrachloroethene	127-18-4	MSD	1070	0	912	117	73 - 134	RPD 3.97 (Max-40)	
Toluene	108-88-3	MS	1020	12.50	912	111	73 - 134		
Toluene	108-88-3	MSD	1030	12.50	912	112	73 - 134	RPD 0.78 (Max-40)	
Total Xylenes	1330-20-7	MS	3420	0	2740	125	75 - 136		
Total Xylenes	1330-20-7	MSD	3420	0	2740	125	75 - 136	RPD 0.13 (Max-40)	
trans-1,2-Dichloroethene	156-60-5	MS	1020	0	912	112	69 - 130		
trans-1,2-Dichloroethene	156-60-5	MSD	1040	0	912	114	69 - 130	RPD 1.46 (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	MS	808	0	912	88.6	67 - 129		
trans-1,3-Dichloropropene	10061-02-6	MSD	844	0	912	92.5	67 - 129	RPD 4.39 (Max-40)	
Trichloroethene	79-01-6	MS	1000	0	912	110	77 - 134		
Trichloroethene	79-01-6	MSD	994	0	912	109	77 - 134	RPD 0.77 (Max-40)	
Trichlorofluoromethane	75-69-4	MS	350	0	912	38.4	27 - 121		
Trichlorofluoromethane	75-69-4	MSD	325	0	912	35.6	27 - 121	RPD 7.48 (Max-40)	
Vinyl Chloride	75-01-4	MS	1220	0	912	134	5 - 200		
Vinyl Chloride	75-01-4	MSD	1220	0	912	134	5 - 200	RPD 0.02 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	1320	1370	96.3	71 - 146	
1,2-Dichloroethane-d4	17060-07-0	MSD	1310	1370	95.4	71 - 146	
4-Bromofluorobenzene	460-00-4	MS	1420	1370	104	46 - 138	
4-Bromofluorobenzene	460-00-4	MSD	1390	1370	101	46 - 138	
Dibromofluoromethane	1868-53-7	MS	1320	1370	96.3	42 - 143	
Dibromofluoromethane	1868-53-7	MSD	1330	1370	97.3	42 - 143	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
Toluene-d8	2037-26-5	MS	1300	1370	94.9	54 - 141	
Toluene-d8	2037-26-5	MSD	1290	1370	94.4	54 - 141	

Method Blank 3911440 (MB) Created on 11/27/2024 21:27 For QC Batch 1346090

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	50.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	50.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	50.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	100	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	100	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	42.5J	ug/kg	100	J
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	50.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	350	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	50.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	100	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	50.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	11.8J	ug/kg	50.0	J
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	50.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	50.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	500	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	250	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	250	ND
Acetone	67-64-1	BLK	ND	ug/kg	500	ND
Benzene	71-43-2	BLK	ND	ug/kg	50.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	50.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	50.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	50.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	50.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	50.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	50.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	50.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	50.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	50.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	50.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	50.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	50.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	50.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	50.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	50.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Freon 113	76-13-1	BLK	ND	ug/kg	50.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	50.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	100	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	50.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	50.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	50.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/kg	100	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	50.0	ND
Styrene	100-42-5	BLK	ND	ug/kg	50.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	50.0	ND
Toluene	108-88-3	BLK	ND	ug/kg	50.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	150	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	50.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	50.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	50.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	50.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	1450	1500	96.4	71 - 146	
4-Bromofluorobenzene	460-00-4	BLK	1570	1500	105	46 - 138	
Dibromofluoromethane	1868-53-7	BLK	1480	1500	98.7	42 - 143	
Toluene-d8	2037-26-5	BLK	1420	1500	95	54 - 141	

Lab Control Standard 3911441 (LCS) Created on 11/27/2024 21:27 For QC Batch 1346090

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	889		1000	88.9	69 - 136		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	954		1000	95.4	69 - 125		
1,1,2-Trichloroethane	79-00-5	LCS	1020		1000	102	70 - 128		
1,1-Dichloroethane	75-34-3	LCS	1030		1000	103	68 - 137		
1,1-Dichloroethene	75-35-4	LCS	1070		1000	107	62 - 135		
1,2,3-Trichlorobenzene	87-61-6	LCS	1240		1000	124	41 - 143		
1,2,3-Trichloropropane	96-18-4	LCS	982		1000	98.2	63 - 133		
1,2,4-Trichlorobenzene	120-82-1	LCS	1160		1000	116	61 - 134		
1,2,4-Trimethylbenzene	95-63-6	LCS	1090		1000	109	75 - 134		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	1030		1000	103	37 - 131		
1,2-Dibromoethane	106-93-4	LCS	1040		1000	104	69 - 130		
1,2-Dichlorobenzene	95-50-1	LCS	1070		1000	107	73 - 127		
1,2-Dichloroethane	107-06-2	LCS	957		1000	95.7	62 - 139		
1,2-Dichloroethene, Total	540-59-0	LCS	2100		2000	105	68 - 137		
1,2-Dichloropropane	78-87-5	LCS	1010		1000	101	77 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,3,5-Trimethylbenzene	108-67-8	LCS	1120		1000	112	74 - 137		
1,3-Dichlorobenzene	541-73-1	LCS	1080		1000	108	73 - 130		
1,4-Dichlorobenzene	106-46-7	LCS	1070		1000	107	74 - 127		
2-Butanone	78-93-3	LCS	5210		5000	104	51 - 151		
2-Hexanone	591-78-6	LCS	4970		5000	99.3	66 - 133		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	5360		5000	107	70 - 130		
Acetone	67-64-1	LCS	5880		5000	118	42 - 154		
Benzene	71-43-2	LCS	1050		1000	105	77 - 134		
Bromochloromethane	74-97-5	LCS	1140		1000	114	70 - 124		
Bromodichloromethane	75-27-4	LCS	997		1000	99.7	73 - 133		
Bromoform	75-25-2	LCS	1050		1000	105	62 - 118		
Bromomethane	74-83-9	LCS	1020		1000	102	41 - 143		
Carbon Disulfide	75-15-0	LCS	953		1000	95.3	48 - 145		
Carbon Tetrachloride	56-23-5	LCS	808		1000	80.8	64 - 139		
Chlorobenzene	108-90-7	LCS	1070		1000	107	76 - 130		
Chlorodibromomethane	124-48-1	LCS	975		1000	97.5	69 - 122		
Chloroethane	75-00-3	LCS	924		1000	92.4	14 - 152		
Chloroform	67-66-3	LCS	1060		1000	106	75 - 127		
Chloromethane	74-87-3	LCS	1020		1000	102	31 - 167		
cis-1,2-Dichloroethene	156-59-2	LCS	1060		1000	106	68 - 137		
cis-1,3-Dichloropropene	10061-01-5	LCS	856		1000	85.6	70 - 129		
Cyclohexane	110-82-7	LCS	1120		1000	112	63 - 151		
Dichlorodifluoromethane	75-71-8	LCS	926		1000	92.6	10 - 180		
Ethylbenzene	100-41-4	LCS	1120		1000	112	76 - 136		
Freon 113	76-13-1	LCS	925		1000	92.5	42 - 109		
Isopropylbenzene	98-82-8	LCS	1220		1000	122	72 - 137		
Methyl acetate	79-20-9	LCS	1200		1000	120	70 - 130		
Methyl cyclohexane	108-87-2	LCS	1280		1000	128	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	932		1000	93.2	65 - 120		
Methylene Chloride	75-09-2	LCS	1040		1000	104	73 - 129		
mp-Xylene	108383/106423	LCS	2240		2000	112	75 - 137		
o-Xylene	95-47-6	LCS	1140		1000	114	74 - 135		
Styrene	100-42-5	LCS	1180		1000	118	72 - 134		
Tetrachloroethene	127-18-4	LCS	1100		1000	110	73 - 134		
Toluene	108-88-3	LCS	1000		1000	100	73 - 134		
Total Xylenes	1330-20-7	LCS	3380		3000	113	75 - 136		
trans-1,2-Dichloroethene	156-60-5	LCS	1040		1000	104	69 - 130		
trans-1,3-Dichloropropene	10061-02-6	LCS	920		1000	92	67 - 129		
Trichloroethene	79-01-6	LCS	990		1000	99	77 - 134		
Trichlorofluoromethane	75-69-4	LCS	1040		1000	104	27 - 121		
Vinyl Chloride	75-01-4	LCS	1270		1000	127	5 - 200		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	1350	1500	90.3	71 - 146	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
4-Bromofluorobenzene	460-00-4	LCS	1560	1500	104	46 - 138	
Dibromofluoromethane	1868-53-7	LCS	1520	1500	102	42 - 143	
Toluene-d8	2037-26-5	LCS	1430	1500	95	54 - 141	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1334383	Prep Method	N/A
Date	N/A	Analysis Method	S2540G-15
Tech.			

Associated Samples

3387962001	3387962002	3387962003	3387962004
3387962005			

Duplicate 3906457 (DUP) 3388148002 (non-Project Sample) For QC Batch 1334383

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	15.9702	13.8972	RPD 13.90* (Max-10)	
Total Solids	TSP	DUP	84.0297	86.1027	RPD 2.44 (Max-5)	

Duplicate 3906456 (DUP) 3387962002 For QC Batch 1334383

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	17.7250	18.7274	RPD 5.50 (Max-10)	
Total Solids	TSP	DUP	82.2749	81.2725	RPD 1.23 (Max-5)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3387962001	SB-207-10	SW846 3051A	1336562	11/21/2024 15:45	AXW	SW846 6010C	1339483
		SW846 3051A	1336562	11/21/2024 15:45	AXW	SW846 6010C	1340983
		SW846 7471B	1339082	11/25/2024 16:43	JMS	SW846 7471B	1344291
		SW846 3546	1333045	11/17/2024 19:30	J1H	SW846 8270E	1335411
		SW846 5035A	1346090	11/14/2024 08:15	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1334383
3387962002	SB-209-8.5	SW846 3051A	1336562	11/21/2024 15:45	AXW	SW846 6010C	1339483
		SW846 3051A	1336562	11/21/2024 15:45	AXW	SW846 6010C	1340983
		SW846 3051A	1336562	11/21/2024 15:45	AXW	SW846 6010C	1350112
		SW846 7471B	1339082	11/25/2024 16:43	JMS	SW846 7471B	1344291
		SW846 3546	1334484	11/18/2024 21:15	J1H	SW846 8270E	1336197
		SW846 5035A	1346090	11/14/2024 09:00	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1334383
3387962003	SB-211-11.5	SW846 3051A	1336562	11/21/2024 15:45	AXW	SW846 6010C	1339483
		SW846 3051A	1336562	11/21/2024 15:45	AXW	SW846 6010C	1340983
		SW846 7471B	1339082	11/25/2024 16:43	JMS	SW846 7471B	1344291
		SW846 3546	1334484	11/18/2024 21:15	J1H	SW846 8270E	1336197
		SW846 5035A	1346090	11/14/2024 09:55	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1334383
3387962004	SB-213-11	SW846 3051A	1336562	11/21/2024 15:45	AXW	SW846 6010C	1339483
		SW846 3051A	1336562	11/21/2024 15:45	AXW	SW846 6010C	1340983
		SW846 3051A	1336562	11/21/2024 15:45	AXW	SW846 6010C	1350112
		SW846 7471B	1339082	11/25/2024 16:43	JMS	SW846 7471B	1344291
		SW846 3546	1334484	11/18/2024 21:15	J1H	SW846 8270E	1336197
		SW846 5035A	1346090	11/14/2024 10:35	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1334383
3387962005	SB-216-7	SW846 3051A	1336562	11/21/2024 15:45	AXW	SW846 6010C	1339483
		SW846 3051A	1336562	11/21/2024 15:45	AXW	SW846 6010C	1340983
		SW846 7471B	1339082	11/25/2024 16:43	JMS	SW846 7471B	1344291
		SW846 3546	1334484	11/18/2024 21:15	J1H	SW846 8270E	1336197
		SW846 5035A	1346090	11/14/2024 15:30	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1334383
3387962006	TB-3	N/A	N/A	N/A		SW846 8260D	1344288

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

3387962

Logged By: CXW
PM: EXP

1 of 1 of

Client Name: Michael Baker Intl.
Address: 100 Airside Drive Moon Twp., PA
Contact: C. Kupfer
Phone#: 412-269-6300
Project Name/#: Erie Coke Works
Bill To:
Purchase Order #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

| | | |

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke Works
Workorder 3388148
Report ID 371821 on 12/4/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 16, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3388148001	SB-217-6	Solid	11/15/2024 07:50	11/16/2024 08:38	CBC	Collected By Client
3388148002	SB-217-3	Solid	11/15/2024 08:00	11/16/2024 08:38	CBC	Collected By Client
3388148003	SB-220-10	Solid	11/15/2024 08:45	11/16/2024 08:38	CBC	Collected By Client
3388148004	SB-220-10D	Solid	11/15/2024 09:00	11/16/2024 08:38	CBC	Collected By Client
3388148005	SB-218-7	Solid	11/15/2024 09:30	11/16/2024 08:38	CBC	Collected By Client
3388148006	SB-219-8.5	Solid	11/15/2024 10:10	11/16/2024 08:38	CBC	Collected By Client
3388148007	SB-221-9	Solid	11/15/2024 10:55	11/16/2024 08:38	CBC	Collected By Client
3388148008	TB-4	Ground Water	11/15/2024 00:00	11/16/2024 08:38	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID		
3388148002	SB-217-3	**S1**	The 8260 GCMS volatiles analysis was performed at a dilution due to the level of non-target compounds. Reporting limits were adjusted accordingly.

Result Notations

Notation Ref.	
1	4-Methyl-2-Pentanone(MIBK) was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The %difference was reported at 29.33%. Acceptable limits are +/-20%.
2	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2,4-Dinitrotoluene. The % Recovery was reported as 121 and the control limits were 80 to 120.
3	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2-Methyl-4,6-Dinitrophenol. The % Recovery was reported as 121 and the control limits were 80 to 120.
4	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2-Nitrophenol. The % Recovery was reported as 124 and the control limits were 80 to 120.
5	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
6	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Lead, Total. The % Recovery was reported as 61.4 and the control limits were 75 to 125.
7	The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.
8	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Potassium, Total. The % Recovery was reported as 160 and the control limits were 75 to 125.
9	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Potassium, Total. The % Recovery was reported as 130 and the control limits were 75 to 125.
10	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Zinc, Total. The % Recovery was reported as 74.8 and the control limits were 75 to 125.
11	The QC sample type DUP for method S2540G-15 was outside the control limits for the analyte Moisture. The RPD was reported as 13.9 and the upper control limit is 10.
12	The method blank associated with this sample was positive for Calcium, at 11.1 mg/kg. The Calcium analyte concentration in the sample was greater than ten times the concentration of the blank. According to the method, the sample was commented and reported. MSY 11/25/24
13	Bromoform was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift was reported at 21.41%. Acceptable limits are +/-20%.
14	2-Butanone was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % difference was reported at 21.85%. Acceptable limits are +/-20%.
15	Methyl acetate was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % difference was reported at 33.26%. Acceptable limits are +/-20%.
16	4-Methyl-2-Pentanone (MIBK) was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % difference was reported at 24.00%. Acceptable limits are +/-20%.
17	1,2,3-Trichlorobenzene was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift was reported at 20.87%. Acceptable limits are +/-20%.
18	Bromomethane was recovered below the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift was reported at -21.37%. Acceptable limits are +/-20%.

Detected Results Summary

Client Sample ID	SB-217-6	Collected	11/15/2024 07:50
Lab Sample ID	3388148001	Lab Receipt	11/16/2024 08:38

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	10900	mg/kg	13.3	4.4	SW846 6010C	#
Antimony, Total	5.9	mg/kg	2.7	0.89	SW846 6010C	#
Arsenic, Total	28.7	mg/kg	2.7	0.89	SW846 6010C	#
Barium, Total	186	mg/kg	1.3	0.44	SW846 6010C	#
Beryllium, Total	1.0J	mg/kg	1.3	0.44	SW846 6010C	#
Cadmium, Total	1.1	mg/kg	0.67	0.22	SW846 6010C	#
Calcium, Total	18900	mg/kg	13.3	4.4	SW846 6010C	#
Chromium, Total	37.7	mg/kg	1.3	0.44	SW846 6010C	#
Cobalt, Total	17.8	mg/kg	1.3	0.44	SW846 6010C	#
Copper, Total	85.7	mg/kg	2.7	0.89	SW846 6010C	#
Iron, Total	32200	mg/kg	13.3	4.4	SW846 6010C	#
Lead, Total	330	mg/kg	2.7	0.89	SW846 6010C	#
Magnesium, Total	2980	mg/kg	13.3	4.4	SW846 6010C	#
Manganese, Total	213	mg/kg	1.3	0.44	SW846 6010C	#
Mercury, Total	0.20	mg/kg	0.072	0.023	SW846 7471B	#
Nickel, Total	19.1	mg/kg	2.7	0.89	SW846 6010C	#
Potassium, Total	1120	mg/kg	66.6	22.3	SW846 6010C	#
Selenium, Total	8.0	mg/kg	6.7	2.2	SW846 6010C	#
Silver, Total	0.84	mg/kg	0.67	0.22	SW846 6010C	#
Sodium, Total	313	mg/kg	66.6	22.3	SW846 6010C	#
Thallium, Total	4.7	mg/kg	4.0	1.3	SW846 6010C	#
Vanadium, Total	37.0	mg/kg	1.3	0.44	SW846 6010C	#
Zinc, Total	164	mg/kg	2.7	0.89	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	958J	ug/kg	1070	181	SW846 8270E	#
2-Methylnaphthalene	3180	ug/kg	533	90.6	SW846 8270E	#
Acenaphthene	224J	ug/kg	267	90.6	SW846 8270E	#
Acenaphthylene	380	ug/kg	267	90.6	SW846 8270E	#
Acetophenone	14200	ug/kg	533	90.6	SW846 8270E	#
Anthracene	778	ug/kg	267	90.6	SW846 8270E	#
Benzo(a)anthracene	2200	ug/kg	267	90.6	SW846 8270E	#
Benzo(a)pyrene	1170	ug/kg	267	90.6	SW846 8270E	#
Benzo(b)fluoranthene	1730	ug/kg	267	90.6	SW846 8270E	#
Benzo(g,h,i)perylene	1050	ug/kg	267	90.6	SW846 8270E	#
Benzo(k)fluoranthene	1620	ug/kg	267	90.6	SW846 8270E	#
Biphenyl	817	ug/kg	533	90.6	SW846 8270E	#
Carbazole	293J	ug/kg	533	90.6	SW846 8270E	#
Chrysene	2450	ug/kg	267	90.6	SW846 8270E	#
Dibenzo(a,h)anthracene	304	ug/kg	267	90.6	SW846 8270E	#
Dibenzofuran	2330	ug/kg	533	90.6	SW846 8270E	#
Fluoranthene	5950	ug/kg	267	90.6	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	1100	ug/kg	267	90.6	SW846 8270E	#
Naphthalene	14300	ug/kg	267	90.6	SW846 8270E	#
o-Cresol	1300	ug/kg	1070	181	SW846 8270E	#
Phenanthrene	6360	ug/kg	267	90.6	SW846 8270E	#
Phenol	1170	ug/kg	1070	181	SW846 8270E	#

Detected Results Summary

Sample - SB-217-6 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
SEMIVOLATILES (cont.)						
Pyrene	4040	ug/kg	267	90.6	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	1090	ug/kg	765	191	SW846 8260D	#
1,3,5-Trimethylbenzene	685J	ug/kg	765	153	SW846 8260D	#
Benzene	3890	ug/kg	765	176	SW846 8260D	#
Ethylbenzene	622J	ug/kg	765	260	SW846 8260D	#
Isopropylbenzene	195J	ug/kg	765	168	SW846 8260D	#
Methyl acetate	424J	ug/kg	1530	245	SW846 8260D	#
Methyl cyclohexane	1550	ug/kg	765	230	SW846 8260D	#
mp-Xylene	1210J	ug/kg	1530	398	SW846 8260D	#
o-Xylene	2060	ug/kg	765	252	SW846 8260D	#
Toluene	535J	ug/kg	765	176	SW846 8260D	#
Total Xylenes	3270	ug/kg	2300	505	SW846 8260D	#
WET CHEMISTRY						
Moisture	31.8	%	0.1	0.01	S2540G-15	#
Total Solids	68.2	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-217-3	Collected	11/15/2024 08:00
Lab Sample ID	3388148002	Lab Receipt	11/16/2024 08:38

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	2790	mg/kg	11.2	3.7	SW846 6010C	#
Arsenic, Total	6.2	mg/kg	2.2	0.74	SW846 6010C	#
Barium, Total	68.7	mg/kg	1.1	0.37	SW846 6010C	#
Beryllium, Total	0.57J	mg/kg	1.1	0.37	SW846 6010C	#
Calcium, Total	7140	mg/kg	11.2	3.7	SW846 6010C	#
Chromium, Total	22.5	mg/kg	1.1	0.37	SW846 6010C	#
Cobalt, Total	6.1	mg/kg	1.1	0.37	SW846 6010C	#
Copper, Total	25.1	mg/kg	2.2	0.74	SW846 6010C	#
Iron, Total	13800	mg/kg	11.2	3.7	SW846 6010C	#
Lead, Total	83.0	mg/kg	2.2	0.74	SW846 6010C	#
Magnesium, Total	866	mg/kg	11.2	3.7	SW846 6010C	#
Manganese, Total	685	mg/kg	1.1	0.37	SW846 6010C	#
Mercury, Total	0.41	mg/kg	0.053	0.017	SW846 7471B	#
Nickel, Total	8.3	mg/kg	2.2	0.74	SW846 6010C	#
Potassium, Total	326	mg/kg	55.8	18.6	SW846 6010C	#
Sodium, Total	128	mg/kg	55.8	18.6	SW846 6010C	#
Vanadium, Total	6.2	mg/kg	1.1	0.37	SW846 6010C	#
Zinc, Total	98.4	mg/kg	2.2	0.74	SW846 6010C	#
SEMIVOLATILES						
1,2,4,5-Tetrachlorobenzene	281J	ug/kg	430	73.1	SW846 8270E	#
2-Methylnaphthalene	2450	ug/kg	430	73.1	SW846 8270E	#
Acenaphthene	361	ug/kg	215	73.1	SW846 8270E	#
Acenaphthylene	1610	ug/kg	215	73.1	SW846 8270E	#
Acetophenone	823	ug/kg	430	73.1	SW846 8270E	#
Anthracene	2130	ug/kg	215	73.1	SW846 8270E	#
Benzo(a)anthracene	5010	ug/kg	215	73.1	SW846 8270E	#
Benzo(a)pyrene	3720	ug/kg	215	73.1	SW846 8270E	#
Benzo(b)fluoranthene	4240	ug/kg	215	73.1	SW846 8270E	#
Benzo(g,h,i)perylene	2690	ug/kg	215	73.1	SW846 8270E	#
Benzo(k)fluoranthene	4060	ug/kg	215	73.1	SW846 8270E	#
Biphenyl	535	ug/kg	430	73.1	SW846 8270E	#
bis(2-Ethylhexyl)phthalate	101J	ug/kg	430	94.6	SW846 8270E	#
Carbazole	1410	ug/kg	430	73.1	SW846 8270E	#
Chrysene	5660	ug/kg	215	73.1	SW846 8270E	#
Dibenzo(a,h)anthracene	838	ug/kg	215	73.1	SW846 8270E	#
Dibenzofuran	1890	ug/kg	430	73.1	SW846 8270E	#
Fluoranthene	12200	ug/kg	215	73.1	SW846 8270E	#
Fluorene	2240	ug/kg	215	73.1	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	2850	ug/kg	215	73.1	SW846 8270E	#
Naphthalene	8460	ug/kg	215	73.1	SW846 8270E	#
Phenanthrene	11200	ug/kg	215	73.1	SW846 8270E	#
Pyrene	9160	ug/kg	215	73.1	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	1190	ug/kg	961	240	SW846 8260D	#
1,3,5-Trimethylbenzene	1950	ug/kg	961	192	SW846 8260D	#
Benzene	539J	ug/kg	961	221	SW846 8260D	#

Detected Results Summary

Sample - SB-217-3 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Methyl acetate	506J	ug/kg	1920	308	SW846 8260D	#
Methyl cyclohexane	497J	ug/kg	961	288	SW846 8260D	#
mp-Xylene	4060	ug/kg	1920	500	SW846 8260D	#
o-Xylene	1830	ug/kg	961	317	SW846 8260D	#
Toluene	1010	ug/kg	961	221	SW846 8260D	#
Total Xylenes	5880	ug/kg	2880	635	SW846 8260D	#
WET CHEMISTRY						
Moisture	13.9	%	0.1	0.01	S2540G-15	#
Total Solids	86.1	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-220-10	Collected	11/15/2024 08:45
Lab Sample ID	3388148003	Lab Receipt	11/16/2024 08:38

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	6620	mg/kg	29.4	9.8	SW846 6010C	#
Antimony, Total	10.9	mg/kg	5.9	2.0	SW846 6010C	#
Arsenic, Total	18.9	mg/kg	5.9	2.0	SW846 6010C	#
Barium, Total	190	mg/kg	2.9	0.98	SW846 6010C	#
Cadmium, Total	4.7	mg/kg	1.5	0.49	SW846 6010C	#
Calcium, Total	59900	mg/kg	29.4	9.8	SW846 6010C	#
Chromium, Total	28.4	mg/kg	2.9	0.98	SW846 6010C	#
Cobalt, Total	11.3	mg/kg	2.9	0.98	SW846 6010C	#
Copper, Total	164	mg/kg	5.9	2.0	SW846 6010C	#
Iron, Total	43700	mg/kg	29.4	9.8	SW846 6010C	#
Lead, Total	323	mg/kg	5.9	2.0	SW846 6010C	#
Magnesium, Total	6840	mg/kg	29.4	9.8	SW846 6010C	#
Manganese, Total	1830	mg/kg	2.9	0.98	SW846 6010C	#
Mercury, Total	0.63	mg/kg	0.065	0.021	SW846 7471B	#
Nickel, Total	20.2	mg/kg	5.9	2.0	SW846 6010C	#
Potassium, Total	640	mg/kg	147	49.1	SW846 6010C	#
Selenium, Total	7.5J	mg/kg	14.7	4.9	SW846 6010C	#
Silver, Total	0.56J	mg/kg	1.5	0.49	SW846 6010C	#
Sodium, Total	154	mg/kg	147	49.1	SW846 6010C	#
Thallium, Total	3.2J	mg/kg	8.8	2.9	SW846 6010C	#
Vanadium, Total	20.8	mg/kg	2.9	0.98	SW846 6010C	#
Zinc, Total	347	mg/kg	5.9	2.0	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	1530	ug/kg	565	96.1	SW846 8270E	#
Acenaphthene	272J	ug/kg	283	96.1	SW846 8270E	#
Acenaphthylene	484	ug/kg	283	96.1	SW846 8270E	#
Acetophenone	149J	ug/kg	565	96.1	SW846 8270E	#
Anthracene	962	ug/kg	283	96.1	SW846 8270E	#
Benzo(a)anthracene	2780	ug/kg	283	96.1	SW846 8270E	#
Benzo(a)pyrene	3050	ug/kg	283	96.1	SW846 8270E	#
Benzo(b)fluoranthene	2910	ug/kg	283	96.1	SW846 8270E	#
Benzo(g,h,i)perylene	2170	ug/kg	283	96.1	SW846 8270E	#
Benzo(k)fluoranthene	2580	ug/kg	283	96.1	SW846 8270E	#
Biphenyl	225J	ug/kg	565	96.1	SW846 8270E	#
Carbazole	649	ug/kg	565	96.1	SW846 8270E	#
Chrysene	3320	ug/kg	283	96.1	SW846 8270E	#
Dibenzo(a,h)anthracene	583	ug/kg	283	96.1	SW846 8270E	#
Dibenzofuran	688	ug/kg	565	96.1	SW846 8270E	#
Fluoranthene	5120	ug/kg	283	96.1	SW846 8270E	#
Fluorene	442	ug/kg	283	96.1	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	2170	ug/kg	283	96.1	SW846 8270E	#
mp-Cresol	283J	ug/kg	1130	192	SW846 8270E	#
Naphthalene	1860	ug/kg	283	96.1	SW846 8270E	#
Phenanthrene	4340	ug/kg	283	96.1	SW846 8270E	#
Pyrene	4120	ug/kg	283	96.1	SW846 8270E	#
VOLATILE ORGANICS						

Detected Results Summary

Sample - SB-220-10 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
1,2,4-Trimethylbenzene	37.9J	ug/kg	78.7	19.7	SW846 8260D	#
1,3,5-Trimethylbenzene	16.1J	ug/kg	78.7	15.7	SW846 8260D	#
Bromomethane	53.6J	ug/kg	78.7	30.7	SW846 8260D	#
Cyclohexane	33.7J	ug/kg	78.7	22.8	SW846 8260D	#
Methyl acetate	134J	ug/kg	157	25.2	SW846 8260D	#
Methyl cyclohexane	169	ug/kg	78.7	23.6	SW846 8260D	#
mp-Xylene	47.8J	ug/kg	157	40.9	SW846 8260D	#
o-Xylene	36.8J	ug/kg	78.7	26.0	SW846 8260D	#
Toluene	36.4J	ug/kg	78.7	18.1	SW846 8260D	#
Total Xylenes	84.6J	ug/kg	236	51.9	SW846 8260D	#
Trichloroethene	54.3J	ug/kg	78.7	26.0	SW846 8260D	#
WET CHEMISTRY						
Moisture	31.9	%	0.1	0.01	S2540G-15	#
Total Solids	68.1	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-220-10D	Collected	11/15/2024 09:00
Lab Sample ID	3388148004	Lab Receipt	11/16/2024 08:38

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	7760	mg/kg	26.1	8.7	SW846 6010C	#
Arsenic, Total	28.1	mg/kg	5.2	1.7	SW846 6010C	#
Barium, Total	268	mg/kg	2.6	0.87	SW846 6010C	#
Beryllium, Total	0.99J	mg/kg	2.6	0.87	SW846 6010C	#
Cadmium, Total	1.3J	mg/kg	1.3	0.44	SW846 6010C	#
Calcium, Total	65900	mg/kg	26.1	8.7	SW846 6010C	#
Chromium, Total	39.5	mg/kg	2.6	0.87	SW846 6010C	#
Cobalt, Total	12.7	mg/kg	2.6	0.87	SW846 6010C	#
Copper, Total	238	mg/kg	5.2	1.7	SW846 6010C	#
Iron, Total	48100	mg/kg	26.1	8.7	SW846 6010C	#
Lead, Total	337	mg/kg	5.2	1.7	SW846 6010C	#
Magnesium, Total	8020	mg/kg	26.1	8.7	SW846 6010C	#
Manganese, Total	2140	mg/kg	2.6	0.87	SW846 6010C	#
Mercury, Total	0.80	mg/kg	0.062	0.020	SW846 7471B	#
Nickel, Total	22.1	mg/kg	5.2	1.7	SW846 6010C	#
Potassium, Total	689	mg/kg	130	43.5	SW846 6010C	#
Silver, Total	0.52J	mg/kg	1.3	0.44	SW846 6010C	#
Sodium, Total	181	mg/kg	130	43.5	SW846 6010C	#
Thallium, Total	4.6J	mg/kg	7.8	2.6	SW846 6010C	#
Vanadium, Total	19.8	mg/kg	2.6	0.87	SW846 6010C	#
Zinc, Total	362	mg/kg	5.2	1.7	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	1460	ug/kg	506	86.1	SW846 8270E	#
Acenaphthene	134J	ug/kg	253	86.1	SW846 8270E	#
Acenaphthylene	301	ug/kg	253	86.1	SW846 8270E	#
Acetophenone	116J	ug/kg	506	86.1	SW846 8270E	#
Anthracene	506	ug/kg	253	86.1	SW846 8270E	#
Benzo(a)anthracene	1520	ug/kg	253	86.1	SW846 8270E	#
Benzo(a)pyrene	1530	ug/kg	253	86.1	SW846 8270E	#
Benzo(b)fluoranthene	1530	ug/kg	253	86.1	SW846 8270E	#
Benzo(g,h,i)perylene	1200	ug/kg	253	86.1	SW846 8270E	#
Benzo(k)fluoranthene	1360	ug/kg	253	86.1	SW846 8270E	#
Biphenyl	202J	ug/kg	506	86.1	SW846 8270E	#
Carbazole	294J	ug/kg	506	86.1	SW846 8270E	#
Chrysene	1730	ug/kg	253	86.1	SW846 8270E	#
Dibenzo(a,h)anthracene	288	ug/kg	253	86.1	SW846 8270E	#
Dibenzofuran	570	ug/kg	506	86.1	SW846 8270E	#
Fluoranthene	2870	ug/kg	253	86.1	SW846 8270E	#
Fluorene	232J	ug/kg	253	86.1	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	1150	ug/kg	253	86.1	SW846 8270E	#
mp-Cresol	210J	ug/kg	1010	172	SW846 8270E	#
Naphthalene	1610	ug/kg	253	86.1	SW846 8270E	#
Phenanthrene	2550	ug/kg	253	86.1	SW846 8270E	#
Pyrene	2310	ug/kg	253	86.1	SW846 8270E	#
VOLATILE ORGANICS						
Bromomethane	44.5J	ug/kg	71.5	27.9	SW846 8260D	#

Detected Results Summary

Sample - SB-220-10D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Cyclohexane	26.5J	ug/kg	71.5	20.7	SW846 8260D	#
Methyl acetate	105J	ug/kg	143	22.9	SW846 8260D	#
Methyl cyclohexane	124	ug/kg	71.5	21.4	SW846 8260D	#
o-Xylene	24.5J	ug/kg	71.5	23.6	SW846 8260D	#
Toluene	22.6J	ug/kg	71.5	16.4	SW846 8260D	#
Total Xylenes	56.5J	ug/kg	214	47.2	SW846 8260D	#
Trichloroethene	30.6J	ug/kg	71.5	23.6	SW846 8260D	#
WET CHEMISTRY						
Moisture	29.5	%	0.1	0.01	S2540G-15	#
Total Solids	70.5	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-218-7	Collected	11/15/2024 09:30
Lab Sample ID	3388148005	Lab Receipt	11/16/2024 08:38

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	4350	mg/kg	24.9	8.3	SW846 6010C	#
Arsenic, Total	14.9	mg/kg	5.0	1.7	SW846 6010C	#
Barium, Total	57.4	mg/kg	2.5	0.83	SW846 6010C	#
Beryllium, Total	0.90J	mg/kg	2.5	0.83	SW846 6010C	#
Calcium, Total	78200	mg/kg	24.9	8.3	SW846 6010C	#
Chromium, Total	8.0	mg/kg	2.5	0.83	SW846 6010C	#
Cobalt, Total	8.2	mg/kg	2.5	0.83	SW846 6010C	#
Copper, Total	17.3	mg/kg	5.0	1.7	SW846 6010C	#
Iron, Total	49900	mg/kg	24.9	8.3	SW846 6010C	#
Lead, Total	23.1	mg/kg	5.0	1.7	SW846 6010C	#
Magnesium, Total	10900	mg/kg	24.9	8.3	SW846 6010C	#
Manganese, Total	1470	mg/kg	2.5	0.83	SW846 6010C	#
Mercury, Total	0.18	mg/kg	0.062	0.020	SW846 7471B	#
Nickel, Total	5.3	mg/kg	5.0	1.7	SW846 6010C	#
Potassium, Total	384	mg/kg	124	41.6	SW846 6010C	#
Sodium, Total	184	mg/kg	124	41.6	SW846 6010C	#
Thallium, Total	4.5J	mg/kg	7.5	2.5	SW846 6010C	#
Vanadium, Total	9.9	mg/kg	2.5	0.83	SW846 6010C	#
Zinc, Total	90.9	mg/kg	5.0	1.7	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	728J	ug/kg	954	162	SW846 8270E	#
2-Methylnaphthalene	2340	ug/kg	477	81.1	SW846 8270E	#
Acenaphthene	389	ug/kg	238	81.1	SW846 8270E	#
Acenaphthylene	1410	ug/kg	238	81.1	SW846 8270E	#
Anthracene	2680	ug/kg	238	81.1	SW846 8270E	#
Benzo(a)anthracene	3680	ug/kg	238	81.1	SW846 8270E	#
Benzo(a)pyrene	2980	ug/kg	238	81.1	SW846 8270E	#
Benzo(b)fluoranthene	2600	ug/kg	238	81.1	SW846 8270E	#
Benzo(g,h,i)perylene	1740	ug/kg	238	81.1	SW846 8270E	#
Benzo(k)fluoranthene	2630	ug/kg	238	81.1	SW846 8270E	#
Biphenyl	439J	ug/kg	477	81.1	SW846 8270E	#
Carbazole	1130	ug/kg	477	81.1	SW846 8270E	#
Chrysene	3990	ug/kg	238	81.1	SW846 8270E	#
Dibenzo(a,h)anthracene	514	ug/kg	238	81.1	SW846 8270E	#
Dibenzofuran	1920	ug/kg	477	81.1	SW846 8270E	#
Fluoranthene	9820	ug/kg	238	81.1	SW846 8270E	#
Fluorene	2900	ug/kg	238	81.1	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	1670	ug/kg	238	81.1	SW846 8270E	#
mp-Cresol	3370	ug/kg	954	162	SW846 8270E	#
Naphthalene	46400	ug/kg	596	203	SW846 8270E	#
o-Cresol	1390	ug/kg	954	162	SW846 8270E	#
Phenanthrene	8010	ug/kg	238	81.1	SW846 8270E	#
Phenol	5030	ug/kg	954	162	SW846 8270E	#
Pyrene	8180	ug/kg	238	81.1	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	82.6J	ug/kg	103	23.8	SW846 8260D	#

Detected Results Summary

Sample - SB-218-7 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Bromomethane	83.4J	ug/kg	103	40.3	SW846 8260D	#
Methyl acetate	95.8J	ug/kg	207	33.1	SW846 8260D	#
Methyl cyclohexane	93.8J	ug/kg	103	31.0	SW846 8260D	#
mp-Xylene	108J	ug/kg	207	53.8	SW846 8260D	#
o-Xylene	44.9J	ug/kg	103	34.1	SW846 8260D	#
Toluene	150	ug/kg	103	23.8	SW846 8260D	#
Total Xylenes	153J	ug/kg	310	68.2	SW846 8260D	#
WET CHEMISTRY						
Moisture	23.7	%	0.1	0.01	S2540G-15	#
Total Solids	76.3	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-219-8.5	Collected	11/15/2024 10:10
Lab Sample ID	3388148006	Lab Receipt	11/16/2024 08:38

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	11300	mg/kg	114	38.0	SW846 6010C	#
Antimony, Total	9.1J	mg/kg	22.8	7.6	SW846 6010C	#
Arsenic, Total	33.3	mg/kg	22.8	7.6	SW846 6010C	#
Barium, Total	248	mg/kg	11.4	3.8	SW846 6010C	#
Calcium, Total	39000	mg/kg	114	38.0	SW846 6010C	#
Chromium, Total	28.2	mg/kg	11.4	3.8	SW846 6010C	#
Cobalt, Total	6.1J	mg/kg	11.4	3.8	SW846 6010C	#
Copper, Total	113	mg/kg	22.8	7.6	SW846 6010C	#
Iron, Total	62700	mg/kg	114	38.0	SW846 6010C	#
Lead, Total	241	mg/kg	22.8	7.6	SW846 6010C	#
Magnesium, Total	6770	mg/kg	114	38.0	SW846 6010C	#
Manganese, Total	1190	mg/kg	11.4	3.8	SW846 6010C	#
Nickel, Total	24.1	mg/kg	22.8	7.6	SW846 6010C	#
Potassium, Total	1410	mg/kg	571	191	SW846 6010C	#
Sodium, Total	433J	mg/kg	571	191	SW846 6010C	#
Vanadium, Total	17.2	mg/kg	11.4	3.8	SW846 6010C	#
Zinc, Total	119	mg/kg	22.8	7.6	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	688	ug/kg	121	20.5	SW846 8270E	#
Acetophenone	62.6J	ug/kg	121	20.5	SW846 8270E	#
Anthracene	75.5	ug/kg	60.4	20.5	SW846 8270E	#
Benzo(a)anthracene	222	ug/kg	60.4	20.5	SW846 8270E	#
Benzo(a)pyrene	213	ug/kg	60.4	20.5	SW846 8270E	#
Benzo(b)fluoranthene	274	ug/kg	60.4	20.5	SW846 8270E	#
Benzo(g,h,i)perylene	147	ug/kg	60.4	20.5	SW846 8270E	#
Benzo(k)fluoranthene	198	ug/kg	60.4	20.5	SW846 8270E	#
Biphenyl	76.0J	ug/kg	121	20.5	SW846 8270E	#
Carbazole	43.5J	ug/kg	121	20.5	SW846 8270E	#
Chrysene	346	ug/kg	60.4	20.5	SW846 8270E	#
Dibenzo(a,h)anthracene	56.6J	ug/kg	60.4	20.5	SW846 8270E	#
Dibenzofuran	228	ug/kg	121	20.5	SW846 8270E	#
Fluoranthene	396	ug/kg	60.4	20.5	SW846 8270E	#
Fluorene	28.9J	ug/kg	60.4	20.5	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	148	ug/kg	60.4	20.5	SW846 8270E	#
Naphthalene	443	ug/kg	60.4	20.5	SW846 8270E	#
Phenanthrene	648	ug/kg	60.4	20.5	SW846 8270E	#
Pyrene	281	ug/kg	60.4	20.5	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	125	ug/kg	60.8	15.2	SW846 8260D	#
1,3,5-Trimethylbenzene	40.8J	ug/kg	60.8	12.2	SW846 8260D	#
Benzene	40.5J	ug/kg	60.8	14.0	SW846 8260D	#
Bromomethane	47.1J	ug/kg	60.8	23.7	SW846 8260D	#
Cyclohexane	260	ug/kg	60.8	17.6	SW846 8260D	#
Ethylbenzene	54.1J	ug/kg	60.8	20.7	SW846 8260D	#
Isopropylbenzene	40.0J	ug/kg	60.8	13.4	SW846 8260D	#
Methyl acetate	118J	ug/kg	122	19.5	SW846 8260D	#

Detected Results Summary

Sample - SB-219-8.5 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Methyl cyclohexane	1080	ug/kg	60.8	18.2	SW846 8260D	#
mp-Xylene	264	ug/kg	122	31.6	SW846 8260D	#
o-Xylene	204	ug/kg	60.8	20.1	SW846 8260D	#
Toluene	176	ug/kg	60.8	14.0	SW846 8260D	#
Total Xylenes	468	ug/kg	182	40.1	SW846 8260D	#
WET CHEMISTRY						
Moisture	18.8	%	0.1	0.01	S2540G-15	#
Total Solids	81.2	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-221-9	Collected	11/15/2024 10:55
Lab Sample ID	3388148007	Lab Receipt	11/16/2024 08:38

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	13000	mg/kg	106	35.2	SW846 6010C	#
Arsenic, Total	30.5	mg/kg	21.2	7.1	SW846 6010C	#
Barium, Total	218	mg/kg	10.6	3.5	SW846 6010C	#
Calcium, Total	58000	mg/kg	106	35.2	SW846 6010C	#
Chromium, Total	47.7	mg/kg	10.6	3.5	SW846 6010C	#
Cobalt, Total	9.9J	mg/kg	10.6	3.5	SW846 6010C	#
Copper, Total	284	mg/kg	21.2	7.1	SW846 6010C	#
Iron, Total	85400	mg/kg	106	35.2	SW846 6010C	#
Lead, Total	806	mg/kg	21.2	7.1	SW846 6010C	#
Magnesium, Total	9340	mg/kg	106	35.2	SW846 6010C	#
Manganese, Total	1990	mg/kg	10.6	3.5	SW846 6010C	#
Nickel, Total	29.7	mg/kg	21.2	7.1	SW846 6010C	#
Potassium, Total	1300	mg/kg	529	177	SW846 6010C	#
Sodium, Total	403J	mg/kg	529	177	SW846 6010C	#
Vanadium, Total	12.6	mg/kg	10.6	3.5	SW846 6010C	#
Zinc, Total	252	mg/kg	21.2	7.1	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	53.3J	ug/kg	227	38.7	SW846 8270E	#
2-Methylnaphthalene	5350	ug/kg	114	19.3	SW846 8270E	#
Acenaphthene	176	ug/kg	56.9	19.3	SW846 8270E	#
Acenaphthylene	511	ug/kg	56.9	19.3	SW846 8270E	#
Acetophenone	137	ug/kg	114	19.3	SW846 8270E	#
Anthracene	2230	ug/kg	56.9	19.3	SW846 8270E	#
Benzo(a)anthracene	5010	ug/kg	56.9	19.3	SW846 8270E	#
Benzo(a)pyrene	4530	ug/kg	56.9	19.3	SW846 8270E	#
Benzo(b)fluoranthene	4810	ug/kg	56.9	19.3	SW846 8270E	#
Benzo(g,h,i)perylene	2360	ug/kg	56.9	19.3	SW846 8270E	#
Benzo(k)fluoranthene	4130	ug/kg	56.9	19.3	SW846 8270E	#
Biphenyl	844	ug/kg	114	19.3	SW846 8270E	#
Carbazole	708	ug/kg	114	19.3	SW846 8270E	#
Chrysene	5520	ug/kg	56.9	19.3	SW846 8270E	#
Dibenzo(a,h)anthracene	942	ug/kg	56.9	19.3	SW846 8270E	#
Dibenzofuran	2530	ug/kg	114	19.3	SW846 8270E	#
Fluoranthene	9900	ug/kg	569	193	SW846 8270E	#
Fluorene	250	ug/kg	56.9	19.3	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	2610	ug/kg	56.9	19.3	SW846 8270E	#
mp-Cresol	105J	ug/kg	227	38.7	SW846 8270E	#
Naphthalene	17600	ug/kg	569	193	SW846 8270E	#
o-Cresol	104J	ug/kg	227	38.7	SW846 8270E	#
Phenanthrene	11100	ug/kg	569	193	SW846 8270E	#
Phenol	260	ug/kg	227	38.7	SW846 8270E	#
Pyrene	6100	ug/kg	56.9	19.3	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	92.7	ug/kg	58.2	14.6	SW846 8260D	#
1,3,5-Trimethylbenzene	46.1J	ug/kg	58.2	11.6	SW846 8260D	#
Benzene	678	ug/kg	58.2	13.4	SW846 8260D	#

Detected Results Summary

Sample - SB-221-9 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Bromomethane	46.4J	ug/kg	58.2	22.7	SW846 8260D	#
Cyclohexane	133	ug/kg	58.2	16.9	SW846 8260D	#
Ethylbenzene	61.5	ug/kg	58.2	19.8	SW846 8260D	#
Isopropylbenzene	14.0J	ug/kg	58.2	12.8	SW846 8260D	#
Methyl acetate	63.0J	ug/kg	116	18.6	SW846 8260D	#
Methyl cyclohexane	538	ug/kg	58.2	17.5	SW846 8260D	#
mp-Xylene	884	ug/kg	116	30.3	SW846 8260D	#
o-Xylene	213	ug/kg	58.2	19.2	SW846 8260D	#
Toluene	467	ug/kg	58.2	13.4	SW846 8260D	#
Total Xylenes	1100	ug/kg	175	38.4	SW846 8260D	#
WET CHEMISTRY						
Moisture	15.4	%	0.1	0.01	S2540G-15	#
Total Solids	84.6	%	0.1	0.01	S2540G-15	#

Results

Client Sample ID	SB-217-6	Collected	11/15/2024 07:50
Lab Sample ID	3388148001	Lab Receipt	11/16/2024 08:38

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	10900	5	mg/kg	13.3	4.4	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Antimony, Total	5.9		mg/kg	2.7	0.89	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Arsenic, Total	28.7		mg/kg	2.7	0.89	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Barium, Total	186		mg/kg	1.3	0.44	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Beryllium, Total	1.0J	J	mg/kg	1.3	0.44	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Cadmium, Total	1.1		mg/kg	0.67	0.22	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Calcium, Total	18900	5	mg/kg	13.3	4.4	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Chromium, Total	37.7		mg/kg	1.3	0.44	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Cobalt, Total	17.8		mg/kg	1.3	0.44	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Copper, Total	85.7		mg/kg	2.7	0.89	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Iron, Total	32200	5	mg/kg	13.3	4.4	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Lead, Total	330	6	mg/kg	2.7	0.89	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Magnesium, Total	2980	5	mg/kg	13.3	4.4	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Manganese, Total	213	5	mg/kg	1.3	0.44	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Mercury, Total	0.20		mg/kg	0.072	0.023	SW846 7471B	1	11/26/2024 11:41	JMS	F
Nickel, Total	19.1		mg/kg	2.7	0.89	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Potassium, Total	1120	7,8,9	mg/kg	66.6	22.3	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Selenium, Total	8.0		mg/kg	6.7	2.2	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Silver, Total	0.84		mg/kg	0.67	0.22	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Sodium, Total	313		mg/kg	66.6	22.3	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Thallium, Total	4.7		mg/kg	4.0	1.3	SW846 6010C	1	12/03/2024 11:53	MSY	F1
Vanadium, Total	37.0		mg/kg	1.3	0.44	SW846 6010C	1	11/27/2024 10:00	MSY	F1
Zinc, Total	164	10	mg/kg	2.7	0.89	SW846 6010C	1	11/27/2024 10:00	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
1,4-Dioxane	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	1070	181	SW846 8270E	4	11/20/2024 15:48	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	1070	181	SW846 8270E	4	11/20/2024 15:48	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	1070	181	SW846 8270E	4	11/20/2024 15:48	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	1070	181	SW846 8270E	4	11/20/2024 15:48	S7M	F
2,4-Dimethylphenol	958J	J	ug/kg	1070	181	SW846 8270E	4	11/20/2024 15:48	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	2130	1060	SW846 8270E	4	11/20/2024 15:48	S7M	F
2,4-Dinitrotoluene	ND	ND,2	ug/kg	533	107	SW846 8270E	4	11/20/2024 15:48	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	533	181	SW846 8270E	4	11/20/2024 15:48	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
2-Chlorophenol	ND	ND	ug/kg	1070	181	SW846 8270E	4	11/20/2024 15:48	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,3	ug/kg	1070	267	SW846 8270E	4	11/20/2024 15:48	S7M	F
2-Methylnaphthalene	3180		ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
2-Nitroaniline	ND	ND	ug/kg	1070	123	SW846 8270E	4	11/20/2024 15:48	S7M	F
2-Nitrophenol	ND	ND,4	ug/kg	1070	181	SW846 8270E	4	11/20/2024 15:48	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	1070	165	SW846 8270E	4	11/20/2024 15:48	S7M	F
3-Nitroaniline	ND	ND	ug/kg	1070	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	1070	181	SW846 8270E	4	11/20/2024 15:48	S7M	F

Results

Client Sample ID	SB-217-6	Collected	11/15/2024 07:50
Lab Sample ID	3388148001	Lab Receipt	11/16/2024 08:38

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	1070	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
4-Nitroaniline	ND	ND	ug/kg	1070	155	SW846 8270E	4	11/20/2024 15:48	S7M	F
4-Nitrophenol	ND	ND	ug/kg	1070	181	SW846 8270E	4	11/20/2024 15:48	S7M	F
Acenaphthene	224J	J	ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Acenaphthylene	380		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Acetophenone	14200		ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Anthracene	778		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Atrazine	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Benzaldehyde	ND	ND	ug/kg	1070	107	SW846 8270E	4	11/20/2024 15:48	S7M	F
Benzo(a)anthracene	2200		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Benzo(a)pyrene	1170		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Benzo(b)fluoranthene	1730		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Benzo(g,h,i)perylene	1050		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Benzo(k)fluoranthene	1620		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Biphenyl	817		ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	533	117	SW846 8270E	4	11/20/2024 15:48	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Caprolactam	ND	ND	ug/kg	1070	208	SW846 8270E	4	11/20/2024 15:48	S7M	F
Carbazole	293J	J	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Chrysene	2450		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Dibenzo(a,h)anthracene	304		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Dibenzofuran	2330		ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Diethylphthalate	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Dimethylphthalate	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	533	187	SW846 8270E	4	11/20/2024 15:48	S7M	F
Di-n-Octylphthalate	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Fluoranthene	5950		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Fluorene	ND	ND	ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	1070	160	SW846 8270E	4	11/20/2024 15:48	S7M	F
Hexachloroethane	ND	ND	ug/kg	533	123	SW846 8270E	4	11/20/2024 15:48	S7M	F
Indeno(1,2,3-cd)pyrene	1100		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Isophorone	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
mp-Cresol	ND	ND	ug/kg	1070	181	SW846 8270E	4	11/20/2024 15:48	S7M	F
Naphthalene	14300		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Nitrobenzene	ND	ND	ug/kg	533	181	SW846 8270E	4	11/20/2024 15:48	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	533	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
o-Cresol	1300		ug/kg	1070	181	SW846 8270E	4	11/20/2024 15:48	S7M	F
Pentachlorophenol	ND	ND	ug/kg	1070	261	SW846 8270E	4	11/20/2024 15:48	S7M	F
Phenanthrene	6360		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F
Phenol	1170		ug/kg	1070	181	SW846 8270E	4	11/20/2024 15:48	S7M	F

Results

Client Sample ID	SB-217-6	Collected	11/15/2024 07:50
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	4040		ug/kg	267	90.6	SW846 8270E	4	11/20/2024 15:48	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	111%	19 – 132	11/20/2024 15:48	
2-Fluorobiphenyl	321-60-8	82.1%	40 – 110	11/20/2024 15:48	
2-Fluorophenol	367-12-4	73%	26 – 116	11/20/2024 15:48	
Nitrobenzene-d5	4165-60-0	83%	38 – 112	11/20/2024 15:48	
Phenol-d5	4165-62-2	74.8%	35 – 111	11/20/2024 15:48	
Terphenyl-d14	98904-43-9	107%	45 – 126	11/20/2024 15:48	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	765	168	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	765	260	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,1,2-Trichloroethane	ND	ND	ug/kg	765	252	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,1-Dichloroethane	ND	ND	ug/kg	765	214	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,1-Dichloroethene	ND	ND	ug/kg	765	222	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,2,3-Trichlorobenzene	ND	ND	ug/kg	1530	712	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,2,3-Trichloropropane	ND	ND	ug/kg	1530	459	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	1530	627	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,2,4-Trimethylbenzene	1090		ug/kg	765	191	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	5360	1150	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,2-Dibromoethane	ND	ND	ug/kg	765	214	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,2-Dichlorobenzene	ND	ND	ug/kg	765	291	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,2-Dichloroethane	ND	ND	ug/kg	765	245	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	1530	344	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,2-Dichloropropane	ND	ND	ug/kg	765	184	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,3,5-Trimethylbenzene	685J	J	ug/kg	765	153	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,3-Dichlorobenzene	ND	ND	ug/kg	765	191	SW846 8260D	500	11/26/2024 14:08	JTH	A
1,4-Dichlorobenzene	ND	ND	ug/kg	765	207	SW846 8260D	500	11/26/2024 14:08	JTH	A
2-Butanone	ND	ND	ug/kg	7650	1380	SW846 8260D	500	11/26/2024 14:08	JTH	A
2-Hexanone	ND	ND	ug/kg	3830	995	SW846 8260D	500	11/26/2024 14:08	JTH	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,1	ug/kg	3830	1150	SW846 8260D	500	11/26/2024 14:08	JTH	A
Acetone	ND	ND	ug/kg	7650	2370	SW846 8260D	500	11/26/2024 14:08	JTH	A
Benzene	3890		ug/kg	765	176	SW846 8260D	500	11/26/2024 14:08	JTH	A
Bromochloromethane	ND	ND	ug/kg	765	245	SW846 8260D	500	11/26/2024 14:08	JTH	A
Bromodichloromethane	ND	ND	ug/kg	765	207	SW846 8260D	500	11/26/2024 14:08	JTH	A
Bromoform	ND	ND	ug/kg	765	306	SW846 8260D	500	11/26/2024 14:08	JTH	A
Bromomethane	ND	ND	ug/kg	765	298	SW846 8260D	500	11/26/2024 14:08	JTH	A
Carbon Disulfide	ND	ND	ug/kg	765	176	SW846 8260D	500	11/26/2024 14:08	JTH	A
Carbon Tetrachloride	ND	ND	ug/kg	765	237	SW846 8260D	500	11/26/2024 14:08	JTH	A
Chlorobenzene	ND	ND	ug/kg	765	145	SW846 8260D	500	11/26/2024 14:08	JTH	A
Chlorodibromomethane	ND	ND	ug/kg	765	344	SW846 8260D	500	11/26/2024 14:08	JTH	A
Chloroethane	ND	ND	ug/kg	765	252	SW846 8260D	500	11/26/2024 14:08	JTH	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	765	161	SW846 8260D	500	11/26/2024 14:08	JTH	A
Chloromethane	ND	ND	ug/kg	765	237	SW846 8260D	500	11/26/2024 14:08	JTH	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	765	245	SW846 8260D	500	11/26/2024 14:08	JTH	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	765	237	SW846 8260D	500	11/26/2024 14:08	JTH	A
Cyclohexane	ND	ND	ug/kg	765	222	SW846 8260D	500	11/26/2024 14:08	JTH	A
Dichlorodifluoromethane	ND	ND	ug/kg	765	252	SW846 8260D	500	11/26/2024 14:08	JTH	A
Ethylbenzene	622J	J	ug/kg	765	260	SW846 8260D	500	11/26/2024 14:08	JTH	A
Freon 113	ND	ND	ug/kg	765	199	SW846 8260D	500	11/26/2024 14:08	JTH	A
Isopropylbenzene	195J	J	ug/kg	765	168	SW846 8260D	500	11/26/2024 14:08	JTH	A
Methyl acetate	424J	J	ug/kg	1530	245	SW846 8260D	500	11/26/2024 14:08	JTH	A
Methyl cyclohexane	1550		ug/kg	765	230	SW846 8260D	500	11/26/2024 14:08	JTH	A
Methyl t-Butyl Ether	ND	ND	ug/kg	765	252	SW846 8260D	500	11/26/2024 14:08	JTH	A
Methylene Chloride	ND	ND	ug/kg	765	344	SW846 8260D	500	11/26/2024 14:08	JTH	A
mp-Xylene	1210J	J	ug/kg	1530	398	SW846 8260D	500	11/26/2024 14:08	JTH	A
o-Xylene	2060		ug/kg	765	252	SW846 8260D	500	11/26/2024 14:08	JTH	A
Styrene	ND	ND	ug/kg	765	184	SW846 8260D	500	11/26/2024 14:08	JTH	A
Tetrachloroethene	ND	ND	ug/kg	765	268	SW846 8260D	500	11/26/2024 14:08	JTH	A
Toluene	535J	J	ug/kg	765	176	SW846 8260D	500	11/26/2024 14:08	JTH	A
Total Xylenes	3270		ug/kg	2300	505	SW846 8260D	500	11/26/2024 14:08	JTH	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	765	199	SW846 8260D	500	11/26/2024 14:08	JTH	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	765	222	SW846 8260D	500	11/26/2024 14:08	JTH	A
Trichloroethene	ND	ND	ug/kg	765	252	SW846 8260D	500	11/26/2024 14:08	JTH	A
Trichlorofluoromethane	ND	ND	ug/kg	765	184	SW846 8260D	500	11/26/2024 14:08	JTH	A
Vinyl Chloride	ND	ND	ug/kg	765	230	SW846 8260D	500	11/26/2024 14:08	JTH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	71 – 146	11/26/2024 14:08	
4-Bromofluorobenzene	460-00-4	89%	46 – 138	11/26/2024 14:08	
Dibromofluoromethane	1868-53-7	103%	42 – 143	11/26/2024 14:08	
Toluene-d8	2037-26-5	115%	54 – 141	11/26/2024 14:08	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	31.8		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A
Total Solids	68.2		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A

Results

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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	2790	S1	mg/kg	11.2	3.7	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Antimony, Total	ND	ND,S1	mg/kg	2.2	0.74	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Arsenic, Total	6.2	S1	mg/kg	2.2	0.74	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Barium, Total	68.7	S1	mg/kg	1.1	0.37	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Beryllium, Total	0.57J	J,S1	mg/kg	1.1	0.37	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Cadmium, Total	ND	ND,S1	mg/kg	0.56	0.19	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Calcium, Total	7140	12,S1	mg/kg	11.2	3.7	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Chromium, Total	22.5	S1	mg/kg	1.1	0.37	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Cobalt, Total	6.1	S1	mg/kg	1.1	0.37	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Copper, Total	25.1	S1	mg/kg	2.2	0.74	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Iron, Total	13800	S1	mg/kg	11.2	3.7	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Lead, Total	83.0	S1	mg/kg	2.2	0.74	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Magnesium, Total	866	S1	mg/kg	11.2	3.7	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Manganese, Total	685	S1	mg/kg	1.1	0.37	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Mercury, Total	0.41	S1	mg/kg	0.053	0.017	SW846 7471B	1	11/26/2024 11:40	JMS	F
Nickel, Total	8.3	S1	mg/kg	2.2	0.74	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Potassium, Total	326	S1	mg/kg	55.8	18.6	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Selenium, Total	ND	ND,S1	mg/kg	5.6	1.9	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Silver, Total	ND	ND,S1	mg/kg	0.56	0.19	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Sodium, Total	128	S1	mg/kg	55.8	18.6	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Thallium, Total	ND	ND,S1	mg/kg	3.4	1.1	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Vanadium, Total	6.2	S1	mg/kg	1.1	0.37	SW846 6010C	1	11/25/2024 12:47	MSY	F1
Zinc, Total	98.4	S1	mg/kg	2.2	0.74	SW846 6010C	1	11/25/2024 12:47	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	281J	J,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
1,4-Dioxane	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND,S1	ug/kg	860	146	SW846 8270E	4	11/20/2024 16:12	S7M	F
2,4,5-Trichlorophenol	ND	ND,S1	ug/kg	860	146	SW846 8270E	4	11/20/2024 16:12	S7M	F
2,4,6-Trichlorophenol	ND	ND,S1	ug/kg	860	146	SW846 8270E	4	11/20/2024 16:12	S7M	F
2,4-Dichlorophenol	ND	ND,S1	ug/kg	860	146	SW846 8270E	4	11/20/2024 16:12	S7M	F
2,4-Dimethylphenol	ND	ND,S1	ug/kg	860	146	SW846 8270E	4	11/20/2024 16:12	S7M	F
2,4-Dinitrophenol	ND	ND,S1	ug/kg	1720	852	SW846 8270E	4	11/20/2024 16:12	S7M	F
2,4-Dinitrotoluene	ND	ND,2,S1	ug/kg	430	86.0	SW846 8270E	4	11/20/2024 16:12	S7M	F
2,6-Dinitrotoluene	ND	ND,S1	ug/kg	430	146	SW846 8270E	4	11/20/2024 16:12	S7M	F
2-Chloronaphthalene	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
2-Chlorophenol	ND	ND,S1	ug/kg	860	146	SW846 8270E	4	11/20/2024 16:12	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,3,S1	ug/kg	860	215	SW846 8270E	4	11/20/2024 16:12	S7M	F
2-Methylnaphthalene	2450	S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
2-Nitroaniline	ND	ND,S1	ug/kg	860	98.9	SW846 8270E	4	11/20/2024 16:12	S7M	F
2-Nitrophenol	ND	ND,4,S1	ug/kg	860	146	SW846 8270E	4	11/20/2024 16:12	S7M	F
3,3-Dichlorobenzidine	ND	ND,S1	ug/kg	860	133	SW846 8270E	4	11/20/2024 16:12	S7M	F
3-Nitroaniline	ND	ND,S1	ug/kg	860	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
4-Bromophenyl-phenylether	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
4-Chloro-3-methylphenol	ND	ND,S1	ug/kg	860	146	SW846 8270E	4	11/20/2024 16:12	S7M	F

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND,S1	ug/kg	860	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
4-Chlorophenyl-phenylether	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
4-Nitroaniline	ND	ND,S1	ug/kg	860	125	SW846 8270E	4	11/20/2024 16:12	S7M	F
4-Nitrophenol	ND	ND,S1	ug/kg	860	146	SW846 8270E	4	11/20/2024 16:12	S7M	F
Acenaphthene	361	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Acenaphthylene	1610	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Acetophenone	823	S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Anthracene	2130	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Atrazine	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Benzaldehyde	ND	ND,S1	ug/kg	860	86.0	SW846 8270E	4	11/20/2024 16:12	S7M	F
Benzo(a)anthracene	5010	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Benzo(a)pyrene	3720	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Benzo(b)fluoranthene	4240	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Benzo(g,h,i)perylene	2690	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Benzo(k)fluoranthene	4060	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Biphenyl	535	S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
bis(2-Chloroethoxy)methane	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
bis(2-Chloroethyl)ether	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
bis(2-Ethylhexyl)phthalate	101J	J,S1	ug/kg	430	94.6	SW846 8270E	4	11/20/2024 16:12	S7M	F
Butylbenzylphthalate	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Caprolactam	ND	ND,S1	ug/kg	860	168	SW846 8270E	4	11/20/2024 16:12	S7M	F
Carbazole	1410	S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Chrysene	5660	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Dibenzo(a,h)anthracene	838	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Dibenzofuran	1890	S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Diethylphthalate	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Dimethylphthalate	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Di-n-Butylphthalate	ND	ND,S1	ug/kg	430	151	SW846 8270E	4	11/20/2024 16:12	S7M	F
Di-n-Octylphthalate	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Fluoranthene	12200	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Fluorene	2240	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Hexachlorobenzene	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Hexachlorobutadiene	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Hexachlorocyclopentadiene	ND	ND,S1	ug/kg	860	129	SW846 8270E	4	11/20/2024 16:12	S7M	F
Hexachloroethane	ND	ND,S1	ug/kg	430	98.9	SW846 8270E	4	11/20/2024 16:12	S7M	F
Indeno(1,2,3-cd)pyrene	2850	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Isophorone	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
mp-Cresol	ND	ND,S1	ug/kg	860	146	SW846 8270E	4	11/20/2024 16:12	S7M	F
Naphthalene	8460	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Nitrobenzene	ND	ND,S1	ug/kg	430	146	SW846 8270E	4	11/20/2024 16:12	S7M	F
N-Nitroso-di-n-propylamine	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
N-Nitrosodiphenylamine	ND	ND,S1	ug/kg	430	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
o-Cresol	ND	ND,S1	ug/kg	860	146	SW846 8270E	4	11/20/2024 16:12	S7M	F
Pentachlorophenol	ND	ND,S1	ug/kg	860	211	SW846 8270E	4	11/20/2024 16:12	S7M	F
Phenanthrene	11200	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F
Phenol	ND	ND,S1	ug/kg	860	146	SW846 8270E	4	11/20/2024 16:12	S7M	F

Results

Client Sample ID	SB-217-3	Collected	11/15/2024 08:00
Lab Sample ID	3388148002	Lab Receipt	11/16/2024 08:38

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	9160	S1	ug/kg	215	73.1	SW846 8270E	4	11/20/2024 16:12	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	89.6%	19 – 132	11/20/2024 16:12	
2-Fluorobiphenyl	321-60-8	80.2%	40 – 110	11/20/2024 16:12	
2-Fluorophenol	367-12-4	66.6%	26 – 116	11/20/2024 16:12	
Nitrobenzene-d5	4165-60-0	77.9%	38 – 112	11/20/2024 16:12	
Phenol-d5	4165-62-2	64.9%	35 – 111	11/20/2024 16:12	
Terphenyl-d14	98904-43-9	95%	45 – 126	11/20/2024 16:12	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,S1	ug/kg	961	212	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,1,2,2-Tetrachloroethane	ND	ND,S1	ug/kg	961	327	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,1,2-Trichloroethane	ND	ND,S1	ug/kg	961	317	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,1-Dichloroethane	ND	ND,S1	ug/kg	961	269	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,1-Dichloroethene	ND	ND,S1	ug/kg	961	279	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,2,3-Trichlorobenzene	ND	ND,S1	ug/kg	1920	894	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,2,3-Trichloropropane	ND	ND,S1	ug/kg	1920	577	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,2,4-Trichlorobenzene	ND	ND,S1	ug/kg	1920	788	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,2,4-Trimethylbenzene	1190	S1	ug/kg	961	240	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,2-Dibromo-3-chloropropane	ND	ND,S1	ug/kg	6730	1440	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,2-Dibromoethane	ND	ND,S1	ug/kg	961	269	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,2-Dichlorobenzene	ND	ND,S1	ug/kg	961	365	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,2-Dichloroethane	ND	ND,S1	ug/kg	961	308	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,2-Dichloroethene, Total	ND	ND,S1	ug/kg	1920	433	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,2-Dichloropropane	ND	ND,S1	ug/kg	961	231	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,3,5-Trimethylbenzene	1950	S1	ug/kg	961	192	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,3-Dichlorobenzene	ND	ND,S1	ug/kg	961	240	SW846 8260D	500	11/26/2024 14:28	JTH	A
1,4-Dichlorobenzene	ND	ND,S1	ug/kg	961	260	SW846 8260D	500	11/26/2024 14:28	JTH	A
2-Butanone	ND	ND,S1	ug/kg	9610	1730	SW846 8260D	500	11/26/2024 14:28	JTH	A
2-Hexanone	ND	ND,S1	ug/kg	4810	1250	SW846 8260D	500	11/26/2024 14:28	JTH	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,1,S1	ug/kg	4810	1440	SW846 8260D	500	11/26/2024 14:28	JTH	A
Acetone	ND	ND,S1	ug/kg	9610	2980	SW846 8260D	500	11/26/2024 14:28	JTH	A
Benzene	539J	J,S1	ug/kg	961	221	SW846 8260D	500	11/26/2024 14:28	JTH	A
Bromochloromethane	ND	ND,S1	ug/kg	961	308	SW846 8260D	500	11/26/2024 14:28	JTH	A
Bromodichloromethane	ND	ND,S1	ug/kg	961	260	SW846 8260D	500	11/26/2024 14:28	JTH	A
Bromoform	ND	ND,S1	ug/kg	961	385	SW846 8260D	500	11/26/2024 14:28	JTH	A
Bromomethane	ND	ND,S1	ug/kg	961	375	SW846 8260D	500	11/26/2024 14:28	JTH	A
Carbon Disulfide	ND	ND,S1	ug/kg	961	221	SW846 8260D	500	11/26/2024 14:28	JTH	A
Carbon Tetrachloride	ND	ND,S1	ug/kg	961	298	SW846 8260D	500	11/26/2024 14:28	JTH	A
Chlorobenzene	ND	ND,S1	ug/kg	961	183	SW846 8260D	500	11/26/2024 14:28	JTH	A
Chlorodibromomethane	ND	ND,S1	ug/kg	961	433	SW846 8260D	500	11/26/2024 14:28	JTH	A
Chloroethane	ND	ND,S1	ug/kg	961	317	SW846 8260D	500	11/26/2024 14:28	JTH	A

Results

Client Sample ID	SB-217-3	Collected	11/15/2024 08:00
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND,S1	ug/kg	961	202	SW846 8260D	500	11/26/2024 14:28	JTH	A
Chloromethane	ND	ND,S1	ug/kg	961	298	SW846 8260D	500	11/26/2024 14:28	JTH	A
cis-1,2-Dichloroethene	ND	ND,S1	ug/kg	961	308	SW846 8260D	500	11/26/2024 14:28	JTH	A
cis-1,3-Dichloropropene	ND	ND,S1	ug/kg	961	298	SW846 8260D	500	11/26/2024 14:28	JTH	A
Cyclohexane	ND	ND,S1	ug/kg	961	279	SW846 8260D	500	11/26/2024 14:28	JTH	A
Dichlorodifluoromethane	ND	ND,S1	ug/kg	961	317	SW846 8260D	500	11/26/2024 14:28	JTH	A
Ethylbenzene	ND	ND,S1	ug/kg	961	327	SW846 8260D	500	11/26/2024 14:28	JTH	A
Freon 113	ND	ND,S1	ug/kg	961	250	SW846 8260D	500	11/26/2024 14:28	JTH	A
Isopropylbenzene	ND	ND,S1	ug/kg	961	212	SW846 8260D	500	11/26/2024 14:28	JTH	A
Methyl acetate	506J	J,S1	ug/kg	1920	308	SW846 8260D	500	11/26/2024 14:28	JTH	A
Methyl cyclohexane	497J	J,S1	ug/kg	961	288	SW846 8260D	500	11/26/2024 14:28	JTH	A
Methyl t-Butyl Ether	ND	ND,S1	ug/kg	961	317	SW846 8260D	500	11/26/2024 14:28	JTH	A
Methylene Chloride	ND	ND,S1	ug/kg	961	433	SW846 8260D	500	11/26/2024 14:28	JTH	A
mp-Xylene	4060	S1	ug/kg	1920	500	SW846 8260D	500	11/26/2024 14:28	JTH	A
o-Xylene	1830	S1	ug/kg	961	317	SW846 8260D	500	11/26/2024 14:28	JTH	A
Styrene	ND	ND,S1	ug/kg	961	231	SW846 8260D	500	11/26/2024 14:28	JTH	A
Tetrachloroethene	ND	ND,S1	ug/kg	961	336	SW846 8260D	500	11/26/2024 14:28	JTH	A
Toluene	1010	S1	ug/kg	961	221	SW846 8260D	500	11/26/2024 14:28	JTH	A
Total Xylenes	5880	S1	ug/kg	2880	635	SW846 8260D	500	11/26/2024 14:28	JTH	A
trans-1,2-Dichloroethene	ND	ND,S1	ug/kg	961	250	SW846 8260D	500	11/26/2024 14:28	JTH	A
trans-1,3-Dichloropropene	ND	ND,S1	ug/kg	961	279	SW846 8260D	500	11/26/2024 14:28	JTH	A
Trichloroethene	ND	ND,S1	ug/kg	961	317	SW846 8260D	500	11/26/2024 14:28	JTH	A
Trichlorofluoromethane	ND	ND,S1	ug/kg	961	231	SW846 8260D	500	11/26/2024 14:28	JTH	A
Vinyl Chloride	ND	ND,S1	ug/kg	961	288	SW846 8260D	500	11/26/2024 14:28	JTH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	71 – 146	11/26/2024 14:28	
4-Bromofluorobenzene	460-00-4	104%	46 – 138	11/26/2024 14:28	
Dibromofluoromethane	1868-53-7	95.2%	42 – 143	11/26/2024 14:28	
Toluene-d8	2037-26-5	82.8%	54 – 141	11/26/2024 14:28	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	13.9	11,S1	%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A
Total Solids	86.1	S1	%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A

Results

Client Sample ID	SB-220-10	Collected	11/15/2024 08:45
Lab Sample ID	3388148003	Lab Receipt	11/16/2024 08:38

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	6620		mg/kg	29.4	9.8	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Antimony, Total	10.9		mg/kg	5.9	2.0	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Arsenic, Total	18.9		mg/kg	5.9	2.0	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Barium, Total	190		mg/kg	2.9	0.98	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Beryllium, Total	ND	ND	mg/kg	2.9	0.98	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Cadmium, Total	4.7		mg/kg	1.5	0.49	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Calcium, Total	59900		mg/kg	29.4	9.8	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Chromium, Total	28.4		mg/kg	2.9	0.98	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Cobalt, Total	11.3		mg/kg	2.9	0.98	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Copper, Total	164		mg/kg	5.9	2.0	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Iron, Total	43700		mg/kg	29.4	9.8	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Lead, Total	323		mg/kg	5.9	2.0	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Magnesium, Total	6840		mg/kg	29.4	9.8	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Manganese, Total	1830		mg/kg	2.9	0.98	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Mercury, Total	0.63		mg/kg	0.065	0.021	SW846 7471B	1	11/26/2024 11:37	JMS	F
Nickel, Total	20.2		mg/kg	5.9	2.0	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Potassium, Total	640		mg/kg	147	49.1	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Selenium, Total	7.5J	J	mg/kg	14.7	4.9	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Silver, Total	0.56J	J	mg/kg	1.5	0.49	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Sodium, Total	154		mg/kg	147	49.1	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Thallium, Total	3.2J	J	mg/kg	8.8	2.9	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Vanadium, Total	20.8		mg/kg	2.9	0.98	SW846 6010C	2	11/27/2024 10:12	MSY	F1
Zinc, Total	347		mg/kg	5.9	2.0	SW846 6010C	2	11/27/2024 10:12	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
1,4-Dioxane	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 16:37	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 16:37	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 16:37	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 16:37	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 16:37	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	2260	1120	SW846 8270E	4	11/20/2024 16:37	S7M	F
2,4-Dinitrotoluene	ND	ND,2	ug/kg	565	113	SW846 8270E	4	11/20/2024 16:37	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	565	192	SW846 8270E	4	11/20/2024 16:37	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
2-Chlorophenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 16:37	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,3	ug/kg	1130	283	SW846 8270E	4	11/20/2024 16:37	S7M	F
2-Methylnaphthalene	1530		ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
2-Nitroaniline	ND	ND	ug/kg	1130	130	SW846 8270E	4	11/20/2024 16:37	S7M	F
2-Nitrophenol	ND	ND,4	ug/kg	1130	192	SW846 8270E	4	11/20/2024 16:37	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	1130	175	SW846 8270E	4	11/20/2024 16:37	S7M	F
3-Nitroaniline	ND	ND	ug/kg	1130	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 16:37	S7M	F

Results

Client Sample ID	SB-220-10	Collected	11/15/2024 08:45
Lab Sample ID	3388148003	Lab Receipt	11/16/2024 08:38

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	1130	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
4-Nitroaniline	ND	ND	ug/kg	1130	164	SW846 8270E	4	11/20/2024 16:37	S7M	F
4-Nitrophenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 16:37	S7M	F
Acenaphthene	272J	J	ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Acenaphthylene	484		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Acetophenone	149J	J	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Anthracene	962		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Atrazine	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Benzaldehyde	ND	ND	ug/kg	1130	113	SW846 8270E	4	11/20/2024 16:37	S7M	F
Benzo(a)anthracene	2780		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Benzo(a)pyrene	3050		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Benzo(b)fluoranthene	2910		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Benzo(g,h,i)perylene	2170		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Benzo(k)fluoranthene	2580		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Biphenyl	225J	J	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	565	124	SW846 8270E	4	11/20/2024 16:37	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Caprolactam	ND	ND	ug/kg	1130	220	SW846 8270E	4	11/20/2024 16:37	S7M	F
Carbazole	649		ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Chrysene	3320		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Dibenzo(a,h)anthracene	583		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Dibenzofuran	688		ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Diethylphthalate	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Dimethylphthalate	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	565	198	SW846 8270E	4	11/20/2024 16:37	S7M	F
Di-n-Octylphthalate	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Fluoranthene	5120		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Fluorene	442		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	1130	170	SW846 8270E	4	11/20/2024 16:37	S7M	F
Hexachloroethane	ND	ND	ug/kg	565	130	SW846 8270E	4	11/20/2024 16:37	S7M	F
Indeno(1,2,3-cd)pyrene	2170		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Isophorone	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
mp-Cresol	283J	J	ug/kg	1130	192	SW846 8270E	4	11/20/2024 16:37	S7M	F
Naphthalene	1860		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Nitrobenzene	ND	ND	ug/kg	565	192	SW846 8270E	4	11/20/2024 16:37	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	565	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
o-Cresol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 16:37	S7M	F
Pentachlorophenol	ND	ND	ug/kg	1130	277	SW846 8270E	4	11/20/2024 16:37	S7M	F
Phenanthrene	4340		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F
Phenol	ND	ND	ug/kg	1130	192	SW846 8270E	4	11/20/2024 16:37	S7M	F

Results

Client Sample ID	SB-220-10	Collected	11/15/2024 08:45
Lab Sample ID	3388148003	Lab Receipt	11/16/2024 08:38

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	4120		ug/kg	283	96.1	SW846 8270E	4	11/20/2024 16:37	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	99.9%	19 – 132	11/20/2024 16:37	
2-Fluorobiphenyl	321-60-8	85.4%	40 – 110	11/20/2024 16:37	
2-Fluorophenol	367-12-4	77.3%	26 – 116	11/20/2024 16:37	
Nitrobenzene-d5	4165-60-0	80.8%	38 – 112	11/20/2024 16:37	
Phenol-d5	4165-62-2	79.8%	35 – 111	11/20/2024 16:37	
Terphenyl-d14	98904-43-9	100%	45 – 126	11/20/2024 16:37	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	78.7	17.3	SW846 8260D	50	11/27/2024 21:41	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	78.7	26.7	SW846 8260D	50	11/27/2024 21:41	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	78.7	26.0	SW846 8260D	50	11/27/2024 21:41	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	78.7	22.0	SW846 8260D	50	11/27/2024 21:41	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	78.7	22.8	SW846 8260D	50	11/27/2024 21:41	BST	A
1,2,3-Trichlorobenzene	ND	ND,17	ug/kg	157	73.2	SW846 8260D	50	11/27/2024 21:41	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	157	47.2	SW846 8260D	50	11/27/2024 21:41	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	157	64.5	SW846 8260D	50	11/27/2024 21:41	BST	A
1,2,4-Trimethylbenzene	37.9J	J	ug/kg	78.7	19.7	SW846 8260D	50	11/27/2024 21:41	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	551	118	SW846 8260D	50	11/27/2024 21:41	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	78.7	22.0	SW846 8260D	50	11/27/2024 21:41	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	78.7	29.9	SW846 8260D	50	11/27/2024 21:41	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	78.7	25.2	SW846 8260D	50	11/27/2024 21:41	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	157	35.4	SW846 8260D	50	11/27/2024 21:41	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	78.7	18.9	SW846 8260D	50	11/27/2024 21:41	BST	A
1,3,5-Trimethylbenzene	16.1J	J	ug/kg	78.7	15.7	SW846 8260D	50	11/27/2024 21:41	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	78.7	19.7	SW846 8260D	50	11/27/2024 21:41	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	78.7	21.2	SW846 8260D	50	11/27/2024 21:41	BST	A
2-Butanone	ND	ND,14	ug/kg	787	142	SW846 8260D	50	11/27/2024 21:41	BST	A
2-Hexanone	ND	ND	ug/kg	393	102	SW846 8260D	50	11/27/2024 21:41	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,16	ug/kg	393	118	SW846 8260D	50	11/27/2024 21:41	BST	A
Acetone	ND	ND	ug/kg	787	244	SW846 8260D	50	11/27/2024 21:41	BST	A
Benzene	ND	ND	ug/kg	78.7	18.1	SW846 8260D	50	11/27/2024 21:41	BST	A
Bromochloromethane	ND	ND	ug/kg	78.7	25.2	SW846 8260D	50	11/27/2024 21:41	BST	A
Bromodichloromethane	ND	ND	ug/kg	78.7	21.2	SW846 8260D	50	11/27/2024 21:41	BST	A
Bromoform	ND	ND,13	ug/kg	78.7	31.5	SW846 8260D	50	11/27/2024 21:41	BST	A
Bromomethane	53.6J	J	ug/kg	78.7	30.7	SW846 8260D	50	11/27/2024 21:41	BST	A
Carbon Disulfide	ND	ND	ug/kg	78.7	18.1	SW846 8260D	50	11/27/2024 21:41	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	78.7	24.4	SW846 8260D	50	11/27/2024 21:41	BST	A
Chlorobenzene	ND	ND	ug/kg	78.7	14.9	SW846 8260D	50	11/27/2024 21:41	BST	A
Chlorodibromomethane	ND	ND	ug/kg	78.7	35.4	SW846 8260D	50	11/27/2024 21:41	BST	A
Chloroethane	ND	ND	ug/kg	78.7	26.0	SW846 8260D	50	11/27/2024 21:41	BST	A

Results

Client Sample ID	SB-220-10	Collected	11/15/2024 08:45
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	78.7	16.5	SW846 8260D	50	11/27/2024 21:41	BST	A
Chloromethane	ND	ND	ug/kg	78.7	24.4	SW846 8260D	50	11/27/2024 21:41	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	78.7	25.2	SW846 8260D	50	11/27/2024 21:41	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	78.7	24.4	SW846 8260D	50	11/27/2024 21:41	BST	A
Cyclohexane	33.7J	J	ug/kg	78.7	22.8	SW846 8260D	50	11/27/2024 21:41	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	78.7	26.0	SW846 8260D	50	11/27/2024 21:41	BST	A
Ethylbenzene	ND	ND	ug/kg	78.7	26.7	SW846 8260D	50	11/27/2024 21:41	BST	A
Freon 113	ND	ND	ug/kg	78.7	20.5	SW846 8260D	50	11/27/2024 21:41	BST	A
Isopropylbenzene	ND	ND	ug/kg	78.7	17.3	SW846 8260D	50	11/27/2024 21:41	BST	A
Methyl acetate	134J	J,15	ug/kg	157	25.2	SW846 8260D	50	11/27/2024 21:41	BST	A
Methyl cyclohexane	169		ug/kg	78.7	23.6	SW846 8260D	50	11/27/2024 21:41	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	78.7	26.0	SW846 8260D	50	11/27/2024 21:41	BST	A
Methylene Chloride	ND	ND	ug/kg	78.7	35.4	SW846 8260D	50	11/27/2024 21:41	BST	A
mp-Xylene	47.8J	J	ug/kg	157	40.9	SW846 8260D	50	11/27/2024 21:41	BST	A
o-Xylene	36.8J	J	ug/kg	78.7	26.0	SW846 8260D	50	11/27/2024 21:41	BST	A
Styrene	ND	ND	ug/kg	78.7	18.9	SW846 8260D	50	11/27/2024 21:41	BST	A
Tetrachloroethene	ND	ND	ug/kg	78.7	27.5	SW846 8260D	50	11/27/2024 21:41	BST	A
Toluene	36.4J	J	ug/kg	78.7	18.1	SW846 8260D	50	11/27/2024 21:41	BST	A
Total Xylenes	84.6J	J	ug/kg	236	51.9	SW846 8260D	50	11/27/2024 21:41	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	78.7	20.5	SW846 8260D	50	11/27/2024 21:41	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	78.7	22.8	SW846 8260D	50	11/27/2024 21:41	BST	A
Trichloroethene	54.3J	J	ug/kg	78.7	26.0	SW846 8260D	50	11/27/2024 21:41	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	78.7	18.9	SW846 8260D	50	11/27/2024 21:41	BST	A
Vinyl Chloride	ND	ND	ug/kg	78.7	23.6	SW846 8260D	50	11/27/2024 21:41	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	92.2%	71 – 146	11/27/2024 21:41	
4-Bromofluorobenzene	460-00-4	104%	46 – 138	11/27/2024 21:41	
Dibromofluoromethane	1868-53-7	86.8%	42 – 143	11/27/2024 21:41	
Toluene-d8	2037-26-5	95.1%	54 – 141	11/27/2024 21:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	31.9		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A
Total Solids	68.1		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A

Results

Client Sample ID	SB-220-10D	Collected	11/15/2024 09:00
Lab Sample ID	3388148004	Lab Receipt	11/16/2024 08:38

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	7760		mg/kg	26.1	8.7	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Antimony, Total	ND	ND	mg/kg	5.2	1.7	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Arsenic, Total	28.1		mg/kg	5.2	1.7	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Barium, Total	268		mg/kg	2.6	0.87	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Beryllium, Total	0.99J	J	mg/kg	2.6	0.87	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Cadmium, Total	1.3J	J	mg/kg	1.3	0.44	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Calcium, Total	65900	12	mg/kg	26.1	8.7	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Chromium, Total	39.5		mg/kg	2.6	0.87	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Cobalt, Total	12.7		mg/kg	2.6	0.87	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Copper, Total	238		mg/kg	5.2	1.7	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Iron, Total	48100		mg/kg	26.1	8.7	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Lead, Total	337		mg/kg	5.2	1.7	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Magnesium, Total	8020		mg/kg	26.1	8.7	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Manganese, Total	2140		mg/kg	2.6	0.87	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Mercury, Total	0.80		mg/kg	0.062	0.020	SW846 7471B	1	11/26/2024 11:44	JMS	F
Nickel, Total	22.1		mg/kg	5.2	1.7	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Potassium, Total	689		mg/kg	130	43.5	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Selenium, Total	ND	ND	mg/kg	13.0	4.4	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Silver, Total	0.52J	J	mg/kg	1.3	0.44	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Sodium, Total	181		mg/kg	130	43.5	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Thallium, Total	4.6J	J	mg/kg	7.8	2.6	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Vanadium, Total	19.8		mg/kg	2.6	0.87	SW846 6010C	2	11/25/2024 12:55	MSY	F1
Zinc, Total	362		mg/kg	5.2	1.7	SW846 6010C	2	11/25/2024 12:55	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
1,4-Dioxane	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	1010	172	SW846 8270E	4	11/20/2024 17:01	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	1010	172	SW846 8270E	4	11/20/2024 17:01	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	1010	172	SW846 8270E	4	11/20/2024 17:01	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	1010	172	SW846 8270E	4	11/20/2024 17:01	S7M	F
2,4-Dimethylphenol	ND	ND	ug/kg	1010	172	SW846 8270E	4	11/20/2024 17:01	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	2030	1000	SW846 8270E	4	11/20/2024 17:01	S7M	F
2,4-Dinitrotoluene	ND	ND,2	ug/kg	506	101	SW846 8270E	4	11/20/2024 17:01	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	506	172	SW846 8270E	4	11/20/2024 17:01	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
2-Chlorophenol	ND	ND	ug/kg	1010	172	SW846 8270E	4	11/20/2024 17:01	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,3	ug/kg	1010	253	SW846 8270E	4	11/20/2024 17:01	S7M	F
2-Methylnaphthalene	1460		ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
2-Nitroaniline	ND	ND	ug/kg	1010	116	SW846 8270E	4	11/20/2024 17:01	S7M	F
2-Nitrophenol	ND	ND,4	ug/kg	1010	172	SW846 8270E	4	11/20/2024 17:01	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	1010	157	SW846 8270E	4	11/20/2024 17:01	S7M	F
3-Nitroaniline	ND	ND	ug/kg	1010	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	1010	172	SW846 8270E	4	11/20/2024 17:01	S7M	F

Results

Client Sample ID	SB-220-10D	Collected	11/15/2024 09:00
Lab Sample ID	3388148004	Lab Receipt	11/16/2024 08:38

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	1010	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
4-Nitroaniline	ND	ND	ug/kg	1010	147	SW846 8270E	4	11/20/2024 17:01	S7M	F
4-Nitrophenol	ND	ND	ug/kg	1010	172	SW846 8270E	4	11/20/2024 17:01	S7M	F
Acenaphthene	134J	J	ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Acenaphthylene	301		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Acetophenone	116J	J	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Anthracene	506		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Atrazine	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Benzaldehyde	ND	ND	ug/kg	1010	101	SW846 8270E	4	11/20/2024 17:01	S7M	F
Benzo(a)anthracene	1520		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Benzo(a)pyrene	1530		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Benzo(b)fluoranthene	1530		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Benzo(g,h,i)perylene	1200		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Benzo(k)fluoranthene	1360		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Biphenyl	202J	J	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	506	111	SW846 8270E	4	11/20/2024 17:01	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Caprolactam	ND	ND	ug/kg	1010	198	SW846 8270E	4	11/20/2024 17:01	S7M	F
Carbazole	294J	J	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Chrysene	1730		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Dibenzo(a,h)anthracene	288		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Dibenzofuran	570		ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Diethylphthalate	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Dimethylphthalate	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	506	177	SW846 8270E	4	11/20/2024 17:01	S7M	F
Di-n-Octylphthalate	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Fluoranthene	2870		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Fluorene	232J	J	ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	1010	152	SW846 8270E	4	11/20/2024 17:01	S7M	F
Hexachloroethane	ND	ND	ug/kg	506	116	SW846 8270E	4	11/20/2024 17:01	S7M	F
Indeno(1,2,3-cd)pyrene	1150		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Isophorone	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
mp-Cresol	210J	J	ug/kg	1010	172	SW846 8270E	4	11/20/2024 17:01	S7M	F
Naphthalene	1610		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Nitrobenzene	ND	ND	ug/kg	506	172	SW846 8270E	4	11/20/2024 17:01	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	506	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
o-Cresol	ND	ND	ug/kg	1010	172	SW846 8270E	4	11/20/2024 17:01	S7M	F
Pentachlorophenol	ND	ND	ug/kg	1010	248	SW846 8270E	4	11/20/2024 17:01	S7M	F
Phenanthrene	2550		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F
Phenol	ND	ND	ug/kg	1010	172	SW846 8270E	4	11/20/2024 17:01	S7M	F

Results

Client Sample ID	SB-220-10D	Collected	11/15/2024 09:00
Lab Sample ID	3388148004	Lab Receipt	11/16/2024 08:38

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	2310		ug/kg	253	86.1	SW846 8270E	4	11/20/2024 17:01	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	83.8%	19 – 132	11/20/2024 17:01	
2-Fluorobiphenyl	321-60-8	74.2%	40 – 110	11/20/2024 17:01	
2-Fluorophenol	367-12-4	65.4%	26 – 116	11/20/2024 17:01	
Nitrobenzene-d5	4165-60-0	64.2%	38 – 112	11/20/2024 17:01	
Phenol-d5	4165-62-2	65.9%	35 – 111	11/20/2024 17:01	
Terphenyl-d14	98904-43-9	90.3%	45 – 126	11/20/2024 17:01	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	71.5	15.7	SW846 8260D	50	11/27/2024 22:02	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	71.5	24.3	SW846 8260D	50	11/27/2024 22:02	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	71.5	23.6	SW846 8260D	50	11/27/2024 22:02	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	71.5	20.0	SW846 8260D	50	11/27/2024 22:02	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	71.5	20.7	SW846 8260D	50	11/27/2024 22:02	BST	A
1,2,3-Trichlorobenzene	ND	ND,17	ug/kg	143	66.5	SW846 8260D	50	11/27/2024 22:02	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	143	42.9	SW846 8260D	50	11/27/2024 22:02	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	143	58.6	SW846 8260D	50	11/27/2024 22:02	BST	A
1,2,4-Trimethylbenzene	ND	ND	ug/kg	71.5	17.9	SW846 8260D	50	11/27/2024 22:02	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	500	107	SW846 8260D	50	11/27/2024 22:02	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	71.5	20.0	SW846 8260D	50	11/27/2024 22:02	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	71.5	27.2	SW846 8260D	50	11/27/2024 22:02	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	71.5	22.9	SW846 8260D	50	11/27/2024 22:02	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	143	32.2	SW846 8260D	50	11/27/2024 22:02	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	71.5	17.2	SW846 8260D	50	11/27/2024 22:02	BST	A
1,3,5-Trimethylbenzene	ND	ND	ug/kg	71.5	14.3	SW846 8260D	50	11/27/2024 22:02	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	71.5	17.9	SW846 8260D	50	11/27/2024 22:02	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	71.5	19.3	SW846 8260D	50	11/27/2024 22:02	BST	A
2-Butanone	ND	ND,14	ug/kg	715	129	SW846 8260D	50	11/27/2024 22:02	BST	A
2-Hexanone	ND	ND	ug/kg	357	92.9	SW846 8260D	50	11/27/2024 22:02	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,16	ug/kg	357	107	SW846 8260D	50	11/27/2024 22:02	BST	A
Acetone	ND	ND	ug/kg	715	222	SW846 8260D	50	11/27/2024 22:02	BST	A
Benzene	ND	ND	ug/kg	71.5	16.4	SW846 8260D	50	11/27/2024 22:02	BST	A
Bromochloromethane	ND	ND	ug/kg	71.5	22.9	SW846 8260D	50	11/27/2024 22:02	BST	A
Bromodichloromethane	ND	ND	ug/kg	71.5	19.3	SW846 8260D	50	11/27/2024 22:02	BST	A
Bromoform	ND	ND,13	ug/kg	71.5	28.6	SW846 8260D	50	11/27/2024 22:02	BST	A
Bromomethane	44.5J	J	ug/kg	71.5	27.9	SW846 8260D	50	11/27/2024 22:02	BST	A
Carbon Disulfide	ND	ND	ug/kg	71.5	16.4	SW846 8260D	50	11/27/2024 22:02	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	71.5	22.2	SW846 8260D	50	11/27/2024 22:02	BST	A
Chlorobenzene	ND	ND	ug/kg	71.5	13.6	SW846 8260D	50	11/27/2024 22:02	BST	A
Chlorodibromomethane	ND	ND	ug/kg	71.5	32.2	SW846 8260D	50	11/27/2024 22:02	BST	A
Chloroethane	ND	ND	ug/kg	71.5	23.6	SW846 8260D	50	11/27/2024 22:02	BST	A

Results

Client Sample ID	SB-220-10D	Collected	11/15/2024 09:00
Lab Sample ID	3388148004	Lab Receipt	11/16/2024 08:38

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	71.5	15.0	SW846 8260D	50	11/27/2024 22:02	BST	A
Chloromethane	ND	ND	ug/kg	71.5	22.2	SW846 8260D	50	11/27/2024 22:02	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	71.5	22.9	SW846 8260D	50	11/27/2024 22:02	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	71.5	22.2	SW846 8260D	50	11/27/2024 22:02	BST	A
Cyclohexane	26.5J	J	ug/kg	71.5	20.7	SW846 8260D	50	11/27/2024 22:02	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	71.5	23.6	SW846 8260D	50	11/27/2024 22:02	BST	A
Ethylbenzene	ND	ND	ug/kg	71.5	24.3	SW846 8260D	50	11/27/2024 22:02	BST	A
Freon 113	ND	ND	ug/kg	71.5	18.6	SW846 8260D	50	11/27/2024 22:02	BST	A
Isopropylbenzene	ND	ND	ug/kg	71.5	15.7	SW846 8260D	50	11/27/2024 22:02	BST	A
Methyl acetate	105J	J,15	ug/kg	143	22.9	SW846 8260D	50	11/27/2024 22:02	BST	A
Methyl cyclohexane	124		ug/kg	71.5	21.4	SW846 8260D	50	11/27/2024 22:02	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	71.5	23.6	SW846 8260D	50	11/27/2024 22:02	BST	A
Methylene Chloride	ND	ND	ug/kg	71.5	32.2	SW846 8260D	50	11/27/2024 22:02	BST	A
mp-Xylene	ND	ND	ug/kg	143	37.2	SW846 8260D	50	11/27/2024 22:02	BST	A
o-Xylene	24.5J	J	ug/kg	71.5	23.6	SW846 8260D	50	11/27/2024 22:02	BST	A
Styrene	ND	ND	ug/kg	71.5	17.2	SW846 8260D	50	11/27/2024 22:02	BST	A
Tetrachloroethene	ND	ND	ug/kg	71.5	25.0	SW846 8260D	50	11/27/2024 22:02	BST	A
Toluene	22.6J	J	ug/kg	71.5	16.4	SW846 8260D	50	11/27/2024 22:02	BST	A
Total Xylenes	56.5J	J	ug/kg	214	47.2	SW846 8260D	50	11/27/2024 22:02	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	71.5	18.6	SW846 8260D	50	11/27/2024 22:02	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	71.5	20.7	SW846 8260D	50	11/27/2024 22:02	BST	A
Trichloroethene	30.6J	J	ug/kg	71.5	23.6	SW846 8260D	50	11/27/2024 22:02	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	71.5	17.2	SW846 8260D	50	11/27/2024 22:02	BST	A
Vinyl Chloride	ND	ND	ug/kg	71.5	21.4	SW846 8260D	50	11/27/2024 22:02	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	95%	71 – 146	11/27/2024 22:02	
4-Bromofluorobenzene	460-00-4	105%	46 – 138	11/27/2024 22:02	
Dibromofluoromethane	1868-53-7	90.6%	42 – 143	11/27/2024 22:02	
Toluene-d8	2037-26-5	98.1%	54 – 141	11/27/2024 22:02	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	29.5		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A
Total Solids	70.5		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A

Results

Client Sample ID	SB-218-7	Collected	11/15/2024 09:30
Lab Sample ID	3388148005	Lab Receipt	11/16/2024 08:38

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	4350		mg/kg	24.9	8.3	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Antimony, Total	ND	ND	mg/kg	5.0	1.7	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Arsenic, Total	14.9		mg/kg	5.0	1.7	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Barium, Total	57.4		mg/kg	2.5	0.83	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Beryllium, Total	0.90J	J	mg/kg	2.5	0.83	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Cadmium, Total	ND	ND	mg/kg	1.2	0.42	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Calcium, Total	78200	12	mg/kg	24.9	8.3	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Chromium, Total	8.0		mg/kg	2.5	0.83	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Cobalt, Total	8.2		mg/kg	2.5	0.83	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Copper, Total	17.3		mg/kg	5.0	1.7	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Iron, Total	49900		mg/kg	24.9	8.3	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Lead, Total	23.1		mg/kg	5.0	1.7	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Magnesium, Total	10900		mg/kg	24.9	8.3	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Manganese, Total	1470		mg/kg	2.5	0.83	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Mercury, Total	0.18		mg/kg	0.062	0.020	SW846 7471B	1	11/26/2024 11:36	JMS	F
Nickel, Total	5.3		mg/kg	5.0	1.7	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Potassium, Total	384		mg/kg	124	41.6	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Selenium, Total	ND	ND	mg/kg	12.4	4.2	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Silver, Total	ND	ND	mg/kg	1.2	0.42	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Sodium, Total	184		mg/kg	124	41.6	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Thallium, Total	4.5J	J	mg/kg	7.5	2.5	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Vanadium, Total	9.9		mg/kg	2.5	0.83	SW846 6010C	2	11/25/2024 12:48	MSY	F1
Zinc, Total	90.9		mg/kg	5.0	1.7	SW846 6010C	2	11/25/2024 12:48	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
1,4-Dioxane	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	954	162	SW846 8270E	4	11/20/2024 17:26	S7M	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	954	162	SW846 8270E	4	11/20/2024 17:26	S7M	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	954	162	SW846 8270E	4	11/20/2024 17:26	S7M	F
2,4-Dichlorophenol	ND	ND	ug/kg	954	162	SW846 8270E	4	11/20/2024 17:26	S7M	F
2,4-Dimethylphenol	728J	J	ug/kg	954	162	SW846 8270E	4	11/20/2024 17:26	S7M	F
2,4-Dinitrophenol	ND	ND	ug/kg	1910	944	SW846 8270E	4	11/20/2024 17:26	S7M	F
2,4-Dinitrotoluene	ND	ND,2	ug/kg	477	95.4	SW846 8270E	4	11/20/2024 17:26	S7M	F
2,6-Dinitrotoluene	ND	ND	ug/kg	477	162	SW846 8270E	4	11/20/2024 17:26	S7M	F
2-Chloronaphthalene	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
2-Chlorophenol	ND	ND	ug/kg	954	162	SW846 8270E	4	11/20/2024 17:26	S7M	F
2-Methyl-4,6-dinitrophenol	ND	ND,3	ug/kg	954	238	SW846 8270E	4	11/20/2024 17:26	S7M	F
2-Methylnaphthalene	2340		ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
2-Nitroaniline	ND	ND	ug/kg	954	110	SW846 8270E	4	11/20/2024 17:26	S7M	F
2-Nitrophenol	ND	ND,4	ug/kg	954	162	SW846 8270E	4	11/20/2024 17:26	S7M	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	954	148	SW846 8270E	4	11/20/2024 17:26	S7M	F
3-Nitroaniline	ND	ND	ug/kg	954	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	954	162	SW846 8270E	4	11/20/2024 17:26	S7M	F

Results

Client Sample ID	SB-218-7	Collected	11/15/2024 09:30
Lab Sample ID	3388148005	Lab Receipt	11/16/2024 08:38

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	954	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
4-Nitroaniline	ND	ND	ug/kg	954	138	SW846 8270E	4	11/20/2024 17:26	S7M	F
4-Nitrophenol	ND	ND	ug/kg	954	162	SW846 8270E	4	11/20/2024 17:26	S7M	F
Acenaphthene	389		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Acenaphthylene	1410		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Acetophenone	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Anthracene	2680		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Atrazine	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Benzaldehyde	ND	ND	ug/kg	954	95.4	SW846 8270E	4	11/20/2024 17:26	S7M	F
Benzo(a)anthracene	3680		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Benzo(a)pyrene	2980		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Benzo(b)fluoranthene	2600		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Benzo(g,h,i)perylene	1740		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Benzo(k)fluoranthene	2630		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Biphenyl	439J	J	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	477	105	SW846 8270E	4	11/20/2024 17:26	S7M	F
Butylbenzylphthalate	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Caprolactam	ND	ND	ug/kg	954	186	SW846 8270E	4	11/20/2024 17:26	S7M	F
Carbazole	1130		ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Chrysene	3990		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Dibenzo(a,h)anthracene	514		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Dibenzofuran	1920		ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Diethylphthalate	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Dimethylphthalate	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Di-n-Butylphthalate	ND	ND	ug/kg	477	167	SW846 8270E	4	11/20/2024 17:26	S7M	F
Di-n-Octylphthalate	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Fluoranthene	9820		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Fluorene	2900		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Hexachlorobenzene	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Hexachlorobutadiene	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	954	143	SW846 8270E	4	11/20/2024 17:26	S7M	F
Hexachloroethane	ND	ND	ug/kg	477	110	SW846 8270E	4	11/20/2024 17:26	S7M	F
Indeno(1,2,3-cd)pyrene	1670		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Isophorone	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
mp-Cresol	3370		ug/kg	954	162	SW846 8270E	4	11/20/2024 17:26	S7M	F
Naphthalene	46400		ug/kg	596	203	SW846 8270E	10	11/23/2024 08:13	M1O	F
Nitrobenzene	ND	ND	ug/kg	477	162	SW846 8270E	4	11/20/2024 17:26	S7M	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	477	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
o-Cresol	1390		ug/kg	954	162	SW846 8270E	4	11/20/2024 17:26	S7M	F
Pentachlorophenol	ND	ND	ug/kg	954	234	SW846 8270E	4	11/20/2024 17:26	S7M	F
Phenanthrene	8010		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F
Phenol	5030		ug/kg	954	162	SW846 8270E	4	11/20/2024 17:26	S7M	F

Results

Client Sample ID	SB-218-7	Collected	11/15/2024 09:30
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	8180		ug/kg	238	81.1	SW846 8270E	4	11/20/2024 17:26	S7M	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	67.9%	19 – 132	11/23/2024 08:13	
2,4,6-Tribromophenol	118-79-6	85.5%	19 – 132	11/20/2024 17:26	
2-Fluorobiphenyl	321-60-8	68%	40 – 110	11/23/2024 08:13	
2-Fluorobiphenyl	321-60-8	71.7%	40 – 110	11/20/2024 17:26	
2-Fluorophenol	367-12-4	60.1%	26 – 116	11/23/2024 08:13	
2-Fluorophenol	367-12-4	64.7%	26 – 116	11/20/2024 17:26	
Nitrobenzene-d5	4165-60-0	64.1%	38 – 112	11/23/2024 08:13	
Nitrobenzene-d5	4165-60-0	74.5%	38 – 112	11/20/2024 17:26	
Phenol-d5	4165-62-2	64.5%	35 – 111	11/23/2024 08:13	
Phenol-d5	4165-62-2	65.5%	35 – 111	11/20/2024 17:26	
Terphenyl-d14	98904-43-9	78.9%	45 – 126	11/23/2024 08:13	
Terphenyl-d14	98904-43-9	91.1%	45 – 126	11/20/2024 17:26	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	103	22.7	SW846 8260D	50	11/27/2024 22:22	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	103	35.2	SW846 8260D	50	11/27/2024 22:22	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	103	34.1	SW846 8260D	50	11/27/2024 22:22	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	103	29.0	SW846 8260D	50	11/27/2024 22:22	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	103	30.0	SW846 8260D	50	11/27/2024 22:22	BST	A
1,2,3-Trichlorobenzene	ND	ND,17	ug/kg	207	96.2	SW846 8260D	50	11/27/2024 22:22	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	207	62.0	SW846 8260D	50	11/27/2024 22:22	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	207	84.8	SW846 8260D	50	11/27/2024 22:22	BST	A
1,2,4-Trimethylbenzene	ND	ND	ug/kg	103	25.9	SW846 8260D	50	11/27/2024 22:22	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	724	155	SW846 8260D	50	11/27/2024 22:22	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	103	29.0	SW846 8260D	50	11/27/2024 22:22	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	103	39.3	SW846 8260D	50	11/27/2024 22:22	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	103	33.1	SW846 8260D	50	11/27/2024 22:22	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	207	46.5	SW846 8260D	50	11/27/2024 22:22	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	103	24.8	SW846 8260D	50	11/27/2024 22:22	BST	A
1,3,5-Trimethylbenzene	ND	ND	ug/kg	103	20.7	SW846 8260D	50	11/27/2024 22:22	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	103	25.9	SW846 8260D	50	11/27/2024 22:22	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	103	27.9	SW846 8260D	50	11/27/2024 22:22	BST	A
2-Butanone	ND	ND,14	ug/kg	1030	186	SW846 8260D	50	11/27/2024 22:22	BST	A
2-Hexanone	ND	ND	ug/kg	517	134	SW846 8260D	50	11/27/2024 22:22	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,16	ug/kg	517	155	SW846 8260D	50	11/27/2024 22:22	BST	A
Acetone	ND	ND	ug/kg	1030	321	SW846 8260D	50	11/27/2024 22:22	BST	A
Benzene	82.6J	J	ug/kg	103	23.8	SW846 8260D	50	11/27/2024 22:22	BST	A
Bromochloromethane	ND	ND	ug/kg	103	33.1	SW846 8260D	50	11/27/2024 22:22	BST	A
Bromodichloromethane	ND	ND	ug/kg	103	27.9	SW846 8260D	50	11/27/2024 22:22	BST	A
Bromoform	ND	ND,13	ug/kg	103	41.4	SW846 8260D	50	11/27/2024 22:22	BST	A

Results

Client Sample ID	SB-218-7	Collected	11/15/2024 09:30
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Bromomethane	83.4J	J	ug/kg	103	40.3	SW846 8260D	50	11/27/2024 22:22	BST	A
Carbon Disulfide	ND	ND	ug/kg	103	23.8	SW846 8260D	50	11/27/2024 22:22	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	103	32.1	SW846 8260D	50	11/27/2024 22:22	BST	A
Chlorobenzene	ND	ND	ug/kg	103	19.6	SW846 8260D	50	11/27/2024 22:22	BST	A
Chlorodibromomethane	ND	ND	ug/kg	103	46.5	SW846 8260D	50	11/27/2024 22:22	BST	A
Chloroethane	ND	ND	ug/kg	103	34.1	SW846 8260D	50	11/27/2024 22:22	BST	A
Chloroform	ND	ND	ug/kg	103	21.7	SW846 8260D	50	11/27/2024 22:22	BST	A
Chloromethane	ND	ND	ug/kg	103	32.1	SW846 8260D	50	11/27/2024 22:22	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	103	33.1	SW846 8260D	50	11/27/2024 22:22	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	103	32.1	SW846 8260D	50	11/27/2024 22:22	BST	A
Cyclohexane	ND	ND	ug/kg	103	30.0	SW846 8260D	50	11/27/2024 22:22	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	103	34.1	SW846 8260D	50	11/27/2024 22:22	BST	A
Ethylbenzene	ND	ND	ug/kg	103	35.2	SW846 8260D	50	11/27/2024 22:22	BST	A
Freon 113	ND	ND	ug/kg	103	26.9	SW846 8260D	50	11/27/2024 22:22	BST	A
Isopropylbenzene	ND	ND	ug/kg	103	22.7	SW846 8260D	50	11/27/2024 22:22	BST	A
Methyl acetate	95.8J	J,15	ug/kg	207	33.1	SW846 8260D	50	11/27/2024 22:22	BST	A
Methyl cyclohexane	93.8J	J	ug/kg	103	31.0	SW846 8260D	50	11/27/2024 22:22	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	103	34.1	SW846 8260D	50	11/27/2024 22:22	BST	A
Methylene Chloride	ND	ND	ug/kg	103	46.5	SW846 8260D	50	11/27/2024 22:22	BST	A
mp-Xylene	108J	J	ug/kg	207	53.8	SW846 8260D	50	11/27/2024 22:22	BST	A
o-Xylene	44.9J	J	ug/kg	103	34.1	SW846 8260D	50	11/27/2024 22:22	BST	A
Styrene	ND	ND	ug/kg	103	24.8	SW846 8260D	50	11/27/2024 22:22	BST	A
Tetrachloroethene	ND	ND	ug/kg	103	36.2	SW846 8260D	50	11/27/2024 22:22	BST	A
Toluene	150		ug/kg	103	23.8	SW846 8260D	50	11/27/2024 22:22	BST	A
Total Xylenes	153J	J	ug/kg	310	68.2	SW846 8260D	50	11/27/2024 22:22	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	103	26.9	SW846 8260D	50	11/27/2024 22:22	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	103	30.0	SW846 8260D	50	11/27/2024 22:22	BST	A
Trichloroethene	ND	ND	ug/kg	103	34.1	SW846 8260D	50	11/27/2024 22:22	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	103	24.8	SW846 8260D	50	11/27/2024 22:22	BST	A
Vinyl Chloride	ND	ND	ug/kg	103	31.0	SW846 8260D	50	11/27/2024 22:22	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	90.8%	71 – 146	11/27/2024 22:22	
4-Bromofluorobenzene	460-00-4	101%	46 – 138	11/27/2024 22:22	
Dibromofluoromethane	1868-53-7	84.5%	42 – 143	11/27/2024 22:22	
Toluene-d8	2037-26-5	95.6%	54 – 141	11/27/2024 22:22	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	23.7		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A
Total Solids	76.3		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A

Results

Client Sample ID	SB-218-7	Collected	11/15/2024 09:30
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WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	SB-219-8.5	Collected	11/15/2024 10:10
Lab Sample ID	3388148006	Lab Receipt	11/16/2024 08:38

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	11300		mg/kg	114	38.0	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Antimony, Total	9.1J	J	mg/kg	22.8	7.6	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Arsenic, Total	33.3		mg/kg	22.8	7.6	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Barium, Total	248		mg/kg	11.4	3.8	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Beryllium, Total	ND	ND	mg/kg	11.4	3.8	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Cadmium, Total	ND	ND	mg/kg	5.7	1.9	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Calcium, Total	39000	12	mg/kg	114	38.0	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Chromium, Total	28.2		mg/kg	11.4	3.8	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Cobalt, Total	6.1J	J	mg/kg	11.4	3.8	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Copper, Total	113		mg/kg	22.8	7.6	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Iron, Total	62700		mg/kg	114	38.0	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Lead, Total	241		mg/kg	22.8	7.6	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Magnesium, Total	6770		mg/kg	114	38.0	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Manganese, Total	1190		mg/kg	11.4	3.8	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Mercury, Total	ND	ND	mg/kg	0.052	0.017	SW846 7471B	1	11/26/2024 11:43	JMS	F
Nickel, Total	24.1		mg/kg	22.8	7.6	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Potassium, Total	1410		mg/kg	571	191	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Selenium, Total	ND	ND	mg/kg	57.1	19.1	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Silver, Total	ND	ND	mg/kg	5.7	1.9	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Sodium, Total	433J	J	mg/kg	571	191	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Thallium, Total	ND	ND	mg/kg	34.3	11.4	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Vanadium, Total	17.2		mg/kg	11.4	3.8	SW846 6010C	10	11/25/2024 12:56	MSY	F1
Zinc, Total	119		mg/kg	22.8	7.6	SW846 6010C	10	11/25/2024 12:56	MSY	F1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
1,4-Dioxane	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	241	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	241	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	241	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
2,4-Dichlorophenol	ND	ND	ug/kg	241	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
2,4-Dimethylphenol	ND	ND	ug/kg	241	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
2,4-Dinitrophenol	ND	ND	ug/kg	483	239	SW846 8270E	1	11/20/2024 16:46	CGS	F
2,4-Dinitrotoluene	ND	ND	ug/kg	121	24.1	SW846 8270E	1	11/20/2024 16:46	CGS	F
2,6-Dinitrotoluene	ND	ND	ug/kg	121	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
2-Chloronaphthalene	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
2-Chlorophenol	ND	ND	ug/kg	241	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	241	60.4	SW846 8270E	1	11/20/2024 16:46	CGS	F
2-Methylnaphthalene	688		ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
2-Nitroaniline	ND	ND	ug/kg	241	27.8	SW846 8270E	1	11/20/2024 16:46	CGS	F
2-Nitrophenol	ND	ND	ug/kg	241	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	241	37.4	SW846 8270E	1	11/20/2024 16:46	CGS	F
3-Nitroaniline	ND	ND	ug/kg	241	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	241	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F

Results

Client Sample ID	SB-219-8.5	Collected	11/15/2024 10:10
Lab Sample ID	3388148006	Lab Receipt	11/16/2024 08:38

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	241	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
4-Nitroaniline	ND	ND	ug/kg	241	35.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
4-Nitrophenol	ND	ND	ug/kg	241	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
Acenaphthene	ND	ND	ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Acenaphthylene	ND	ND	ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Acetophenone	62.6J	J	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Anthracene	75.5		ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Atrazine	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Benzaldehyde	ND	ND	ug/kg	241	24.1	SW846 8270E	1	11/20/2024 16:46	CGS	F
Benzo(a)anthracene	222		ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Benzo(a)pyrene	213		ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Benzo(b)fluoranthene	274		ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Benzo(g,h,i)perylene	147		ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Benzo(k)fluoranthene	198		ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Biphenyl	76.0J	J	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	121	26.6	SW846 8270E	1	11/20/2024 16:46	CGS	F
Butylbenzylphthalate	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Caprolactam	ND	ND	ug/kg	241	47.1	SW846 8270E	1	11/20/2024 16:46	CGS	F
Carbazole	43.5J	J	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Chrysene	346		ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Dibenzo(a,h)anthracene	56.6J	J	ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Dibenzofuran	228		ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Diethylphthalate	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Dimethylphthalate	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Di-n-Butylphthalate	ND	ND	ug/kg	121	42.2	SW846 8270E	1	11/20/2024 16:46	CGS	F
Di-n-Octylphthalate	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Fluoranthene	396		ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Fluorene	28.9J	J	ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Hexachlorobenzene	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Hexachlorobutadiene	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	241	36.2	SW846 8270E	1	11/20/2024 16:46	CGS	F
Hexachloroethane	ND	ND	ug/kg	121	27.8	SW846 8270E	1	11/20/2024 16:46	CGS	F
Indeno(1,2,3-cd)pyrene	148		ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Isophorone	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
mp-Cresol	ND	ND	ug/kg	241	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
Naphthalene	443		ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Nitrobenzene	ND	ND	ug/kg	121	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	121	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
o-Cresol	ND	ND	ug/kg	241	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F
Pentachlorophenol	ND	ND	ug/kg	241	59.1	SW846 8270E	1	11/20/2024 16:46	CGS	F
Phenanthrene	648		ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F
Phenol	ND	ND	ug/kg	241	41.0	SW846 8270E	1	11/20/2024 16:46	CGS	F

Results

Client Sample ID	SB-219-8.5	Collected	11/15/2024 10:10
Lab Sample ID	3388148006	Lab Receipt	11/16/2024 08:38

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	281		ug/kg	60.4	20.5	SW846 8270E	1	11/20/2024 16:46	CGS	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	53.6%	19 – 132	11/20/2024 16:46	
2-Fluorobiphenyl	321-60-8	50%	40 – 110	11/20/2024 16:46	
2-Fluorophenol	367-12-4	40.1%	26 – 116	11/20/2024 16:46	
Nitrobenzene-d5	4165-60-0	50.3%	38 – 112	11/20/2024 16:46	
Phenol-d5	4165-62-2	45.5%	35 – 111	11/20/2024 16:46	
Terphenyl-d14	98904-43-9	59.2%	45 – 126	11/20/2024 16:46	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	60.8	13.4	SW846 8260D	50	11/27/2024 22:43	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	60.8	20.7	SW846 8260D	50	11/27/2024 22:43	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	60.8	20.1	SW846 8260D	50	11/27/2024 22:43	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	60.8	17.0	SW846 8260D	50	11/27/2024 22:43	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	60.8	17.6	SW846 8260D	50	11/27/2024 22:43	BST	A
1,2,3-Trichlorobenzene	ND	ND,17	ug/kg	122	56.6	SW846 8260D	50	11/27/2024 22:43	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	122	36.5	SW846 8260D	50	11/27/2024 22:43	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	122	49.9	SW846 8260D	50	11/27/2024 22:43	BST	A
1,2,4-Trimethylbenzene	125		ug/kg	60.8	15.2	SW846 8260D	50	11/27/2024 22:43	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	426	91.2	SW846 8260D	50	11/27/2024 22:43	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	60.8	17.0	SW846 8260D	50	11/27/2024 22:43	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	60.8	23.1	SW846 8260D	50	11/27/2024 22:43	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	60.8	19.5	SW846 8260D	50	11/27/2024 22:43	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	122	27.4	SW846 8260D	50	11/27/2024 22:43	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	60.8	14.6	SW846 8260D	50	11/27/2024 22:43	BST	A
1,3,5-Trimethylbenzene	40.8J	J	ug/kg	60.8	12.2	SW846 8260D	50	11/27/2024 22:43	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	60.8	15.2	SW846 8260D	50	11/27/2024 22:43	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	60.8	16.4	SW846 8260D	50	11/27/2024 22:43	BST	A
2-Butanone	ND	ND,14	ug/kg	608	109	SW846 8260D	50	11/27/2024 22:43	BST	A
2-Hexanone	ND	ND	ug/kg	304	79.1	SW846 8260D	50	11/27/2024 22:43	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,16	ug/kg	304	91.2	SW846 8260D	50	11/27/2024 22:43	BST	A
Acetone	ND	ND	ug/kg	608	189	SW846 8260D	50	11/27/2024 22:43	BST	A
Benzene	40.5J	J	ug/kg	60.8	14.0	SW846 8260D	50	11/27/2024 22:43	BST	A
Bromochloromethane	ND	ND	ug/kg	60.8	19.5	SW846 8260D	50	11/27/2024 22:43	BST	A
Bromodichloromethane	ND	ND	ug/kg	60.8	16.4	SW846 8260D	50	11/27/2024 22:43	BST	A
Bromoform	ND	ND,13	ug/kg	60.8	24.3	SW846 8260D	50	11/27/2024 22:43	BST	A
Bromomethane	47.1J	J	ug/kg	60.8	23.7	SW846 8260D	50	11/27/2024 22:43	BST	A
Carbon Disulfide	ND	ND	ug/kg	60.8	14.0	SW846 8260D	50	11/27/2024 22:43	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	60.8	18.9	SW846 8260D	50	11/27/2024 22:43	BST	A
Chlorobenzene	ND	ND	ug/kg	60.8	11.6	SW846 8260D	50	11/27/2024 22:43	BST	A
Chlorodibromomethane	ND	ND	ug/kg	60.8	27.4	SW846 8260D	50	11/27/2024 22:43	BST	A
Chloroethane	ND	ND	ug/kg	60.8	20.1	SW846 8260D	50	11/27/2024 22:43	BST	A

Results

Client Sample ID	SB-219-8.5	Collected	11/15/2024 10:10
Lab Sample ID	3388148006	Lab Receipt	11/16/2024 08:38

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	60.8	12.8	SW846 8260D	50	11/27/2024 22:43	BST	A
Chloromethane	ND	ND	ug/kg	60.8	18.9	SW846 8260D	50	11/27/2024 22:43	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	60.8	19.5	SW846 8260D	50	11/27/2024 22:43	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	60.8	18.9	SW846 8260D	50	11/27/2024 22:43	BST	A
Cyclohexane	260		ug/kg	60.8	17.6	SW846 8260D	50	11/27/2024 22:43	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	60.8	20.1	SW846 8260D	50	11/27/2024 22:43	BST	A
Ethylbenzene	54.1J	J	ug/kg	60.8	20.7	SW846 8260D	50	11/27/2024 22:43	BST	A
Freon 113	ND	ND	ug/kg	60.8	15.8	SW846 8260D	50	11/27/2024 22:43	BST	A
Isopropylbenzene	40.0J	J	ug/kg	60.8	13.4	SW846 8260D	50	11/27/2024 22:43	BST	A
Methyl acetate	118J	J,15	ug/kg	122	19.5	SW846 8260D	50	11/27/2024 22:43	BST	A
Methyl cyclohexane	1080		ug/kg	60.8	18.2	SW846 8260D	50	11/27/2024 22:43	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	60.8	20.1	SW846 8260D	50	11/27/2024 22:43	BST	A
Methylene Chloride	ND	ND	ug/kg	60.8	27.4	SW846 8260D	50	11/27/2024 22:43	BST	A
mp-Xylene	264		ug/kg	122	31.6	SW846 8260D	50	11/27/2024 22:43	BST	A
o-Xylene	204		ug/kg	60.8	20.1	SW846 8260D	50	11/27/2024 22:43	BST	A
Styrene	ND	ND	ug/kg	60.8	14.6	SW846 8260D	50	11/27/2024 22:43	BST	A
Tetrachloroethene	ND	ND	ug/kg	60.8	21.3	SW846 8260D	50	11/27/2024 22:43	BST	A
Toluene	176		ug/kg	60.8	14.0	SW846 8260D	50	11/27/2024 22:43	BST	A
Total Xylenes	468		ug/kg	182	40.1	SW846 8260D	50	11/27/2024 22:43	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	60.8	15.8	SW846 8260D	50	11/27/2024 22:43	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	60.8	17.6	SW846 8260D	50	11/27/2024 22:43	BST	A
Trichloroethene	ND	ND	ug/kg	60.8	20.1	SW846 8260D	50	11/27/2024 22:43	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	60.8	14.6	SW846 8260D	50	11/27/2024 22:43	BST	A
Vinyl Chloride	ND	ND	ug/kg	60.8	18.2	SW846 8260D	50	11/27/2024 22:43	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	93.3%	71 – 146	11/27/2024 22:43	
4-Bromofluorobenzene	460-00-4	103%	46 – 138	11/27/2024 22:43	
Dibromofluoromethane	1868-53-7	87%	42 – 143	11/27/2024 22:43	
Toluene-d8	2037-26-5	96.8%	54 – 141	11/27/2024 22:43	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	18.8		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A
Total Solids	81.2		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A

Results

Client Sample ID	SB-221-9	Collected	11/15/2024 10:55
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	13000		mg/kg	106	35.2	SW846 6010C	10	11/25/2024 12:57	MSY	F
Antimony, Total	ND	ND	mg/kg	21.2	7.1	SW846 6010C	10	11/25/2024 12:57	MSY	F
Arsenic, Total	30.5		mg/kg	21.2	7.1	SW846 6010C	10	11/25/2024 12:57	MSY	F
Barium, Total	218		mg/kg	10.6	3.5	SW846 6010C	10	11/25/2024 12:57	MSY	F
Beryllium, Total	ND	ND	mg/kg	10.6	3.5	SW846 6010C	10	11/25/2024 12:57	MSY	F
Cadmium, Total	ND	ND	mg/kg	5.3	1.8	SW846 6010C	10	11/25/2024 12:57	MSY	F
Calcium, Total	58000	12	mg/kg	106	35.2	SW846 6010C	10	11/25/2024 12:57	MSY	F
Chromium, Total	47.7		mg/kg	10.6	3.5	SW846 6010C	10	11/25/2024 12:57	MSY	F
Cobalt, Total	9.9J	J	mg/kg	10.6	3.5	SW846 6010C	10	11/25/2024 12:57	MSY	F
Copper, Total	284		mg/kg	21.2	7.1	SW846 6010C	10	11/25/2024 12:57	MSY	F
Iron, Total	85400		mg/kg	106	35.2	SW846 6010C	10	11/25/2024 12:57	MSY	F
Lead, Total	806		mg/kg	21.2	7.1	SW846 6010C	10	11/25/2024 12:57	MSY	F
Magnesium, Total	9340		mg/kg	106	35.2	SW846 6010C	10	11/25/2024 12:57	MSY	F
Manganese, Total	1990		mg/kg	10.6	3.5	SW846 6010C	10	11/25/2024 12:57	MSY	F
Mercury, Total	ND	ND	mg/kg	0.058	0.018	SW846 7471B	1	11/26/2024 11:39	JMS	F
Nickel, Total	29.7		mg/kg	21.2	7.1	SW846 6010C	10	11/25/2024 12:57	MSY	F
Potassium, Total	1300		mg/kg	529	177	SW846 6010C	10	11/25/2024 12:57	MSY	F
Selenium, Total	ND	ND	mg/kg	52.9	17.7	SW846 6010C	10	11/25/2024 12:57	MSY	F
Silver, Total	ND	ND	mg/kg	5.3	1.8	SW846 6010C	10	11/25/2024 12:57	MSY	F
Sodium, Total	403J	J	mg/kg	529	177	SW846 6010C	10	11/25/2024 12:57	MSY	F
Thallium, Total	ND	ND	mg/kg	31.7	10.6	SW846 6010C	10	11/25/2024 12:57	MSY	F
Vanadium, Total	12.6		mg/kg	10.6	3.5	SW846 6010C	10	11/25/2024 12:57	MSY	F
Zinc, Total	252		mg/kg	21.2	7.1	SW846 6010C	10	11/25/2024 12:57	MSY	F

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
1,4-Dioxane	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	227	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
2,4,5-Trichlorophenol	ND	ND	ug/kg	227	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
2,4,6-Trichlorophenol	ND	ND	ug/kg	227	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
2,4-Dichlorophenol	ND	ND	ug/kg	227	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
2,4-Dimethylphenol	53.3J	J	ug/kg	227	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
2,4-Dinitrophenol	ND	ND	ug/kg	455	225	SW846 8270E	1	11/20/2024 17:13	CGS	F
2,4-Dinitrotoluene	ND	ND	ug/kg	114	22.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
2,6-Dinitrotoluene	ND	ND	ug/kg	114	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
2-Chloronaphthalene	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
2-Chlorophenol	ND	ND	ug/kg	227	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	227	56.9	SW846 8270E	1	11/20/2024 17:13	CGS	F
2-Methylnaphthalene	5350		ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
2-Nitroaniline	ND	ND	ug/kg	227	26.2	SW846 8270E	1	11/20/2024 17:13	CGS	F
2-Nitrophenol	ND	ND	ug/kg	227	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
3,3-Dichlorobenzidine	ND	ND	ug/kg	227	35.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
3-Nitroaniline	ND	ND	ug/kg	227	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
4-Bromophenyl-phenylether	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
4-Chloro-3-methylphenol	ND	ND	ug/kg	227	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F

Results

Client Sample ID	SB-221-9	Collected	11/15/2024 10:55
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	227	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
4-Chlorophenyl-phenylether	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
4-Nitroaniline	ND	ND	ug/kg	227	33.0	SW846 8270E	1	11/20/2024 17:13	CGS	F
4-Nitrophenol	ND	ND	ug/kg	227	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
Acenaphthene	176		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Acenaphthylene	511		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Acetophenone	137		ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Anthracene	2230		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Atrazine	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Benzaldehyde	ND	ND	ug/kg	227	22.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
Benzo(a)anthracene	5010		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Benzo(a)pyrene	4530		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Benzo(b)fluoranthene	4810		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Benzo(g,h,i)perylene	2360		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Benzo(k)fluoranthene	4130		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Biphenyl	844		ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
bis(2-Chloroethyl)ether	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	114	25.0	SW846 8270E	1	11/20/2024 17:13	CGS	F
Butylbenzylphthalate	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Caprolactam	ND	ND	ug/kg	227	44.4	SW846 8270E	1	11/20/2024 17:13	CGS	F
Carbazole	708		ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Chrysene	5520		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Dibenzo(a,h)anthracene	942		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Dibenzofuran	2530		ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Diethylphthalate	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Dimethylphthalate	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Di-n-Butylphthalate	ND	ND	ug/kg	114	39.8	SW846 8270E	1	11/20/2024 17:13	CGS	F
Di-n-Octylphthalate	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Fluoranthene	9900		ug/kg	569	193	SW846 8270E	10	11/23/2024 08:38	M1O	F
Fluorene	250		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Hexachlorobenzene	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Hexachlorobutadiene	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Hexachlorocyclopentadiene	ND	ND	ug/kg	227	34.1	SW846 8270E	1	11/20/2024 17:13	CGS	F
Hexachloroethane	ND	ND	ug/kg	114	26.2	SW846 8270E	1	11/20/2024 17:13	CGS	F
Indeno(1,2,3-cd)pyrene	2610		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
Isophorone	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
mp-Cresol	105J	J	ug/kg	227	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
Naphthalene	17600		ug/kg	569	193	SW846 8270E	10	11/23/2024 08:38	M1O	F
Nitrobenzene	ND	ND	ug/kg	114	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
N-Nitrosodiphenylamine	ND	ND	ug/kg	114	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F
o-Cresol	104J	J	ug/kg	227	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
Pentachlorophenol	ND	ND	ug/kg	227	55.7	SW846 8270E	1	11/20/2024 17:13	CGS	F
Phenanthrene	11100		ug/kg	569	193	SW846 8270E	10	11/23/2024 08:38	M1O	F
Phenol	260		ug/kg	227	38.7	SW846 8270E	1	11/20/2024 17:13	CGS	F

Results

Client Sample ID	SB-221-9	Collected	11/15/2024 10:55
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	6100		ug/kg	56.9	19.3	SW846 8270E	1	11/20/2024 17:13	CGS	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	70.4%	19 – 132	11/20/2024 17:13	
2,4,6-Tribromophenol	118-79-6	58.6%	19 – 132	11/23/2024 08:38	
2-Fluorobiphenyl	321-60-8	70.8%	40 – 110	11/20/2024 17:13	
2-Fluorobiphenyl	321-60-8	62.6%	40 – 110	11/23/2024 08:38	
2-Fluorophenol	367-12-4	60.7%	26 – 116	11/20/2024 17:13	
2-Fluorophenol	367-12-4	50%	26 – 116	11/23/2024 08:38	
Nitrobenzene-d5	4165-60-0	71.1%	38 – 112	11/20/2024 17:13	
Nitrobenzene-d5	4165-60-0	66.9%	38 – 112	11/23/2024 08:38	
Phenol-d5	4165-62-2	63.5%	35 – 111	11/20/2024 17:13	
Phenol-d5	4165-62-2	57.5%	35 – 111	11/23/2024 08:38	
Terphenyl-d14	98904-43-9	82.4%	45 – 126	11/20/2024 17:13	
Terphenyl-d14	98904-43-9	77.5%	45 – 126	11/23/2024 08:38	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	58.2	12.8	SW846 8260D	50	11/27/2024 23:03	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	58.2	19.8	SW846 8260D	50	11/27/2024 23:03	BST	A
1,1,2-Trichloroethane	ND	ND	ug/kg	58.2	19.2	SW846 8260D	50	11/27/2024 23:03	BST	A
1,1-Dichloroethane	ND	ND	ug/kg	58.2	16.3	SW846 8260D	50	11/27/2024 23:03	BST	A
1,1-Dichloroethene	ND	ND	ug/kg	58.2	16.9	SW846 8260D	50	11/27/2024 23:03	BST	A
1,2,3-Trichlorobenzene	ND	ND,17	ug/kg	116	54.1	SW846 8260D	50	11/27/2024 23:03	BST	A
1,2,3-Trichloropropane	ND	ND	ug/kg	116	34.9	SW846 8260D	50	11/27/2024 23:03	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/kg	116	47.7	SW846 8260D	50	11/27/2024 23:03	BST	A
1,2,4-Trimethylbenzene	92.7		ug/kg	58.2	14.6	SW846 8260D	50	11/27/2024 23:03	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	407	87.3	SW846 8260D	50	11/27/2024 23:03	BST	A
1,2-Dibromoethane	ND	ND	ug/kg	58.2	16.3	SW846 8260D	50	11/27/2024 23:03	BST	A
1,2-Dichlorobenzene	ND	ND	ug/kg	58.2	22.1	SW846 8260D	50	11/27/2024 23:03	BST	A
1,2-Dichloroethane	ND	ND	ug/kg	58.2	18.6	SW846 8260D	50	11/27/2024 23:03	BST	A
1,2-Dichloroethene, Total	ND	ND	ug/kg	116	26.2	SW846 8260D	50	11/27/2024 23:03	BST	A
1,2-Dichloropropane	ND	ND	ug/kg	58.2	14.0	SW846 8260D	50	11/27/2024 23:03	BST	A
1,3,5-Trimethylbenzene	46.1J	J	ug/kg	58.2	11.6	SW846 8260D	50	11/27/2024 23:03	BST	A
1,3-Dichlorobenzene	ND	ND	ug/kg	58.2	14.6	SW846 8260D	50	11/27/2024 23:03	BST	A
1,4-Dichlorobenzene	ND	ND	ug/kg	58.2	15.7	SW846 8260D	50	11/27/2024 23:03	BST	A
2-Butanone	ND	ND,14	ug/kg	582	105	SW846 8260D	50	11/27/2024 23:03	BST	A
2-Hexanone	ND	ND	ug/kg	291	75.7	SW846 8260D	50	11/27/2024 23:03	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,16	ug/kg	291	87.3	SW846 8260D	50	11/27/2024 23:03	BST	A
Acetone	ND	ND	ug/kg	582	180	SW846 8260D	50	11/27/2024 23:03	BST	A
Benzene	678		ug/kg	58.2	13.4	SW846 8260D	50	11/27/2024 23:03	BST	A
Bromochloromethane	ND	ND	ug/kg	58.2	18.6	SW846 8260D	50	11/27/2024 23:03	BST	A
Bromodichloromethane	ND	ND	ug/kg	58.2	15.7	SW846 8260D	50	11/27/2024 23:03	BST	A
Bromoform	ND	ND,13	ug/kg	58.2	23.3	SW846 8260D	50	11/27/2024 23:03	BST	A

Results

Client Sample ID	SB-221-9	Collected	11/15/2024 10:55
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Bromomethane	46.4J	J	ug/kg	58.2	22.7	SW846 8260D	50	11/27/2024 23:03	BST	A
Carbon Disulfide	ND	ND	ug/kg	58.2	13.4	SW846 8260D	50	11/27/2024 23:03	BST	A
Carbon Tetrachloride	ND	ND	ug/kg	58.2	18.0	SW846 8260D	50	11/27/2024 23:03	BST	A
Chlorobenzene	ND	ND	ug/kg	58.2	11.1	SW846 8260D	50	11/27/2024 23:03	BST	A
Chlorodibromomethane	ND	ND	ug/kg	58.2	26.2	SW846 8260D	50	11/27/2024 23:03	BST	A
Chloroethane	ND	ND	ug/kg	58.2	19.2	SW846 8260D	50	11/27/2024 23:03	BST	A
Chloroform	ND	ND	ug/kg	58.2	12.2	SW846 8260D	50	11/27/2024 23:03	BST	A
Chloromethane	ND	ND	ug/kg	58.2	18.0	SW846 8260D	50	11/27/2024 23:03	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/kg	58.2	18.6	SW846 8260D	50	11/27/2024 23:03	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/kg	58.2	18.0	SW846 8260D	50	11/27/2024 23:03	BST	A
Cyclohexane	133		ug/kg	58.2	16.9	SW846 8260D	50	11/27/2024 23:03	BST	A
Dichlorodifluoromethane	ND	ND	ug/kg	58.2	19.2	SW846 8260D	50	11/27/2024 23:03	BST	A
Ethylbenzene	61.5		ug/kg	58.2	19.8	SW846 8260D	50	11/27/2024 23:03	BST	A
Freon 113	ND	ND	ug/kg	58.2	15.1	SW846 8260D	50	11/27/2024 23:03	BST	A
Isopropylbenzene	14.0J	J	ug/kg	58.2	12.8	SW846 8260D	50	11/27/2024 23:03	BST	A
Methyl acetate	63.0J	J,15	ug/kg	116	18.6	SW846 8260D	50	11/27/2024 23:03	BST	A
Methyl cyclohexane	538		ug/kg	58.2	17.5	SW846 8260D	50	11/27/2024 23:03	BST	A
Methyl t-Butyl Ether	ND	ND	ug/kg	58.2	19.2	SW846 8260D	50	11/27/2024 23:03	BST	A
Methylene Chloride	ND	ND	ug/kg	58.2	26.2	SW846 8260D	50	11/27/2024 23:03	BST	A
mp-Xylene	884		ug/kg	116	30.3	SW846 8260D	50	11/27/2024 23:03	BST	A
o-Xylene	213		ug/kg	58.2	19.2	SW846 8260D	50	11/27/2024 23:03	BST	A
Styrene	ND	ND	ug/kg	58.2	14.0	SW846 8260D	50	11/27/2024 23:03	BST	A
Tetrachloroethene	ND	ND	ug/kg	58.2	20.4	SW846 8260D	50	11/27/2024 23:03	BST	A
Toluene	467		ug/kg	58.2	13.4	SW846 8260D	50	11/27/2024 23:03	BST	A
Total Xylenes	1100		ug/kg	175	38.4	SW846 8260D	50	11/27/2024 23:03	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/kg	58.2	15.1	SW846 8260D	50	11/27/2024 23:03	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/kg	58.2	16.9	SW846 8260D	50	11/27/2024 23:03	BST	A
Trichloroethene	ND	ND	ug/kg	58.2	19.2	SW846 8260D	50	11/27/2024 23:03	BST	A
Trichlorofluoromethane	ND	ND	ug/kg	58.2	14.0	SW846 8260D	50	11/27/2024 23:03	BST	A
Vinyl Chloride	ND	ND	ug/kg	58.2	17.5	SW846 8260D	50	11/27/2024 23:03	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	89.6%	71 – 146	11/27/2024 23:03	
4-Bromofluorobenzene	460-00-4	98.7%	46 – 138	11/27/2024 23:03	
Dibromofluoromethane	1868-53-7	84.2%	42 – 143	11/27/2024 23:03	
Toluene-d8	2037-26-5	94%	54 – 141	11/27/2024 23:03	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	15.4		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A
Total Solids	84.6		%	0.1	0.01	S2540G-15	1	11/18/2024 15:07	LMD	A

Results

Client Sample ID	SB-221-9	Collected	11/15/2024 10:55
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WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	TB-4	Collected	11/15/2024 00:00
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VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/25/2024 14:28	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/25/2024 14:28	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	11/25/2024 14:28	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	11/25/2024 14:28	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	11/25/2024 14:28	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	11/25/2024 14:28	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/25/2024 14:28	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/25/2024 14:28	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/25/2024 14:28	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	11/25/2024 14:28	TMP	A
Bromomethane	ND	ND,18	ug/L	1.0	0.39	SW846 8260D	1	11/25/2024 14:28	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/25/2024 14:28	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/25/2024 14:28	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	11/25/2024 14:28	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/25/2024 14:28	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/25/2024 14:28	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	11/25/2024 14:28	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/25/2024 14:28	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/25/2024 14:28	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/25/2024 14:28	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/25/2024 14:28	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/25/2024 14:28	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/25/2024 14:28	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/25/2024 14:28	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/25/2024 14:28	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	11/25/2024 14:28	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/25/2024 14:28	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/25/2024 14:28	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/25/2024 14:28	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	11/25/2024 14:28	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/25/2024 14:28	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/25/2024 14:28	TMP	A

Results

Client Sample ID	TB-4	Collected	11/15/2024 00:00
Lab Sample ID	3388148008	Lab Receipt	11/16/2024 08:38

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	11/25/2024 14:28	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/25/2024 14:28	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	11/25/2024 14:28	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/25/2024 14:28	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/25/2024 14:28	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/25/2024 14:28	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/25/2024 14:28	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/25/2024 14:28	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	11/25/2024 14:28	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	11/25/2024 14:28	
Dibromofluoromethane	1868-53-7	97.9%	78 – 116	11/25/2024 14:28	
Toluene-d8	2037-26-5	101%	76 – 127	11/25/2024 14:28	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3388148001	SB-217-6	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388148002	SB-217-3	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388148003	SB-220-10	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388148004	SB-220-10D	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388148005	SB-218-7	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388148006	SB-219-8.5	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388148007	SB-221-9	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388148008	TB-4	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1336101	Prep Method	SW846 3051A
Date	11/20/2024 16:05	Analysis Method	SW846 6010C
Tech.	AXW		

Associated Samples

3388148002 3388148004 3388148005 3388148006 3388148007

Method Blank 3907910 (MB) Created on 11/20/2024 11:17 For QC Batch 1336101

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/kg	10.0	ND
Antimony, Total	7440-36-0	BLK	ND	mg/kg	2.0	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/kg	2.0	ND
Barium, Total	7440-39-3	BLK	ND	mg/kg	1.0	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/kg	1.0	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/kg	0.50	ND
Calcium, Total	7440-70-2	BLK	11.1	mg/kg	10.0	
Chromium, Total	7440-47-3	BLK	ND	mg/kg	1.0	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/kg	1.0	ND
Copper, Total	7440-50-8	BLK	ND	mg/kg	2.0	ND
Iron, Total	7439-89-6	BLK	5.2J	mg/kg	10.0	J
Lead, Total	7439-92-1	BLK	ND	mg/kg	2.0	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/kg	10.0	ND
Manganese, Total	7439-96-5	BLK	ND	mg/kg	1.0	ND
Nickel, Total	7440-02-0	BLK	ND	mg/kg	2.0	ND
Potassium, Total	7440-09-7	BLK	ND	mg/kg	50.0	ND
Selenium, Total	7782-49-2	BLK	ND	mg/kg	5.0	ND
Silver, Total	7440-22-4	BLK	ND	mg/kg	0.50	ND
Sodium, Total	7440-23-5	BLK	20.7J	mg/kg	50.0	J
Thallium, Total	7440-28-0	BLK	ND	mg/kg	3.0	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/kg	1.0	ND
Zinc, Total	7440-66-6	BLK	ND	mg/kg	2.0	ND

Lab Control Standard 3907911 (LCS1) Created on 11/20/2024 11:17 For QC Batch 1336101

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	111		100	111	80 - 120		
Antimony, Total	7440-36-0	LCS	36.9		40	92.2	80 - 120		
Arsenic, Total	7440-38-2	LCS	39.8		40	99.4	80 - 120		
Barium, Total	7440-39-3	LCS	105		100	105	80 - 120		
Beryllium, Total	7440-41-7	LCS	40.9		40	102	80 - 120		
Cadmium, Total	7440-43-9	LCS	21		20	105	80 - 120		
Calcium, Total	7440-70-2	LCS	508		500	102	80 - 120		
Chromium, Total	7440-47-3	LCS	21.6		20	108	80 - 120		
Cobalt, Total	7440-48-4	LCS	106		100	106	80 - 120		
Copper, Total	7440-50-8	LCS	103		100	103	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Iron, Total	7439-89-6	LCS	1040		1000	104	80 - 120		
Lead, Total	7439-92-1	LCS	104		100	104	80 - 120		
Magnesium, Total	7439-95-4	LCS	521		500	104	80 - 120		
Manganese, Total	7439-96-5	LCS	21.7		20	108	80 - 120		
Nickel, Total	7440-02-0	LCS	105		100	105	80 - 120		
Potassium, Total	7440-09-7	LCS	528		500	106	80 - 120		
Selenium, Total	7782-49-2	LCS	101		100	101	80 - 120		
Silver, Total	7440-22-4	LCS	20.6		20	103	80 - 120		
Sodium, Total	7440-23-5	LCS	545		500	109	80 - 120		
Thallium, Total	7440-28-0	LCS	104		100	104	80 - 120		
Vanadium, Total	7440-62-2	LCS	20.3		20	102	80 - 120		
Zinc, Total	7440-66-6	LCS	101		100	101	80 - 120		

QC Batch

QC Batch	1339084	Prep Method	SW846 7471B
Date	11/26/2024 08:37	Analysis Method	SW846 7471B
Tech.	JMS		

Associated Samples

3388148001	3388148002	3388148003	3388148004
3388148005	3388148006	3388148007	

Matrix Spike 3909819 (MS) 3388304003 (non-Project Sample) For QC Batch 1339084

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909820 (MSD) 3388304003 (non-Project Sample) For QC Batch 1339084

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.9	0.0120	0.89	99.9	80 - 120		
Mercury, Total	7439-97-6	MSD	0.91	0.0120	0.90	100	80 - 120	RPD 0.91 (Max-20)	

Matrix Spike 3909821 (MS) 3389039001 (non-Project Sample) For QC Batch 1339084

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3909822 (MSD) 3389039001 (non-Project Sample) For QC Batch 1339084

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.92	0.15	0.92	83.3	80 - 120		
Mercury, Total	7439-97-6	MSD	0.86	0.15	0.90	79*	80 - 120	RPD 5.74 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Method Blank 3909817 (MB) Created on 11/25/2024 09:34 For QC Batch 1339084

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/kg	0.050	ND

Lab Control Standard 3909818 (LCS) Created on 11/25/2024 09:34 For QC Batch 1339084

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.42		0.40	106	80 - 120		

QC Batch

QC Batch	1341498	Prep Method	SW846 3051A
Date	11/26/2024 11:30	Analysis Method	SW846 6010C
Tech.	NBU		

Associated Samples

3388148001 3388148003

Method Blank 3910196 (MB) Created on 11/26/2024 00:21 For QC Batch 1341498

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/kg	10.0	ND
Antimony, Total	7440-36-0	BLK	ND	mg/kg	2.0	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/kg	2.0	ND
Barium, Total	7440-39-3	BLK	ND	mg/kg	1.0	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/kg	1.0	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/kg	0.50	ND
Calcium, Total	7440-70-2	BLK	3.8J	mg/kg	10.0	J
Chromium, Total	7440-47-3	BLK	ND	mg/kg	1.0	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/kg	1.0	ND
Copper, Total	7440-50-8	BLK	ND	mg/kg	2.0	ND
Iron, Total	7439-89-6	BLK	ND	mg/kg	10.0	ND
Lead, Total	7439-92-1	BLK	ND	mg/kg	2.0	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/kg	10.0	ND
Manganese, Total	7439-96-5	BLK	ND	mg/kg	1.0	ND
Nickel, Total	7440-02-0	BLK	ND	mg/kg	2.0	ND
Potassium, Total	7440-09-7	BLK	ND	mg/kg	50.0	ND
Selenium, Total	7782-49-2	BLK	ND	mg/kg	5.0	ND
Silver, Total	7440-22-4	BLK	ND	mg/kg	0.50	ND
Sodium, Total	7440-23-5	BLK	ND	mg/kg	50.0	ND
Thallium, Total	7440-28-0	BLK	ND	mg/kg	3.0	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/kg	1.0	ND
Zinc, Total	7440-66-6	BLK	ND	mg/kg	2.0	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3910197 (LCS1) Created on 11/26/2024 00:21 For QC Batch 1341498

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	110		100	110	80 - 120		
Antimony, Total	7440-36-0	LCS	38.6		40	96.4	80 - 120		
Arsenic, Total	7440-38-2	LCS	40.1		40	100	80 - 120		
Barium, Total	7440-39-3	LCS	103		100	103	80 - 120		
Beryllium, Total	7440-41-7	LCS	40.1		40	100	80 - 120		
Cadmium, Total	7440-43-9	LCS	20.6		20	103	80 - 120		
Calcium, Total	7440-70-2	LCS	522		500	104	80 - 120		
Chromium, Total	7440-47-3	LCS	21		20	105	80 - 120		
Cobalt, Total	7440-48-4	LCS	102		100	102	80 - 120		
Copper, Total	7440-50-8	LCS	98.5		100	98.5	80 - 120		
Iron, Total	7439-89-6	LCS	1000		1000	100	80 - 120		
Lead, Total	7439-92-1	LCS	102		100	102	80 - 120		
Magnesium, Total	7439-95-4	LCS	525		500	105	80 - 120		
Manganese, Total	7439-96-5	LCS	21.3		20	107	80 - 120		
Nickel, Total	7440-02-0	LCS	101		100	101	80 - 120		
Potassium, Total	7440-09-7	LCS	528		500	106	80 - 120		
Selenium, Total	7782-49-2	LCS	101		100	101	80 - 120		
Silver, Total	7440-22-4	LCS	20.2		20	101	80 - 120		
Sodium, Total	7440-23-5	LCS	525		500	105	80 - 120		
Thallium, Total	7440-28-0	LCS	103		100	103	80 - 120		
Vanadium, Total	7440-62-2	LCS	20.8		20	104	80 - 120		
Zinc, Total	7440-66-6	LCS	101		100	101	80 - 120		

Matrix Spike 3910199 (MS1) 3388148001 For QC Batch 1341498

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3910200 (MSD1) 3388148001 For QC Batch 1341498

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	MS	8550	7460	96.90	NC	75 - 125		
Aluminum, Total	7429-90-5	MSD	8550	7460	91.40	NC	75 - 125	RPD 0.05 (Max-20)	
Antimony, Total	7440-36-0	MS	33.7	4	38.80	76.8	75 - 125		
Antimony, Total	7440-36-0	MSD	34.3	4	36.60	83	75 - 125	RPD 1.74 (Max-20)	
Arsenic, Total	7440-38-2	MS	53.8	19.60	38.80	88.3	75 - 125		
Arsenic, Total	7440-38-2	MSD	55.7	19.60	36.60	98.8	75 - 125	RPD 3.48 (Max-20)	
Barium, Total	7440-39-3	MS	223	127	96.90	99.1	75 - 125		
Barium, Total	7440-39-3	MSD	217	127	91.40	98.8	75 - 125	RPD 2.61 (Max-20)	
Beryllium, Total	7440-41-7	MS	34.6	0.70	38.80	87.4	75 - 125		
Beryllium, Total	7440-41-7	MSD	34.5	0.70	36.60	92.5	75 - 125	RPD 0.25 (Max-20)	
Cadmium, Total	7440-43-9	MS	17.9	0.75	19.40	88.7	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cadmium, Total	7440-43-9	MSD	17.9	0.75	18.30	93.8	75 - 125	RPD 0.16 (Max-20)	
Calcium, Total	7440-70-2	MS	18600	12900	484	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	15200	12900	457	NC	75 - 125	RPD 20.10* (Max-20)	
Chromium, Total	7440-47-3	MS	43.3	25.70	19.40	90.8	75 - 125		
Chromium, Total	7440-47-3	MSD	44.6	25.70	18.30	103	75 - 125	RPD 2.90 (Max-20)	
Cobalt, Total	7440-48-4	MS	94.3	12.20	96.90	84.7	75 - 125		
Cobalt, Total	7440-48-4	MSD	96.5	12.20	91.40	92.3	75 - 125	RPD 2.35 (Max-20)	
Copper, Total	7440-50-8	MS	155	58.50	96.90	100	75 - 125		
Copper, Total	7440-50-8	MSD	154	58.50	91.40	104	75 - 125	RPD 1.20 (Max-20)	
Iron, Total	7439-89-6	MS	22600	21900	969	NC	75 - 125		
Iron, Total	7439-89-6	MSD	26500	21900	914	NC	75 - 125	RPD 16 (Max-20)	
Lead, Total	7439-92-1	MS	285	225	96.90	61.4*	75 - 125		
Lead, Total	7439-92-1	MSD	298	225	91.40	79.8	75 - 125	RPD 4.62 (Max-20)	
Magnesium, Total	7439-95-4	MS	2300	2030	484	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	2560	2030	457	NC	75 - 125	RPD 10.60 (Max-20)	
Manganese, Total	7439-96-5	MS	151	145	19.40	NC	75 - 125		
Manganese, Total	7439-96-5	MSD	201	145	18.30	NC	75 - 125	RPD 28.80* (Max-20)	
Nickel, Total	7440-02-0	MS	95.4	13	96.90	85	75 - 125		
Nickel, Total	7440-02-0	MSD	95.6	13	91.40	90.3	75 - 125	RPD 0.18 (Max-20)	
Potassium, Total	7440-09-7	MS	1540	763	484	160*	75 - 125		
Potassium, Total	7440-09-7	MSD	1360	763	457	130*	75 - 125	RPD 12.40 (Max-20)	
Selenium, Total	7782-49-2	MS	91.8	5.40	96.90	89.1	75 - 125		
Selenium, Total	7782-49-2	MSD	91.2	5.40	91.40	93.8	75 - 125	RPD 0.69 (Max-20)	
Silver, Total	7440-22-4	MS	18.2	0.57	19.40	90.8	75 - 125		
Silver, Total	7440-22-4	MSD	17.9	0.57	18.30	94.6	75 - 125	RPD 1.66 (Max-20)	
Sodium, Total	7440-23-5	MS	654	213	484	90.8	75 - 125		
Sodium, Total	7440-23-5	MSD	642	213	457	93.8	75 - 125	RPD 1.74 (Max-20)	
Thallium, Total	7440-28-0	MS	82.4	3.20	96.90	81.8	75 - 125		
Thallium, Total	7440-28-0	MSD	78.9	3.20	91.40	82.9	75 - 125	RPD 4.36 (Max-20)	
Vanadium, Total	7440-62-2	MS	43.4	25.20	19.40	93.5	75 - 125		
Vanadium, Total	7440-62-2	MSD	45.3	25.20	18.30	110	75 - 125	RPD 4.43 (Max-20)	
Zinc, Total	7440-66-6	MS	184	112	96.90	74.8*	75 - 125		
Zinc, Total	7440-66-6	MSD	191	112	91.40	86.6	75 - 125	RPD 3.53 (Max-20)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1334484	Prep Method	SW846 3546
Date	11/18/2024 21:15	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3388148001 3388148002 3388148003 3388148004 3388148005

Matrix Spike 3906767 (MS) 3388066028 (non-Project Sample) For QC Batch 1334484

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3906768 (MSD) 3388066028 (non-Project Sample) For QC Batch 1334484

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Methylnaphthalene	91-57-6	MS	1820	46	2450	72.3	59 - 108		
2-Methylnaphthalene	91-57-6	MSD	1830	46	2400	74.2	59 - 108	RPD 0.61 (Max-21)	
Acenaphthene	83-32-9	MS	1740	0	2450	70.9	61 - 105		
Acenaphthene	83-32-9	MSD	1800	0	2400	74.7	61 - 105	RPD 3.27 (Max-17)	
Acenaphthylene	208-96-8	MS	1500	0	2450	61.3*	63 - 106		
Acenaphthylene	208-96-8	MSD	1520	0	2400	63.2	63 - 106	RPD 1.11 (Max-17)	
Anthracene	120-12-7	MS	1850	12.40	2450	74.8	60 - 107		
Anthracene	120-12-7	MSD	1900	12.40	2400	78.4	60 - 107	RPD 2.75 (Max-20)	
Benzo(a)anthracene	56-55-3	MS	1880	61.50	2450	74.1	61 - 113		
Benzo(a)anthracene	56-55-3	MSD	1930	61.50	2400	77.8	61 - 113	RPD 2.85 (Max-22)	
Benzo(a)pyrene	50-32-8	MS	1880	59.80	2450	74.2	68 - 121		
Benzo(a)pyrene	50-32-8	MSD	1960	59.80	2400	79.2	68 - 121	RPD 4.40 (Max-24)	
Benzo(b)fluoranthene	205-99-2	MS	1820	77.90	2450	71	64 - 115		
Benzo(b)fluoranthene	205-99-2	MSD	1970	77.90	2400	78.7	64 - 115	RPD 7.99 (Max-28)	
Benzo(g,h,i)perylene	191-24-2	MS	2050	59.20	2450	81.3	57 - 119		
Benzo(g,h,i)perylene	191-24-2	MSD	2130	59.20	2400	86.3	57 - 119	RPD 3.85 (Max-30)	
Benzo(k)fluoranthene	207-08-9	MS	1860	65.90	2450	73.4	63 - 116		
Benzo(k)fluoranthene	207-08-9	MSD	1940	65.90	2400	78	63 - 116	RPD 4.01 (Max-22)	
Chrysene	218-01-9	MS	1990	101	2450	77	65 - 113		
Chrysene	218-01-9	MSD	2030	101	2400	80.5	65 - 113	RPD 2.32 (Max-20)	
Dibenzo(a,h)anthracene	53-70-3	MS	2040	20.80	2450	82.3	59 - 116		
Dibenzo(a,h)anthracene	53-70-3	MSD	2140	20.80	2400	88	59 - 116	RPD 4.79 (Max-28)	
Fluoranthene	206-44-0	MS	1900	153	2450	71.2	61 - 114		
Fluoranthene	206-44-0	MSD	1970	153	2400	75.6	61 - 114	RPD 3.73 (Max-21)	
Fluorene	86-73-7	MS	1780	0	2450	72.8	62 - 107		
Fluorene	86-73-7	MSD	1820	0	2400	75.6	62 - 107	RPD 1.82 (Max-16)	
Indeno(1,2,3-cd)pyrene	193-39-5	MS	1910	63.90	2450	75.3	53 - 118		
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	2020	63.90	2400	81.3	53 - 118	RPD 5.52 (Max-30)	
Naphthalene	91-20-3	MS	1750	68.10	2450	68.5	60 - 102		
Naphthalene	91-20-3	MSD	1780	68.10	2400	71.3	60 - 102	RPD 2.07 (Max-21)	
Phenanthrene	85-01-8	MS	1920	138	2450	72.5	61 - 106		
Phenanthrene	85-01-8	MSD	1980	138	2400	76.6	61 - 106	RPD 3.28 (Max-20)	
Pyrene	129-00-0	MS	1890	103	2450	72.9	62 - 117		
Pyrene	129-00-0	MSD	1970	103	2400	77.6	62 - 117	RPD 4 (Max-20)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Fluorobiphenyl	321-60-8	MS	1860	2450	75.8	40 - 110	
2-Fluorobiphenyl	321-60-8	MSD	1860	2400	77.6	40 - 110	
Nitrobenzene-d5	4165-60-0	MS	1960	2450	79.9	38 - 112	
Nitrobenzene-d5	4165-60-0	MSD	1990	2400	82.6	38 - 112	
Terphenyl-d14	98904-43-9	MS	2290	2450	93.6	45 - 126	
Terphenyl-d14	98904-43-9	MSD	2390	2400	99.3	45 - 126	

Method Blank 3906765 (MB) Created on 11/18/2024 11:28 For QC Batch 1334484

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4920	5000	98.3	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	2190	2500	87.4	40 - 110	
2-Fluorophenol	367-12-4	BLK	4190	5000	83.8	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	2390	2500	95.7	38 - 112	
Phenol-d5	4165-62-2	BLK	4190	5000	83.8	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2680	2500	107	45 - 126	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

Lab Control Standard 3906766 (LCS) Created on 11/18/2024 11:28 For QC Batch 1334484

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1850		2500	74	51 - 102		
1,4-Dioxane	123-91-1	LCS	1450		2500	58	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	4250		5000	84.9	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4410		5000	88.3	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4380		5000	87.6	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4500		5000	90	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	5100		5000	102	59 - 133		
2,4-Dinitrophenol	51-28-5	LCS	4820		5000	96.4	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2310		2500	92.5	62 - 115		
2,6-Dinitrotoluene	606-20-2	LCS	2200		2500	87.9	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	1920		2500	76.6	59 - 104		
2-Chlorophenol	95-57-8	LCS	4300		5000	86	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4990		5000	99.8	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	1940		2500	77.7	59 - 108		
2-Nitroaniline	88-74-4	LCS	2230		2500	89.2	60 - 115		
2-Nitrophenol	88-75-5	LCS	4990		5000	99.7	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3390		5000	67.9	25 - 104		
3-Nitroaniline	99-09-2	LCS	2150		2500	85.8	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	1960		2500	78.5	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	4460		5000	89.2	59 - 115		
4-Chloroaniline	106-47-8	LCS	1880		2500	75.1	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	2050		2500	82.2	59 - 107		
4-Nitroaniline	100-01-6	LCS	2250		2500	89.8	49 - 121		
4-Nitrophenol	100-02-7	LCS	4240		5000	84.8	53 - 124		
Acenaphthene	83-32-9	LCS	1930		2500	77.1	61 - 105		
Acenaphthylene	208-96-8	LCS	1620		2500	65	63 - 106		
Acetophenone	98-86-2	LCS	1830		2500	73	33 - 98		
Anthracene	120-12-7	LCS	2020		2500	80.6	60 - 107		
Atrazine	1912-24-9	LCS	2210		2500	88.2	62 - 116		
Benzaldehyde	100-52-7	LCS	2080		2500	83.4	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2020		2500	80.9	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2040		2500	81.6	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2010		2500	80.5	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	2140		2500	85.5	57 - 119		
Benzo(k)fluoranthene	207-08-9	LCS	2020		2500	80.8	63 - 116		
Biphenyl	92-52-4	LCS	1750		2500	70.1	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	1990		2500	79.6	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	1840		2500	73.6	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	1830		2500	73.4	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	2320		2500	92.8	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	2210		2500	88.5	58 - 125		
Caprolactam	105-60-2	LCS	2030		2500	81	51 - 119		
Carbazole	86-74-8	LCS	1970		2500	79	66 - 117		
Chrysene	218-01-9	LCS	2050		2500	82.1	65 - 113		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dibenzo(a,h)anthracene	53-70-3	LCS	2180		2500	87.2	59 - 116		
Dibenzofuran	132-64-9	LCS	1880		2500	75.2	62 - 106		
Diethylphthalate	84-66-2	LCS	2140		2500	85.4	59 - 112		
Dimethylphthalate	131-11-3	LCS	2010		2500	80.5	60 - 111		
Di-n-Butylphthalate	84-74-2	LCS	2230		2500	89.2	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	2490		2500	99.5	47 - 134		
Fluoranthene	206-44-0	LCS	2090		2500	83.4	61 - 114		
Fluorene	86-73-7	LCS	1940		2500	77.6	62 - 107		
Hexachlorobenzene	118-74-1	LCS	2050		2500	82.1	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2410		2500	96.2	56 - 127		
Hexachlorocyclopentadiene	77-47-4	LCS	1500		2500	60.1	20 - 124		
Hexachloroethane	67-72-1	LCS	1960		2500	78.3	57 - 101		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	2020		2500	80.7	53 - 118		
Isophorone	78-59-1	LCS	1920		2500	76.9	41 - 101		
mp-Cresol	108394/106445	LCS	4450		5000	89.1	60 - 109		
Naphthalene	91-20-3	LCS	1910		2500	76.4	60 - 102		
Nitrobenzene	98-95-3	LCS	2000		2500	80.2	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	1940		2500	77.6	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2340		2500	93.6	73 - 129		
o-Cresol	95-48-7	LCS	4260		5000	85.3	61 - 108		
Pentachlorophenol	87-86-5	LCS	3450		5000	69	46 - 138		
Phenanthrene	85-01-8	LCS	1940		2500	77.6	61 - 106		
Phenol	108-95-2	LCS	4270		5000	85.3	57 - 110		
Pyrene	129-00-0	LCS	1920		2500	76.8	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	4980	5000	99.6	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	2010	2500	80.5	40 - 110	
2-Fluorophenol	367-12-4	LCS	4080	5000	81.7	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2220	2500	88.8	38 - 112	
Phenol-d5	4165-62-2	LCS	4030	5000	80.5	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2430	2500	97.3	45 - 126	

QC Batch

QC Batch	1335398	Prep Method	SW846 3546
Date	11/19/2024 22:20	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3388148006 3388148007

Method Blank 3907479 (MB) Created on 11/19/2024 15:40 For QC Batch 1335398

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4360	5000	87.1	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	2000	2500	79.8	40 - 110	
2-Fluorophenol	367-12-4	BLK	3880	5000	77.6	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	2020	2500	81	38 - 112	
Phenol-d5	4165-62-2	BLK	4220	5000	84.4	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2610	2500	104	45 - 126	

Lab Control Standard 3907480 (LCS) Created on 11/19/2024 15:40 For QC Batch 1335398

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1920		2500	76.6	51 - 102		
1,4-Dioxane	123-91-1	LCS	1720		2500	68.6	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	4480		5000	89.7	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4560		5000	91.2	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4350		5000	87	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4560		5000	91.2	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	5140		5000	103	59 - 133		
2,4-Dinitrophenol	51-28-5	LCS	4970		5000	99.5	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2300		2500	91.9	62 - 115		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2,6-Dinitrotoluene	606-20-2	LCS	2250		2500	90.2	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	2010		2500	80.4	59 - 104		
2-Chlorophenol	95-57-8	LCS	4720		5000	94.5	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4680		5000	93.7	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	2160		2500	86.4	59 - 108		
2-Nitroaniline	88-74-4	LCS	2250		2500	90	60 - 115		
2-Nitrophenol	88-75-5	LCS	4450		5000	88.9	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3350		5000	66.9	25 - 104		
3-Nitroaniline	99-09-2	LCS	2340		2500	93.7	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	2120		2500	85	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	4650		5000	93	59 - 115		
4-Chloroaniline	106-47-8	LCS	1870		2500	74.6	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	2180		2500	87.3	59 - 107		
4-Nitroaniline	100-01-6	LCS	2520		2500	101	49 - 121		
4-Nitrophenol	100-02-7	LCS	5030		5000	101	53 - 124		
Acenaphthene	83-32-9	LCS	2060		2500	82.2	61 - 105		
Acenaphthylene	208-96-8	LCS	1790		2500	71.6	63 - 106		
Acetophenone	98-86-2	LCS	2010		2500	80.2	33 - 98		
Anthracene	120-12-7	LCS	2170		2500	86.8	60 - 107		
Atrazine	1912-24-9	LCS	2320		2500	92.7	62 - 116		
Benzaldehyde	100-52-7	LCS	2310		2500	92.2	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2140		2500	85.6	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2140		2500	85.6	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2170		2500	86.9	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	2080		2500	83.1	57 - 119		
Benzo(k)fluoranthene	207-08-9	LCS	2080		2500	83.2	63 - 116		
Biphenyl	92-52-4	LCS	1900		2500	75.9	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	2090		2500	83.8	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	2100		2500	84	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	1790		2500	71.6	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	2060		2500	82.4	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	2110		2500	84.5	58 - 125		
Caprolactam	105-60-2	LCS	2410		2500	96.2	51 - 119		
Carbazole	86-74-8	LCS	2140		2500	85.8	66 - 117		
Chrysene	218-01-9	LCS	2220		2500	88.9	65 - 113		
Dibenzo(a,h)anthracene	53-70-3	LCS	2080		2500	83.2	59 - 116		
Dibenzofuran	132-64-9	LCS	2060		2500	82.4	62 - 106		
Diethylphthalate	84-66-2	LCS	2240		2500	89.8	59 - 112		
Dimethylphthalate	131-11-3	LCS	2190		2500	87.5	60 - 111		
Di-n-Butylphthalate	84-74-2	LCS	2160		2500	86.2	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	2060		2500	82.3	47 - 134		
Fluoranthene	206-44-0	LCS	2230		2500	89.2	61 - 114		
Fluorene	86-73-7	LCS	2160		2500	86.5	62 - 107		
Hexachlorobenzene	118-74-1	LCS	2080		2500	83.1	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2100		2500	84.1	56 - 127		
Hexachlorocyclopentadiene	77-47-4	LCS	1690		2500	67.5	20 - 124		
Hexachloroethane	67-72-1	LCS	1800		2500	72.1	57 - 101		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	1940		2500	77.7	53 - 118		
Isophorone	78-59-1	LCS	2010		2500	80.5	41 - 101		
mp-Cresol	108394/106445	LCS	3170		5000	63.5	60 - 109		
Naphthalene	91-20-3	LCS	2000		2500	80.1	60 - 102		
Nitrobenzene	98-95-3	LCS	1920		2500	76.6	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	2010		2500	80.5	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2340		2500	93.4	73 - 129		
o-Cresol	95-48-7	LCS	4500		5000	90	61 - 108		
Pentachlorophenol	87-86-5	LCS	4100		5000	82.1	46 - 138		
Phenanthrene	85-01-8	LCS	2110		2500	84.5	61 - 106		
Phenol	108-95-2	LCS	4630		5000	92.5	57 - 110		
Pyrene	129-00-0	LCS	2220		2500	88.6	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	4710	5000	94.2	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	2110	2500	84.6	40 - 110	
2-Fluorophenol	367-12-4	LCS	4580	5000	91.5	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2210	2500	88.3	38 - 112	
Phenol-d5	4165-62-2	LCS	4770	5000	95.4	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2640	2500	105	45 - 126	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1340485	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3388148008

Duplicate 3910115 (DUP) 3388070041 (non-Project Sample) For QC Batch 1340485

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,1,1-Trichloroethane	71-55-6	DUP	0	0	RPD	0	(Max-)	ND
1,1,2,2-Tetrachloroethane	79-34-5	DUP	0	0	RPD	0	(Max-)	ND
1,1,2-Trichloroethane	79-00-5	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethane	75-34-3	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethene	75-35-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichlorobenzene	87-61-6	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichloropropane	96-18-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trichlorobenzene	120-82-1	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trimethylbenzene	95-63-6	DUP	0.3786	0.3399	RPD	10.80	(Max-)	J
1,2-Dibromo-3-chloropropane	96-12-8	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromoethane	106-93-4	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichlorobenzene	95-50-1	DUP	0.7719	0.8268	RPD	6.87	(Max-)	J
1,2-Dichloroethane	107-06-2	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloropropane	78-87-5	DUP	0	0	RPD	0	(Max-)	ND
1,3,5-Trimethylbenzene	108-67-8	DUP	0	0	RPD	0	(Max-)	ND
1,3-Dichlorobenzene	541-73-1	DUP	0.2958	0.2542	RPD	15.10	(Max-)	J
1,4-Dichlorobenzene	106-46-7	DUP	0	0	RPD	0	(Max-)	ND
2-Butanone	78-93-3	DUP	0	0	RPD	0	(Max-)	ND
2-Hexanone	591-78-6	DUP	0	0	RPD	0	(Max-)	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	DUP	0	0	RPD	0	(Max-)	ND
Acetone	67-64-1	DUP	3.6585	4.1836	RPD	13.40	(Max-)	J
Benzene	71-43-2	DUP	0.5441	0.5536	RPD	1.72	(Max-)	J
Bromochloromethane	74-97-5	DUP	0	0	RPD	0	(Max-)	ND
Bromodichloromethane	75-27-4	DUP	0	0	RPD	0	(Max-)	ND
Bromoform	75-25-2	DUP	0	0	RPD	0	(Max-)	ND
Bromomethane	74-83-9	DUP	0	0	RPD	0	(Max-)	ND
Carbon Disulfide	75-15-0	DUP	0	0	RPD	0	(Max-)	ND
Carbon Tetrachloride	56-23-5	DUP	0	0	RPD	0	(Max-)	ND
Chlorobenzene	108-90-7	DUP	2.1207	2.0831	RPD	1.79	(Max-)	
Chlorodibromomethane	124-48-1	DUP	0	0	RPD	0	(Max-)	ND
Chloroethane	75-00-3	DUP	0	0	RPD	0	(Max-)	ND
Chloroform	67-66-3	DUP	0	0	RPD	0	(Max-)	ND
Chloromethane	74-87-3	DUP	0	0.3443	RPD	200	(Max-)	ND
cis-1,2-Dichloroethene	156-59-2	DUP	0	0.3912	RPD	200	(Max-)	ND
cis-1,3-Dichloropropene	10061-01-5	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
Cyclohexane	110-82-7	DUP	0	0	RPD	0	(Max-)	ND
Dichlorodifluoromethane	75-71-8	DUP	0	0	RPD	0	(Max-)	ND
Ethylbenzene	100-41-4	DUP	1.2851	1.1576	RPD	10.40	(Max-)	
Freon 113	76-13-1	DUP	0	0	RPD	0	(Max-)	ND
Isopropylbenzene	98-82-8	DUP	0.6085	0.6048	RPD	0.61	(Max-)	J
Methyl acetate	79-20-9	DUP	0	0	RPD	0	(Max-)	ND
Methyl cyclohexane	108-87-2	DUP	0	0	RPD	0	(Max-)	ND
Methyl t-Butyl Ether	1634-04-4	DUP	0	0	RPD	0	(Max-)	ND
Methylene Chloride	75-09-2	DUP	0	0	RPD	0	(Max-)	ND
mp-Xylene	108383/106423	DUP	3.1341	2.9652	RPD	5.54	(Max-)	
o-Xylene	95-47-6	DUP	0.6735	0.6221	RPD	7.93	(Max-)	J
Styrene	100-42-5	DUP	0	0	RPD	0	(Max-)	ND
Tetrachloroethene	127-18-4	DUP	0	0	RPD	0	(Max-)	ND
Toluene	108-88-3	DUP	0.4621	0.4226	RPD	8.92	(Max-)	J
Total Xylenes	1330-20-7	DUP	3.8075	3.5873	RPD	5.96	(Max-)	
trans-1,2-Dichloroethene	156-60-5	DUP	0	0	RPD	0	(Max-)	ND
trans-1,3-Dichloropropene	10061-02-6	DUP	0	0	RPD	0	(Max-)	ND
Trichloroethene	79-01-6	DUP	0	0	RPD	0	(Max-)	ND
Trichlorofluoromethane	75-69-4	DUP	0	0	RPD	0	(Max-)	ND
Vinyl Chloride	75-01-4	DUP	0	0	RPD	0	(Max-)	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	DUP	30.7	30	102	62 - 133	
4-Bromofluorobenzene	460-00-4	DUP	31.4	30	105	79 - 114	
Dibromofluoromethane	1868-53-7	DUP	29.8	30	99.5	78 - 116	
Toluene-d8	2037-26-5	DUP	30.9	30	103	76 - 127	

Matrix Spike 3910116 (MS) 3388070042 (non-Project Sample) For QC Batch 1340485

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	24	0	20	120	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	MS	25.2	0	20	126	74 - 135		
1,1,2-Trichloroethane	79-00-5	MS	23.6	0	20	118	82 - 126		
1,1-Dichloroethane	75-34-3	MS	22.5	0	20	113	78 - 124		
1,1-Dichloroethene	75-35-4	MS	22.9	0	20	114	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	MS	21.7	0	20	109	61 - 126		
1,2,3-Trichloropropane	96-18-4	MS	24.6	0	20	123	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	MS	23.8	0	20	119	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	MS	22	0	20	110	76 - 125		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dibromo-3-chloropropane	96-12-8	MS	23.2	0	20	116	59 - 133		
1,2-Dibromoethane	106-93-4	MS	23.6	0	20	118	80 - 124		
1,2-Dichlorobenzene	95-50-1	MS	21.4	0	20	107	82 - 118		
1,2-Dichloroethane	107-06-2	MS	21.1	0	20	105	70 - 133		
1,2-Dichloropropane	78-87-5	MS	21.8	0	20	109	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	MS	22.8	0	20	114	76 - 125		
1,3-Dichlorobenzene	541-73-1	MS	21.2	0	20	106	81 - 118		
1,4-Dichlorobenzene	106-46-7	MS	21.2	0	20	106	81 - 116		
2-Butanone	78-93-3	MS	120	0	100	120	50 - 152		
2-Hexanone	591-78-6	MS	118	0	100	118	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	120	0	100	120	71 - 146		
Acetone	67-64-1	MS	114	0	100	114	40 - 151		
Benzene	71-43-2	MS	22.6	0	20	113	80 - 124		
Bromochloromethane	74-97-5	MS	23.3	0	20	117	73 - 117		
Bromodichloromethane	75-27-4	MS	23.1	0	20	115	79 - 126		
Bromoform	75-25-2	MS	19.8	0	20	99.1	70 - 123		
Bromomethane	74-83-9	MS	12.9	0	20	64.7	45 - 148		
Carbon Disulfide	75-15-0	MS	22.2	0	20	111	57 - 131		
Carbon Tetrachloride	56-23-5	MS	20.6	0	20	103	62 - 132		
Chlorobenzene	108-90-7	MS	22.5	0	20	112	85 - 117		
Chlorodibromomethane	124-48-1	MS	19.7	0	20	98.3	77 - 122		
Chloroethane	75-00-3	MS	18.1	0	20	90.5	51 - 142		
Chloroform	67-66-3	MS	21.8	0	20	109	78 - 122		
Chloromethane	74-87-3	MS	18.3	0	20	91.4	38 - 156		
cis-1,2-Dichloroethene	156-59-2	MS	22.5	0	20	113	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	MS	22.4	0	20	112	81 - 121		
Cyclohexane	110-82-7	MS	22.2	0	20	111	66 - 130		
Dichlorodifluoromethane	75-71-8	MS	15.6	0	20	78	17 - 166		
Ethylbenzene	100-41-4	MS	22.9	0	20	115	80 - 124		
Freon 113	76-13-1	MS	23.1	0	20	116	50 - 130		
Isopropylbenzene	98-82-8	MS	24.7	0	20	124	73 - 129		
Methyl acetate	79-20-9	MS	20.6	0	20	103	70 - 130		
Methyl cyclohexane	108-87-2	MS	21.5	0	20	107	70 - 130		
Methyl t-Butyl Ether	1634-04-4	MS	23	0	20	115	69 - 115		
Methylene Chloride	75-09-2	MS	22.4	0	20	112	76 - 121		
mp-Xylene	108383/106423	MS	45.6	0	40	114	79 - 125		
o-Xylene	95-47-6	MS	22.5	0	20	112	79 - 124		
Styrene	100-42-5	MS	23.8	0	20	119	79 - 123		
Tetrachloroethene	127-18-4	MS	19.6	0	20	97.8	72 - 124		
Toluene	108-88-3	MS	22.6	0.26	20	112	80 - 125		
Total Xylenes	1330-20-7	MS	68.1	0	60	114	79 - 125		
trans-1,2-Dichloroethene	156-60-5	MS	22.3	0	20	112	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	MS	20.7	0	20	104	78 - 126		
Trichloroethene	79-01-6	MS	21.8	0	20	109	77 - 124		
Trichlorofluoromethane	75-69-4	MS	19.2	0	20	95.9	38 - 123		
Vinyl Chloride	75-01-4	MS	20.4	0	20	102	27 - 138		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	30.8	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	29.9	30	99.7	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30	30	100	78 - 116	
Toluene-d8	2037-26-5	MS	29.4	30	98	76 - 127	

Method Blank 3910113 (MB) Created on 11/25/2024 15:42 For QC Batch 1340485

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	1000000	ug/L	1.0	
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.2	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	31	30	103	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.1	30	96.9	78 - 116	
Toluene-d8	2037-26-5	BLK	29.7	30	99	76 - 127	

Lab Control Standard 3910114 (LCS) Created on 11/25/2024 15:42 For QC Batch 1340485

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	22		20	110	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.5		20	112	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.4		20	107	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.1		20	101	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.3		20	106	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	20.7		20	103	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22.4		20	112	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.1		20	115	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	21.3		20	106	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.7		20	103	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	22.2		20	111	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.5		20	103	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.7		20	98.5	70 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dichloropropane	78-87-5	LCS	19.9		20	99.3	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.7		20	108	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.2		20	101	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.3		20	101	81 - 116		
2-Butanone	78-93-3	LCS	119		100	119	50 - 152		
2-Hexanone	591-78-6	LCS	108		100	108	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	98.7		100	98.7	71 - 146		
Acetone	67-64-1	LCS	126		100	126	40 - 151		
Benzene	71-43-2	LCS	19.9		20	99.6	80 - 124		
Bromochloromethane	74-97-5	LCS	21.5		20	107	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.3		20	107	79 - 126		
Bromoform	75-25-2	LCS	18.9		20	94.4	70 - 123		
Bromomethane	74-83-9	LCS	13.1		20	65.3	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.1		20	105	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	20.4		20	102	62 - 132		
Chlorobenzene	108-90-7	LCS	20.9		20	105	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18.9		20	94.3	77 - 122		
Chloroethane	75-00-3	LCS	18		20	90	51 - 142		
Chloroform	67-66-3	LCS	20		20	100	78 - 122		
Chloromethane	74-87-3	LCS	17.2		20	86	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.1		20	100	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	21.5		20	107	81 - 121		
Cyclohexane	110-82-7	LCS	22.9		20	114	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	17.9		20	89.4	17 - 166		
Ethylbenzene	100-41-4	LCS	21.5		20	107	80 - 124		
Freon 113	76-13-1	LCS	24.2		20	121	50 - 130		
Isopropylbenzene	98-82-8	LCS	23.9		20	120	73 - 129		
Methyl acetate	79-20-9	LCS	21.2		20	106	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22.7		20	113	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	21.3		20	107	69 - 115		
Methylene Chloride	75-09-2	LCS	20.2		20	101	76 - 121		
mp-Xylene	108383/106423	LCS	42.3		40	106	79 - 125		
o-Xylene	95-47-6	LCS	21		20	105	79 - 124		
Styrene	100-42-5	LCS	22.6		20	113	79 - 123		
Tetrachloroethene	127-18-4	LCS	20.9		20	105	72 - 124		
Toluene	108-88-3	LCS	20.7		20	104	80 - 125		
Total Xylenes	1330-20-7	LCS	63.3		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.3		20	102	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.7		20	98.5	78 - 126		
Trichloroethene	79-01-6	LCS	20.5		20	102	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21.5		20	107	38 - 123		
Vinyl Chloride	75-01-4	LCS	20.9		20	104	27 - 138		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	31	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	31.2	30	104	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30.9	30	103	78 - 116	
Toluene-d8	2037-26-5	LCS	30.3	30	101	76 - 127	

QC Batch

QC Batch	1342493	Prep Method	SW846 5035A
Date	11/23/2024 08:46	Analysis Method	SW846 8260D
Tech.	JTH		

Associated Samples

3388148001 3388148002

Matrix Spike 3910550 (MS) 3389139001 (non-Project Sample) For QC Batch 1342493

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3910551 (MSD) 3389139001 (non-Project Sample) For QC Batch 1342493

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	7120	0	6850	104	69 - 136		
1,1,1-Trichloroethane	71-55-6	MSD	7580	0	6850	111	69 - 136	RPD 6.33 (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	5890	0	6850	86	69 - 125		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	6110	0	6850	89.3	69 - 125	RPD 3.78 (Max-40)	
1,1,2-Trichloroethane	79-00-5	MS	7080	0	6850	103	70 - 128		
1,1,2-Trichloroethane	79-00-5	MSD	7360	0	6850	107	70 - 128	RPD 3.90 (Max-40)	
1,1-Dichloroethane	75-34-3	MS	7890	0	6850	115	68 - 137		
1,1-Dichloroethane	75-34-3	MSD	8340	0	6850	122	68 - 137	RPD 5.56 (Max-40)	
1,1-Dichloroethene	75-35-4	MS	7980	0	6850	117	62 - 135		
1,1-Dichloroethene	75-35-4	MSD	8550	0	6850	125	62 - 135	RPD 6.86 (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	MS	7410	0	6850	108	41 - 143		
1,2,3-Trichlorobenzene	87-61-6	MSD	7820	0	6850	114	41 - 143	RPD 5.38 (Max-40)	
1,2,3-Trichloropropane	96-18-4	MS	6910	0	6850	101	63 - 133		
1,2,3-Trichloropropane	96-18-4	MSD	6420	0	6850	93.8	63 - 133	RPD 7.26 (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	MS	6810	0	6850	99.4	61 - 134		
1,2,4-Trichlorobenzene	120-82-1	MSD	7230	0	6850	106	61 - 134	RPD 6.09 (Max-40)	
1,2,4-Trimethylbenzene	95-63-6	MS	7920	0	6850	116	75 - 134		
1,2,4-Trimethylbenzene	95-63-6	MSD	7360	0	6850	108	75 - 134	RPD 7.31 (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	6190	0	6850	90.3	37 - 131		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	6660	0	6850	97.2	37 - 131	RPD 7.31 (Max-40)	
1,2-Dibromoethane	106-93-4	MS	7020	0	6850	102	69 - 130		
1,2-Dibromoethane	106-93-4	MSD	7330	0	6850	107	69 - 130	RPD 4.35 (Max-40)	
1,2-Dichlorobenzene	95-50-1	MS	6510	0	6850	95.1	73 - 127		
1,2-Dichlorobenzene	95-50-1	MSD	7770	0	6850	113	73 - 127	RPD 17.60 (Max-40)	
1,2-Dichloroethane	107-06-2	MS	7370	0	6850	108	62 - 139		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dichloroethane	107-06-2	MSD	7900	0	6850	115	62 - 139	RPD 6.92 (Max-40)	
1,2-Dichloroethene, Total	540-59-0	MS	15900	0	13700	116	68 - 137		
1,2-Dichloroethene, Total	540-59-0	MSD	17100	0	13700	125	68 - 137	RPD 7.53 (Max-)	
1,2-Dichloropropane	78-87-5	MS	7330	0	6850	107	77 - 133		
1,2-Dichloropropane	78-87-5	MSD	7830	0	6850	114	77 - 133	RPD 6.59 (Max-40)	
1,3,5-Trimethylbenzene	108-67-8	MS	8220	90	6850	119	74 - 137		
1,3,5-Trimethylbenzene	108-67-8	MSD	7570	90	6850	109	74 - 137	RPD 8.21 (Max-40)	
1,3-Dichlorobenzene	541-73-1	MS	7450	0	6850	109	73 - 130		
1,3-Dichlorobenzene	541-73-1	MSD	7560	0	6850	110	73 - 130	RPD 1.43 (Max-40)	
1,4-Dichlorobenzene	106-46-7	MS	7140	0	6850	104	74 - 127		
1,4-Dichlorobenzene	106-46-7	MSD	7600	0	6850	111	74 - 127	RPD 6.30 (Max-40)	
2-Butanone	78-93-3	MS	43500	0	34200	127	51 - 151		
2-Butanone	78-93-3	MSD	45500	0	34200	133	51 - 151	RPD 4.52 (Max-40)	
2-Hexanone	591-78-6	MS	35900	1950	34200	99.1	66 - 133		
2-Hexanone	591-78-6	MSD	37700	1950	34200	104	66 - 133	RPD 4.92 (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	40200	0	34200	117	70 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	42700	0	34200	125	70 - 130	RPD 5.95 (Max-40)	
Acetone	67-64-1	MS	36700	5060	34200	92.3	42 - 154		
Acetone	67-64-1	MSD	34800	5060	34200	86.9	42 - 154	RPD 5.26 (Max-40)	
Benzene	71-43-2	MS	7870	0	6850	115	77 - 134		
Benzene	71-43-2	MSD	8300	0	6850	121	77 - 134	RPD 5.23 (Max-40)	
Bromochloromethane	74-97-5	MS	7820	0	6850	114	70 - 124		
Bromochloromethane	74-97-5	MSD	8120	0	6850	119	70 - 124	RPD 3.70 (Max-40)	
Bromodichloromethane	75-27-4	MS	7100	0	6850	104	73 - 133		
Bromodichloromethane	75-27-4	MSD	7600	0	6850	111	73 - 133	RPD 6.86 (Max-40)	
Bromoform	75-25-2	MS	6060	0	6850	88.4	62 - 118		
Bromoform	75-25-2	MSD	6380	0	6850	93.1	62 - 118	RPD 5.19 (Max-40)	
Bromomethane	74-83-9	MS	5350	202	6850	75.2	41 - 143		
Bromomethane	74-83-9	MSD	5760	202	6850	81.2	41 - 143	RPD 7.40 (Max-40)	
Carbon Disulfide	75-15-0	MS	5780	0	6850	84.5	48 - 145		
Carbon Disulfide	75-15-0	MSD	6490	0	6850	94.8	48 - 145	RPD 11.50 (Max-40)	
Carbon Tetrachloride	56-23-5	MS	6290	0	6850	91.8	64 - 139		
Carbon Tetrachloride	56-23-5	MSD	6540	0	6850	95.5	64 - 139	RPD 3.94 (Max-40)	
Chlorobenzene	108-90-7	MS	7450	0	6850	109	76 - 130		
Chlorobenzene	108-90-7	MSD	7880	0	6850	115	76 - 130	RPD 5.56 (Max-40)	
Chlorodibromomethane	124-48-1	MS	6460	0	6850	94.3	69 - 122		
Chlorodibromomethane	124-48-1	MSD	6800	0	6850	99.3	69 - 122	RPD 5.17 (Max-40)	
Chloroethane	75-00-3	MS	3460	0	6850	50.6	14 - 152		
Chloroethane	75-00-3	MSD	4220	0	6850	61.5	14 - 152	RPD 19.60 (Max-40)	
Chloroform	67-66-3	MS	8010	0	6850	117	75 - 127		
Chloroform	67-66-3	MSD	8460	0	6850	123	75 - 127	RPD 5.50 (Max-40)	
Chloromethane	74-87-3	MS	6870	0	6850	100	31 - 167		
Chloromethane	74-87-3	MSD	7390	0	6850	108	31 - 167	RPD 7.33 (Max-40)	
cis-1,2-Dichloroethene	156-59-2	MS	7900	0	6850	115	68 - 137		
cis-1,2-Dichloroethene	156-59-2	MSD	8400	0	6850	123	68 - 137	RPD 6.13 (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	MS	6010	0	6850	87.8	70 - 129		
cis-1,3-Dichloropropene	10061-01-5	MSD	6340	0	6850	92.6	70 - 129	RPD 5.36 (Max-40)	
Cyclohexane	110-82-7	MS	8730	0	6850	127	63 - 151		
Cyclohexane	110-82-7	MSD	9330	0	6850	136	63 - 151	RPD 6.59 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	MS	6400	0	6850	93.4	10 - 180		
Dichlorodifluoromethane	75-71-8	MSD	6200	0	6850	90.5	10 - 180	RPD 3.18 (Max-40)	
Ethylbenzene	100-41-4	MS	8140	387	6850	113	76 - 136		
Ethylbenzene	100-41-4	MSD	8790	387	6850	123	76 - 136	RPD 7.73 (Max-40)	
Freon 113	76-13-1	MS	6950	0	6850	101	42 - 109		
Freon 113	76-13-1	MSD	7570	0	6850	110*	42 - 109	RPD 8.47 (Max-40)	
Isopropylbenzene	98-82-8	MS	8130	0	6850	119	72 - 137		
Isopropylbenzene	98-82-8	MSD	8510	0	6850	124	72 - 137	RPD 4.66 (Max-40)	
Methyl acetate	79-20-9	MS	9040	1500	6850	110	70 - 130		
Methyl acetate	79-20-9	MSD	9460	1500	6850	116	70 - 130	RPD 4.54 (Max-40)	
Methyl cyclohexane	108-87-2	MS	9340	0	6850	136*	70 - 130		
Methyl cyclohexane	108-87-2	MSD	10100	0	6850	148*	70 - 130	RPD 8.04 (Max-40)	
Methyl t-Butyl Ether	1634-04-4	MS	6750	0	6850	98.6	65 - 120		
Methyl t-Butyl Ether	1634-04-4	MSD	7160	0	6850	104	65 - 120	RPD 5.84 (Max-40)	
Methylene Chloride	75-09-2	MS	7600	0	6850	111	73 - 129		
Methylene Chloride	75-09-2	MSD	7800	0	6850	114	73 - 129	RPD 2.50 (Max-40)	
mp-Xylene	108383/106423	MS	16400	558	13700	115	75 - 137		
mp-Xylene	108383/106423	MSD	17400	558	13700	123	75 - 137	RPD 6.36 (Max-40)	
o-Xylene	95-47-6	MS	8360	358	6850	117	74 - 135		
o-Xylene	95-47-6	MSD	8930	358	6850	125	74 - 135	RPD 6.54 (Max-40)	
Styrene	100-42-5	MS	7750	0	6850	113	72 - 134		
Styrene	100-42-5	MSD	8060	0	6850	118	72 - 134	RPD 3.91 (Max-40)	
Tetrachloroethene	127-18-4	MS	8190	0	6850	120	73 - 134		
Tetrachloroethene	127-18-4	MSD	8630	0	6850	126	73 - 134	RPD 5.23 (Max-40)	
Toluene	108-88-3	MS	8030	751	6850	106	73 - 134		
Toluene	108-88-3	MSD	8450	751	6850	112	73 - 134	RPD 5.12 (Max-40)	
Total Xylenes	1330-20-7	MS	24700	916	20500	116	75 - 136		
Total Xylenes	1330-20-7	MSD	26400	916	20500	124	75 - 136	RPD 6.42 (Max-40)	
trans-1,2-Dichloroethene	156-60-5	MS	7980	0	6850	116	69 - 130		
trans-1,2-Dichloroethene	156-60-5	MSD	8720	0	6850	127	69 - 130	RPD 8.90 (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	MS	6990	0	6850	102	67 - 129		
trans-1,3-Dichloropropene	10061-02-6	MSD	7260	0	6850	106	67 - 129	RPD 3.87 (Max-40)	
Trichloroethene	79-01-6	MS	7610	0	6850	111	77 - 134		
Trichloroethene	79-01-6	MSD	8120	0	6850	118	77 - 134	RPD 6.38 (Max-40)	
Trichlorofluoromethane	75-69-4	MS	3860	0	6850	56.3	27 - 121		
Trichlorofluoromethane	75-69-4	MSD	4330	0	6850	63.3	27 - 121	RPD 11.50 (Max-40)	
Vinyl Chloride	75-01-4	MS	7550	0	6850	110	5 - 200		
Vinyl Chloride	75-01-4	MSD	7060	0	6850	103	5 - 200	RPD 6.78 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	12000	10300	117	71 - 146	
1,2-Dichloroethane-d4	17060-07-0	MSD	11900	10300	116	71 - 146	
4-Bromofluorobenzene	460-00-4	MS	11000	10300	107	46 - 138	
4-Bromofluorobenzene	460-00-4	MSD	10500	10300	102	46 - 138	
Dibromofluoromethane	1868-53-7	MS	11900	10300	116	42 - 143	
Dibromofluoromethane	1868-53-7	MSD	11700	10300	114	42 - 143	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
Toluene-d8	2037-26-5	MS	10800	10300	105	54 - 141	
Toluene-d8	2037-26-5	MSD	10600	10300	103	54 - 141	

Method Blank 3910323 (MB) Created on 11/26/2024 08:41 For QC Batch 1342493

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	50.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	50.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	50.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	100	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	100	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	43.5J	ug/kg	100	J
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	50.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	350	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	50.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	100	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	50.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	11.2J	ug/kg	50.0	J
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	50.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	50.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	500	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	250	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	250	ND
Acetone	67-64-1	BLK	ND	ug/kg	500	ND
Benzene	71-43-2	BLK	ND	ug/kg	50.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	50.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	50.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	50.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	50.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	50.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	50.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	50.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	50.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	50.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	50.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	50.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	50.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	50.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	50.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	50.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Freon 113	76-13-1	BLK	ND	ug/kg	50.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	50.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	100	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	50.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	50.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	50.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/kg	100	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	50.0	ND
Styrene	100-42-5	BLK	ND	ug/kg	50.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	50.0	ND
Toluene	108-88-3	BLK	ND	ug/kg	50.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	150	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	50.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	50.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	50.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	50.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	1500	1500	100	71 - 146	
4-Bromofluorobenzene	460-00-4	BLK	1420	1500	94.4	46 - 138	
Dibromofluoromethane	1868-53-7	BLK	1370	1500	91.1	42 - 143	
Toluene-d8	2037-26-5	BLK	1460	1500	97.6	54 - 141	

Lab Control Standard 3910324 (LCS) Created on 11/26/2024 08:41 For QC Batch 1342493

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	777		1000	77.7	69 - 136		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	960		1000	96	69 - 125		
1,1,2-Trichloroethane	79-00-5	LCS	941		1000	94.1	70 - 128		
1,1-Dichloroethane	75-34-3	LCS	903		1000	90.3	68 - 137		
1,1-Dichloroethene	75-35-4	LCS	907		1000	90.7	62 - 135		
1,2,3-Trichlorobenzene	87-61-6	LCS	1160		1000	116	41 - 143		
1,2,3-Trichloropropane	96-18-4	LCS	982		1000	98.2	63 - 133		
1,2,4-Trichlorobenzene	120-82-1	LCS	1020		1000	102	61 - 134		
1,2,4-Trimethylbenzene	95-63-6	LCS	900		1000	90	75 - 134		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	1120		1000	112	37 - 131		
1,2-Dibromoethane	106-93-4	LCS	980		1000	98	69 - 130		
1,2-Dichlorobenzene	95-50-1	LCS	918		1000	91.8	73 - 127		
1,2-Dichloroethane	107-06-2	LCS	878		1000	87.8	62 - 139		
1,2-Dichloroethene, Total	540-59-0	LCS	1850		2000	92.4	68 - 137		
1,2-Dichloropropane	78-87-5	LCS	893		1000	89.3	77 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,3,5-Trimethylbenzene	108-67-8	LCS	922		1000	92.2	74 - 137		
1,3-Dichlorobenzene	541-73-1	LCS	899		1000	89.9	73 - 130		
1,4-Dichlorobenzene	106-46-7	LCS	899		1000	89.9	74 - 127		
2-Butanone	78-93-3	LCS	6480		5000	130	51 - 151		
2-Hexanone	591-78-6	LCS	5640		5000	113	66 - 133		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	5850		5000	117	70 - 130		
Acetone	67-64-1	LCS	7260		5000	145	42 - 154		
Benzene	71-43-2	LCS	907		1000	90.7	77 - 134		
Bromochloromethane	74-97-5	LCS	1010		1000	101	70 - 124		
Bromodichloromethane	75-27-4	LCS	898		1000	89.8	73 - 133		
Bromoform	75-25-2	LCS	1000		1000	100	62 - 118		
Bromomethane	74-83-9	LCS	767		1000	76.7	41 - 143		
Carbon Disulfide	75-15-0	LCS	803		1000	80.3	48 - 145		
Carbon Tetrachloride	56-23-5	LCS	697		1000	69.7	64 - 139		
Chlorobenzene	108-90-7	LCS	939		1000	93.9	76 - 130		
Chlorodibromomethane	124-48-1	LCS	899		1000	89.9	69 - 122		
Chloroethane	75-00-3	LCS	487		1000	48.7	14 - 152		
Chloroform	67-66-3	LCS	920		1000	92	75 - 127		
Chloromethane	74-87-3	LCS	789		1000	78.9	31 - 167		
cis-1,2-Dichloroethene	156-59-2	LCS	937		1000	93.7	68 - 137		
cis-1,3-Dichloropropene	10061-01-5	LCS	784		1000	78.4	70 - 129		
Cyclohexane	110-82-7	LCS	956		1000	95.6	63 - 151		
Dichlorodifluoromethane	75-71-8	LCS	687		1000	68.7	10 - 180		
Ethylbenzene	100-41-4	LCS	965		1000	96.5	76 - 136		
Freon 113	76-13-1	LCS	814		1000	81.4	42 - 109		
Isopropylbenzene	98-82-8	LCS	999		1000	99.9	72 - 137		
Methyl acetate	79-20-9	LCS	1290		1000	129	70 - 130		
Methyl cyclohexane	108-87-2	LCS	1070		1000	107	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	882		1000	88.2	65 - 120		
Methylene Chloride	75-09-2	LCS	935		1000	93.5	73 - 129		
mp-Xylene	108383/106423	LCS	1930		2000	96.7	75 - 137		
o-Xylene	95-47-6	LCS	998		1000	99.8	74 - 135		
Styrene	100-42-5	LCS	1020		1000	102	72 - 134		
Tetrachloroethene	127-18-4	LCS	848		1000	84.8	73 - 134		
Toluene	108-88-3	LCS	876		1000	87.6	73 - 134		
Total Xylenes	1330-20-7	LCS	2930		3000	97.7	75 - 136		
trans-1,2-Dichloroethene	156-60-5	LCS	911		1000	91.1	69 - 130		
trans-1,3-Dichloropropene	10061-02-6	LCS	859		1000	85.9	67 - 129		
Trichloroethene	79-01-6	LCS	864		1000	86.4	77 - 134		
Trichlorofluoromethane	75-69-4	LCS	793		1000	79.3	27 - 121		
Vinyl Chloride	75-01-4	LCS	924		1000	92.4	5 - 200		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	1600	1500	107	71 - 146	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
4-Bromofluorobenzene	460-00-4	LCS	1660	1500	111	46 - 138	
Dibromofluoromethane	1868-53-7	LCS	1690	1500	112	42 - 143	
Toluene-d8	2037-26-5	LCS	1580	1500	105	54 - 141	

QC Batch

QC Batch	1346090	Prep Method	SW846 5035A
Date	11/18/2024 11:15	Analysis Method	SW846 8260D
Tech.	BST		

Associated Samples

3388148003 3388148004 3388148005 3388148006 3388148007

Matrix Spike 3911449 (MS) 3388338003 (non-Project Sample) For QC Batch 1346090

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911450 (MSD) 3388338003 (non-Project Sample) For QC Batch 1346090

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	872	0	912	95.5	69 - 136		
1,1,1-Trichloroethane	71-55-6	MSD	886	0	912	97.1	69 - 136	RPD 1.61 (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	828	0	912	90.8	69 - 125		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	846	0	912	92.7	69 - 125	RPD 2.08 (Max-40)	
1,1,2-Trichloroethane	79-00-5	MS	947	0	912	104	70 - 128		
1,1,2-Trichloroethane	79-00-5	MSD	961	0	912	105	70 - 128	RPD 1.47 (Max-40)	
1,1-Dichloroethane	75-34-3	MS	1010	0	912	111	68 - 137		
1,1-Dichloroethane	75-34-3	MSD	1020	0	912	111	68 - 137	RPD 0.75 (Max-40)	
1,1-Dichloroethene	75-35-4	MS	1030	0	912	112	62 - 135		
1,1-Dichloroethene	75-35-4	MSD	1010	0	912	111	62 - 135	RPD 1.56 (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	MS	1020	0	912	112	41 - 143		
1,2,3-Trichlorobenzene	87-61-6	MSD	1120	0	912	123	41 - 143	RPD 9.04 (Max-40)	
1,2,3-Trichloropropane	96-18-4	MS	827	0	912	90.7	63 - 133		
1,2,3-Trichloropropane	96-18-4	MSD	844	0	912	92.5	63 - 133	RPD 2.01 (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	MS	961	0	912	105	61 - 134		
1,2,4-Trichlorobenzene	120-82-1	MSD	1030	0	912	113	61 - 134	RPD 7.35 (Max-40)	
1,2,4-Trimethylbenzene	95-63-6	MS	1020	0	912	112	75 - 134		
1,2,4-Trimethylbenzene	95-63-6	MSD	1060	0	912	116	75 - 134	RPD 3.88 (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	815	0	912	89.3	37 - 131		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	825	0	912	90.5	37 - 131	RPD 1.30 (Max-40)	
1,2-Dibromoethane	106-93-4	MS	946	0	912	104	69 - 130		
1,2-Dibromoethane	106-93-4	MSD	953	0	912	104	69 - 130	RPD 0.76 (Max-40)	
1,2-Dichlorobenzene	95-50-1	MS	935	0	912	102	73 - 127		
1,2-Dichlorobenzene	95-50-1	MSD	989	0	912	108	73 - 127	RPD 5.63 (Max-40)	
1,2-Dichloroethane	107-06-2	MS	892	0	912	97.7	62 - 139		
1,2-Dichloroethane	107-06-2	MSD	900	0	912	98.7	62 - 139	RPD 0.96 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dichloroethene, Total	540-59-0	MS	2040	0	1820	112	68 - 137		
1,2-Dichloroethene, Total	540-59-0	MSD	2040	0	1820	112	68 - 137	RPD 0.02 (Max-)	
1,2-Dichloropropane	78-87-5	MS	945	0	912	104	77 - 133		
1,2-Dichloropropane	78-87-5	MSD	973	0	912	107	77 - 133	RPD 2.93 (Max-40)	
1,3,5-Trimethylbenzene	108-67-8	MS	1050	0	912	115	74 - 137		
1,3,5-Trimethylbenzene	108-67-8	MSD	1090	0	912	120	74 - 137	RPD 4.07 (Max-40)	
1,3-Dichlorobenzene	541-73-1	MS	941	0	912	103	73 - 130		
1,3-Dichlorobenzene	541-73-1	MSD	976	0	912	107	73 - 130	RPD 3.58 (Max-40)	
1,4-Dichlorobenzene	106-46-7	MS	941	0	912	103	74 - 127		
1,4-Dichlorobenzene	106-46-7	MSD	982	0	912	108	74 - 127	RPD 4.30 (Max-40)	
2-Butanone	78-93-3	MS	5280	0	4560	116	51 - 151		
2-Butanone	78-93-3	MSD	5240	0	4560	115	51 - 151	RPD 0.77 (Max-40)	
2-Hexanone	591-78-6	MS	4120	0	4560	90.3	66 - 133		
2-Hexanone	591-78-6	MSD	4240	0	4560	93	66 - 133	RPD 2.98 (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	4650	0	4560	102	70 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	4690	0	4560	103	70 - 130	RPD 0.76 (Max-40)	
Acetone	67-64-1	MS	3900	0	4560	85.6	42 - 154		
Acetone	67-64-1	MSD	3950	0	4560	86.5	42 - 154	RPD 1.12 (Max-40)	
Benzene	71-43-2	MS	1070	0	912	118	77 - 134		
Benzene	71-43-2	MSD	1060	0	912	117	77 - 134	RPD 0.98 (Max-40)	
Bromochloromethane	74-97-5	MS	1000	0	912	110	70 - 124		
Bromochloromethane	74-97-5	MSD	1020	0	912	112	70 - 124	RPD 1.89 (Max-40)	
Bromodichloromethane	75-27-4	MS	859	0	912	94.2	73 - 133		
Bromodichloromethane	75-27-4	MSD	883	0	912	96.8	73 - 133	RPD 2.75 (Max-40)	
Bromoform	75-25-2	MS	777	0	912	85.2	62 - 118		
Bromoform	75-25-2	MSD	834	0	912	91.4	62 - 118	RPD 7.04 (Max-40)	
Bromomethane	74-83-9	MS	725	42.40	912	74.8	41 - 143		
Bromomethane	74-83-9	MSD	718	42.40	912	74.1	41 - 143	RPD 0.97 (Max-40)	
Carbon Disulfide	75-15-0	MS	752	17.50	912	80.4	48 - 145		
Carbon Disulfide	75-15-0	MSD	808	17.50	912	86.7	48 - 145	RPD 7.28 (Max-40)	
Carbon Tetrachloride	56-23-5	MS	681	0	912	74.6	64 - 139		
Carbon Tetrachloride	56-23-5	MSD	695	0	912	76.2	64 - 139	RPD 2.08 (Max-40)	
Chlorobenzene	108-90-7	MS	1020	0	912	111	76 - 130		
Chlorobenzene	108-90-7	MSD	1030	0	912	113	76 - 130	RPD 1.70 (Max-40)	
Chlorodibromomethane	124-48-1	MS	782	0	912	85.7	69 - 122		
Chlorodibromomethane	124-48-1	MSD	820	0	912	89.8	69 - 122	RPD 4.69 (Max-40)	
Chloroethane	75-00-3	MS	360	0	912	39.5	14 - 152		
Chloroethane	75-00-3	MSD	341	0	912	37.3	14 - 152	RPD 5.56 (Max-40)	
Chloroform	67-66-3	MS	1010	0	912	111	75 - 127		
Chloroform	67-66-3	MSD	1020	0	912	112	75 - 127	RPD 1.15 (Max-40)	
Chloromethane	74-87-3	MS	1030	9.10	912	112	31 - 167		
Chloromethane	74-87-3	MSD	1030	9.10	912	112	31 - 167	RPD 0.17 (Max-40)	
cis-1,2-Dichloroethene	156-59-2	MS	1010	0	912	111	68 - 137		
cis-1,2-Dichloroethene	156-59-2	MSD	998	0	912	109	68 - 137	RPD 1.46 (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	MS	761	0	912	83.4	70 - 129		
cis-1,3-Dichloropropene	10061-01-5	MSD	780	0	912	85.5	70 - 129	RPD 2.44 (Max-40)	
Cyclohexane	110-82-7	MS	1150	0	912	126	63 - 151		
Cyclohexane	110-82-7	MSD	1160	0	912	127	63 - 151	RPD 0.93 (Max-40)	
Dichlorodifluoromethane	75-71-8	MS	940	0	912	103	10 - 180		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	MSD	921	0	912	101	10 - 180	RPD 1.98 (Max-40)	
Ethylbenzene	100-41-4	MS	1090	0	912	119	76 - 136		
Ethylbenzene	100-41-4	MSD	1100	0	912	121	76 - 136	RPD 1.38 (Max-40)	
Freon 113	76-13-1	MS	940	0	912	103	42 - 109		
Freon 113	76-13-1	MSD	957	0	912	105	42 - 109	RPD 1.70 (Max-40)	
Isopropylbenzene	98-82-8	MS	1150	0	912	126	72 - 137		
Isopropylbenzene	98-82-8	MSD	1200	0	912	132	72 - 137	RPD 4.59 (Max-40)	
Methyl acetate	79-20-9	MS	3070	2100	912	106	70 - 130		
Methyl acetate	79-20-9	MSD	2970	2100	912	94.8	70 - 130	RPD 3.31 (Max-40)	
Methyl cyclohexane	108-87-2	MS	1280	36.60	912	136*	70 - 130		
Methyl cyclohexane	108-87-2	MSD	1310	36.60	912	139*	70 - 130	RPD 2.32 (Max-40)	
Methyl t-Butyl Ether	1634-04-4	MS	853	0	912	93.5	65 - 120		
Methyl t-Butyl Ether	1634-04-4	MSD	848	0	912	92.9	65 - 120	RPD 0.63 (Max-40)	
Methylene Chloride	75-09-2	MS	984	10.20	912	107	73 - 129		
Methylene Chloride	75-09-2	MSD	1010	10.20	912	109	73 - 129	RPD 2.43 (Max-40)	
mp-Xylene	108383/106423	MS	2290	17.60	1820	125	75 - 137		
mp-Xylene	108383/106423	MSD	2280	17.60	1820	124	75 - 137	RPD 0.47 (Max-40)	
o-Xylene	95-47-6	MS	1130	0	912	124	74 - 135		
o-Xylene	95-47-6	MSD	1140	0	912	125	74 - 135	RPD 0.56 (Max-40)	
Styrene	100-42-5	MS	1110	0	912	122	72 - 134		
Styrene	100-42-5	MSD	1140	0	912	125	72 - 134	RPD 2.47 (Max-40)	
Tetrachloroethene	127-18-4	MS	1030	0	912	113	73 - 134		
Tetrachloroethene	127-18-4	MSD	1070	0	912	117	73 - 134	RPD 3.97 (Max-40)	
Toluene	108-88-3	MS	1020	12.50	912	111	73 - 134		
Toluene	108-88-3	MSD	1030	12.50	912	112	73 - 134	RPD 0.78 (Max-40)	
Total Xylenes	1330-20-7	MS	3420	0	2740	125	75 - 136		
Total Xylenes	1330-20-7	MSD	3420	0	2740	125	75 - 136	RPD 0.13 (Max-40)	
trans-1,2-Dichloroethene	156-60-5	MS	1020	0	912	112	69 - 130		
trans-1,2-Dichloroethene	156-60-5	MSD	1040	0	912	114	69 - 130	RPD 1.46 (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	MS	808	0	912	88.6	67 - 129		
trans-1,3-Dichloropropene	10061-02-6	MSD	844	0	912	92.5	67 - 129	RPD 4.39 (Max-40)	
Trichloroethene	79-01-6	MS	1000	0	912	110	77 - 134		
Trichloroethene	79-01-6	MSD	994	0	912	109	77 - 134	RPD 0.77 (Max-40)	
Trichlorofluoromethane	75-69-4	MS	350	0	912	38.4	27 - 121		
Trichlorofluoromethane	75-69-4	MSD	325	0	912	35.6	27 - 121	RPD 7.48 (Max-40)	
Vinyl Chloride	75-01-4	MS	1220	0	912	134	5 - 200		
Vinyl Chloride	75-01-4	MSD	1220	0	912	134	5 - 200	RPD 0.02 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	1320	1370	96.3	71 - 146	
1,2-Dichloroethane-d4	17060-07-0	MSD	1310	1370	95.4	71 - 146	
4-Bromofluorobenzene	460-00-4	MS	1420	1370	104	46 - 138	
4-Bromofluorobenzene	460-00-4	MSD	1390	1370	101	46 - 138	
Dibromofluoromethane	1868-53-7	MS	1320	1370	96.3	42 - 143	
Dibromofluoromethane	1868-53-7	MSD	1330	1370	97.3	42 - 143	
Toluene-d8	2037-26-5	MS	1300	1370	94.9	54 - 141	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
Toluene-d8	2037-26-5	MSD	1290	1370	94.4	54 - 141	

Method Blank 3911440 (MB) Created on 11/27/2024 21:27 For QC Batch 1346090

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	50.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	50.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	50.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	100	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	100	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	42.5J	ug/kg	100	J
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	50.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	350	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	50.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	100	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	50.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	11.8J	ug/kg	50.0	J
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	50.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	50.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	500	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	250	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	250	ND
Acetone	67-64-1	BLK	ND	ug/kg	500	ND
Benzene	71-43-2	BLK	ND	ug/kg	50.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	50.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	50.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	50.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	50.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	50.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	50.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	50.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	50.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	50.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	50.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	50.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	50.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	50.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	50.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	50.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Freon 113	76-13-1	BLK	ND	ug/kg	50.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	50.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	100	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	50.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	50.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	50.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/kg	100	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	50.0	ND
Styrene	100-42-5	BLK	ND	ug/kg	50.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	50.0	ND
Toluene	108-88-3	BLK	ND	ug/kg	50.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	150	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	50.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	50.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	50.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	50.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	1450	1500	96.4	71 - 146	
4-Bromofluorobenzene	460-00-4	BLK	1570	1500	105	46 - 138	
Dibromofluoromethane	1868-53-7	BLK	1480	1500	98.7	42 - 143	
Toluene-d8	2037-26-5	BLK	1420	1500	95	54 - 141	

Lab Control Standard 3911441 (LCS) Created on 11/27/2024 21:27 For QC Batch 1346090

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	889		1000	88.9	69 - 136		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	954		1000	95.4	69 - 125		
1,1,2-Trichloroethane	79-00-5	LCS	1020		1000	102	70 - 128		
1,1-Dichloroethane	75-34-3	LCS	1030		1000	103	68 - 137		
1,1-Dichloroethene	75-35-4	LCS	1070		1000	107	62 - 135		
1,2,3-Trichlorobenzene	87-61-6	LCS	1240		1000	124	41 - 143		
1,2,3-Trichloropropane	96-18-4	LCS	982		1000	98.2	63 - 133		
1,2,4-Trichlorobenzene	120-82-1	LCS	1160		1000	116	61 - 134		
1,2,4-Trimethylbenzene	95-63-6	LCS	1090		1000	109	75 - 134		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	1030		1000	103	37 - 131		
1,2-Dibromoethane	106-93-4	LCS	1040		1000	104	69 - 130		
1,2-Dichlorobenzene	95-50-1	LCS	1070		1000	107	73 - 127		
1,2-Dichloroethane	107-06-2	LCS	957		1000	95.7	62 - 139		
1,2-Dichloroethene, Total	540-59-0	LCS	2100		2000	105	68 - 137		
1,2-Dichloropropane	78-87-5	LCS	1010		1000	101	77 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,3,5-Trimethylbenzene	108-67-8	LCS	1120		1000	112	74 - 137		
1,3-Dichlorobenzene	541-73-1	LCS	1080		1000	108	73 - 130		
1,4-Dichlorobenzene	106-46-7	LCS	1070		1000	107	74 - 127		
2-Butanone	78-93-3	LCS	5210		5000	104	51 - 151		
2-Hexanone	591-78-6	LCS	4970		5000	99.3	66 - 133		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	5360		5000	107	70 - 130		
Acetone	67-64-1	LCS	5880		5000	118	42 - 154		
Benzene	71-43-2	LCS	1050		1000	105	77 - 134		
Bromochloromethane	74-97-5	LCS	1140		1000	114	70 - 124		
Bromodichloromethane	75-27-4	LCS	997		1000	99.7	73 - 133		
Bromoform	75-25-2	LCS	1050		1000	105	62 - 118		
Bromomethane	74-83-9	LCS	1020		1000	102	41 - 143		
Carbon Disulfide	75-15-0	LCS	953		1000	95.3	48 - 145		
Carbon Tetrachloride	56-23-5	LCS	808		1000	80.8	64 - 139		
Chlorobenzene	108-90-7	LCS	1070		1000	107	76 - 130		
Chlorodibromomethane	124-48-1	LCS	975		1000	97.5	69 - 122		
Chloroethane	75-00-3	LCS	924		1000	92.4	14 - 152		
Chloroform	67-66-3	LCS	1060		1000	106	75 - 127		
Chloromethane	74-87-3	LCS	1020		1000	102	31 - 167		
cis-1,2-Dichloroethene	156-59-2	LCS	1060		1000	106	68 - 137		
cis-1,3-Dichloropropene	10061-01-5	LCS	856		1000	85.6	70 - 129		
Cyclohexane	110-82-7	LCS	1120		1000	112	63 - 151		
Dichlorodifluoromethane	75-71-8	LCS	926		1000	92.6	10 - 180		
Ethylbenzene	100-41-4	LCS	1120		1000	112	76 - 136		
Freon 113	76-13-1	LCS	925		1000	92.5	42 - 109		
Isopropylbenzene	98-82-8	LCS	1220		1000	122	72 - 137		
Methyl acetate	79-20-9	LCS	1200		1000	120	70 - 130		
Methyl cyclohexane	108-87-2	LCS	1280		1000	128	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	932		1000	93.2	65 - 120		
Methylene Chloride	75-09-2	LCS	1040		1000	104	73 - 129		
mp-Xylene	108383/106423	LCS	2240		2000	112	75 - 137		
o-Xylene	95-47-6	LCS	1140		1000	114	74 - 135		
Styrene	100-42-5	LCS	1180		1000	118	72 - 134		
Tetrachloroethene	127-18-4	LCS	1100		1000	110	73 - 134		
Toluene	108-88-3	LCS	1000		1000	100	73 - 134		
Total Xylenes	1330-20-7	LCS	3380		3000	113	75 - 136		
trans-1,2-Dichloroethene	156-60-5	LCS	1040		1000	104	69 - 130		
trans-1,3-Dichloropropene	10061-02-6	LCS	920		1000	92	67 - 129		
Trichloroethene	79-01-6	LCS	990		1000	99	77 - 134		
Trichlorofluoromethane	75-69-4	LCS	1040		1000	104	27 - 121		
Vinyl Chloride	75-01-4	LCS	1270		1000	127	5 - 200		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	1350	1500	90.3	71 - 146	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
4-Bromofluorobenzene	460-00-4	LCS	1560	1500	104	46 - 138	
Dibromofluoromethane	1868-53-7	LCS	1520	1500	102	42 - 143	
Toluene-d8	2037-26-5	LCS	1430	1500	95	54 - 141	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1334383	Prep Method	N/A
Date	N/A	Analysis Method	S2540G-15
Tech.			

Associated Samples

3388148001	3388148002	3388148003	3388148004
3388148005	3388148006	3388148007	

Duplicate 3906456 (DUP) 3387962002 (non-Project Sample) For QC Batch 1334383

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	17.7250	18.7274	RPD	5.50 (Max-10)	
Total Solids	TSP	DUP	82.2749	81.2725	RPD	1.23 (Max-5)	

Duplicate 3906457 (DUP) 3388148002 For QC Batch 1334383

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	15.9702	13.8972	RPD	13.90* (Max-10)	
Total Solids	TSP	DUP	84.0297	86.1027	RPD	2.44 (Max-5)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3388148001	SB-217-6	SW846 3051A	1341498	11/26/2024 11:30	NBU	SW846 6010C	1345591
		SW846 3051A	1341498	11/26/2024 11:30	NBU	SW846 6010C	1345939
		SW846 7471B	1339084	11/26/2024 08:37	JMS	SW846 7471B	1344293
		SW846 3546	1334484	11/18/2024 21:15	J1H	SW846 8270E	1336197
		SW846 5035A	1342493	11/15/2024 07:50	JTH	SW846 8260D	1342494
		N/A	N/A	N/A		S2540G-15	1334383
3388148002	SB-217-3	SW846 3051A	1336101	11/20/2024 16:05	AXW	SW846 6010C	1339019
		SW846 7471B	1339084	11/26/2024 08:37	JMS	SW846 7471B	1344293
		SW846 3546	1334484	11/18/2024 21:15	J1H	SW846 8270E	1336197
		SW846 5035A	1342493	11/15/2024 08:00	JTH	SW846 8260D	1342494
		N/A	N/A	N/A		S2540G-15	1334383
3388148003	SB-220-10	SW846 3051A	1341498	11/26/2024 11:30	NBU	SW846 6010C	1345591
		SW846 7471B	1339084	11/26/2024 08:37	JMS	SW846 7471B	1344293
		SW846 3546	1334484	11/18/2024 21:15	J1H	SW846 8270E	1336197
		SW846 5035A	1346090	11/15/2024 08:45	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1334383
3388148004	SB-220-10D	SW846 3051A	1336101	11/20/2024 16:05	AXW	SW846 6010C	1339019
		SW846 7471B	1339084	11/26/2024 08:37	JMS	SW846 7471B	1344293
		SW846 3546	1334484	11/18/2024 21:15	J1H	SW846 8270E	1336197
		SW846 5035A	1346090	11/15/2024 09:00	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1334383
3388148005	SB-218-7	SW846 3051A	1336101	11/20/2024 16:05	AXW	SW846 6010C	1339019
		SW846 7471B	1339084	11/26/2024 08:37	JMS	SW846 7471B	1344293
		SW846 3546	1334484	11/18/2024 21:15	J1H	SW846 8270E	1338994
		SW846 3546	1334484	11/18/2024 21:15	J1H	SW846 8270E	1336197
		SW846 5035A	1346090	11/15/2024 09:30	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1334383
3388148006	SB-219-8.5	SW846 3051A	1336101	11/20/2024 16:05	AXW	SW846 6010C	1339019
		SW846 7471B	1339084	11/26/2024 08:37	JMS	SW846 7471B	1344293
		SW846 3546	1335398	11/19/2024 22:20	J1H	SW846 8270E	1336190
		SW846 5035A	1346090	11/15/2024 10:10	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1334383
3388148007	SB-221-9	SW846 3051A	1336101	11/20/2024 16:05	AXW	SW846 6010C	1339019
		SW846 7471B	1339084	11/26/2024 08:37	JMS	SW846 7471B	1344293
		SW846 3546	1335398	11/19/2024 22:20	J1H	SW846 8270E	1336190
		SW846 3546	1335398	11/19/2024 22:20	J1H	SW846 8270E	1338994
		SW846 5035A	1346090	11/15/2024 10:55	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1334383
3388148008	TB-4	N/A	N/A	N/A		SW846 8260D	1340485

ALS Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3388148
Logged By: MJE
PM: EXP
ALS Quote #:
of

Client Name: Michael Baker Intl.
Address: 100 Airside Drive
Moon Twp., PA
Contact: C. Kupfer
Phone#: 412-269-6300
Project Name/#: Erie Coke Works
PO:
Purchase Order #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Required: Approved?
?

Temp Taken By: MJE Therm ID: 569 WO Temp (°C): 3°
Receipt Info Completed By: MJE
Cooler Custody Seal Intact: Y N NA
Sample Custody Seal Intact: Y N NA
Received on Ice: Y N NA
Cooler & Samples Intact: Y N
Correct Containers Provided: Y N
Sample Label/COC Agree: Y N
Adequate Sample Volumes: Y N
CR6 Samples Filtered: Y N NA
OP Samples Filtered: Y N NA
VOA Trip Blank: Y N NA
NI≤4 Days?
Rad Screen (uCi): Y N
Courier/Tracking #: 281855295231
SDWA Compliance: Y N
PWSID
WV Containers 0-6°C: Y N NA
*No Sampler-MJE 11/16/24

Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	Container Type	Container Size	Preservative	VOCs 8260D	SVOCs 8270E	TAL Metals + Hg 6010D/7471B	Enter Number of Containers Per Sample or Field Results Below.
SB-217-6	11/15/24	0750	G	S		TCK	3 40 ml	meoH + DI	X	X	X	MJE 11/16/24
SB-217-3		0800				G	8 oz	UNP	X	X	X	
SB-220-10		0845							X	X	X	
SB-220-10D		0900							X	X	X	
SB-218-7		0930							X	X	X	
SB-219-8.5		1010							X	X	X	
SB-221-9		1055							X	X	X	
TB-4	—	—	—	—					X			

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

Sample Collector: ALS Tech / Client ID:

Comments:

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

	Time		Relinquished By / Company Name		Received By / Company Name
24	1400	1	Dave Gavaglia / MBI	2	Fedex
24	835	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: Standard Lvl 1, Standard Lvl 2, Standard Lvl 3, Standard Lvl 4, CLP-like, DOD, NJ RED, NJ Full, HSCA, Landfill, NJ GW

EDDs: Excel Summary, Equis, Custom

Sample Disposal: Lab, Special

EDDS: Format Type:

State Samples Collected in: NY, NJ, PA, WV, FL, other

*G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke Works
Workorder 3388338
Report ID 373102 on 12/10/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 19, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3388338001	SB-225-12	Solid	11/18/2024 10:25	11/19/2024 09:24	CBC	Collected By Client
3388338002	SB-225-12D	Solid	11/18/2024 10:35	11/19/2024 09:24	CBC	Collected By Client
3388338003	SB-223-12	Solid	11/18/2024 11:15	11/19/2024 09:24	CBC	Collected By Client
3388338004	SB-222-6	Solid	11/18/2024 11:50	11/19/2024 09:24	CBC	Collected By Client
3388338005	SB-224-4	Solid	11/18/2024 14:45	11/19/2024 09:24	CBC	Collected By Client
3388338006	SB-224-6	Solid	11/18/2024 14:50	11/19/2024 09:24	CBC	Collected By Client
3388338007	SB-226-16	Solid	11/18/2024 16:25	11/19/2024 09:24	CBC	Collected By Client
3388338008	TB-5	Ground Water	11/18/2024 00:00	11/19/2024 09:24	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID		
3388338001	SB-225-12	**S1**	The 8260 GCMS volatiles analysis was performed at a dilution due to the level of non-target compounds. Reporting limits were adjusted accordingly.
3388338002	SB-225-12D	**S2**	The 8260 GCMS volatiles analysis was performed at a dilution due to the level of non-target compounds. Reporting limits were adjusted accordingly.

Result Notations

Notation Ref.	
1	4-Methyl-2-Pentanone(MIBK) was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The %difference was reported at 29.33%. Acceptable limits are +/-20%.
2	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Butylbenzylphthalate. The % Recovery was reported as 124 and the control limits were 80 to 120.
3	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Pentachlorophenol. The % Recovery was reported as 78 and the control limits were 80 to 120.
4	The method blank associated with this sample was positive for Calcium, at 11.1 mg/kg. The Calcium analyte concentration in the sample was greater than ten times the concentration of the blank. According to the method, the sample was commented and reported. MSY 11/25/24
5	The initial analysis of Cobalt had a raw result of 0.0239 mg/L with an RSD of 35.43. The second analysis of Cobalt had a raw result of 0.0376 mg/L with an RSD of 52.80. The RPD between the injections was 9.05%. Since both analyses had RSD > 20 the results were averaged and reported out. AXW 12/10/24
6	Bromoform was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift was reported at 21.41%. Acceptable limits are +/-20%.
7	2-Butanone was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % difference was reported at 21.85%. Acceptable limits are +/-20%.
8	Methyl acetate was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % difference was reported at 33.26%. Acceptable limits are +/-20%.
9	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 136 and the control limits were 70 to 130.
10	The QC sample type MSD for method SW846 8260D was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 139 and the control limits were 70 to 130.
11	4-Methyl-2-Pentanone (MIBK) was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % difference was reported at 24.00%. Acceptable limits are +/-20%.
12	1,2,3-Trichlorobenzene was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift was reported at 20.87%. Acceptable limits are +/-20%.
13	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte bis(2-Chloroisopropyl)ether. The % Recovery was reported as 74 and the control limits were 80 to 120.
14	The QC sample type LCS for method SW846 8270E was outside the control limits for the analyte mp-Cresol. The % Recovery was reported as 58.8 and the control limits were 60 to 109.
15	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 4-Nitrophenol. The % Recovery was reported as 78 and the control limits were 80 to 120.
16	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
17	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Antimony, Total. The % Recovery was reported as 66 and the control limits were 75 to 125.
18	The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.

19	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Arsenic, Total. The % Recovery was reported as 74.1 and the control limits were 75 to 125.
20	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Arsenic, Total. The % Recovery was reported as 70.5 and the control limits were 75 to 125.
21	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Barium, Total. The % Recovery was reported as 50.9 and the control limits were 75 to 125.
22	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Barium, Total. The % Recovery was reported as 74.9 and the control limits were 75 to 125.
23	The QC sample type MSD1 for method SW846 6010C was outside the control limits for the analyte Potassium, Total. The % Recovery was reported as 34.6 and the control limits were 75 to 125.
24	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Potassium, Total. The % Recovery was reported as -41.9 and the control limits were 75 to 125.
25	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Sodium, Total. The % Recovery was reported as 71.1 and the control limits were 75 to 125.
26	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Thallium, Total. The % Recovery was reported as 74.8 and the control limits were 75 to 125.
27	The QC sample type MS1 for method SW846 6010C was outside the control limits for the analyte Zinc, Total. The % Recovery was reported as 72.5 and the control limits were 75 to 125.
28	The QC sample type LCS for method SW846 8260D was outside the control limits for the analyte Trichlorofluoromethane. The % Recovery was reported as 124 and the control limits were 38 to 123.

Detected Results Summary

Client Sample ID	SB-225-12	Collected	11/18/2024 10:25
Lab Sample ID	3388338001	Lab Receipt	11/19/2024 09:24

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	13400	mg/kg	58.4	19.5	SW846 6010C	#
Arsenic, Total	35.3	mg/kg	11.7	3.9	SW846 6010C	#
Barium, Total	200	mg/kg	5.8	1.9	SW846 6010C	#
Beryllium, Total	2.4J	mg/kg	5.8	1.9	SW846 6010C	#
Calcium, Total	45900	mg/kg	58.4	19.5	SW846 6010C	#
Chromium, Total	34.6	mg/kg	5.8	1.9	SW846 6010C	#
Cobalt, Total	36.1	mg/kg	5.8	1.9	SW846 6010C	#
Copper, Total	39.1	mg/kg	11.7	3.9	SW846 6010C	#
Iron, Total	105000	mg/kg	58.4	19.5	SW846 6010C	#
Lead, Total	134	mg/kg	11.7	3.9	SW846 6010C	#
Magnesium, Total	8130	mg/kg	58.4	19.5	SW846 6010C	#
Manganese, Total	2590	mg/kg	5.8	1.9	SW846 6010C	#
Mercury, Total	0.049J	mg/kg	0.056	0.018	SW846 7471B	#
Nickel, Total	17.8	mg/kg	11.7	3.9	SW846 6010C	#
Potassium, Total	1350	mg/kg	292	97.6	SW846 6010C	#
Sodium, Total	355	mg/kg	292	97.6	SW846 6010C	#
Thallium, Total	8.2J	mg/kg	17.5	5.8	SW846 6010C	#
Vanadium, Total	32.2	mg/kg	5.8	1.9	SW846 6010C	#
Zinc, Total	538	mg/kg	11.7	3.9	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	302J	ug/kg	866	147	SW846 8270E	#
2-Methylnaphthalene	48300	ug/kg	21700	3680	SW846 8270E	#
Acenaphthene	11800	ug/kg	217	73.6	SW846 8270E	#
Acenaphthylene	139000	ug/kg	10800	3680	SW846 8270E	#
Acetophenone	108J	ug/kg	433	73.6	SW846 8270E	#
Anthracene	15100	ug/kg	217	73.6	SW846 8270E	#
Benzo(a)anthracene	195000	ug/kg	10800	3680	SW846 8270E	#
Benzo(a)pyrene	177000	ug/kg	10800	3680	SW846 8270E	#
Benzo(b)fluoranthene	135000	ug/kg	10800	3680	SW846 8270E	#
Benzo(g,h,i)perylene	89300	ug/kg	10800	3680	SW846 8270E	#
Benzo(k)fluoranthene	148000	ug/kg	10800	3680	SW846 8270E	#
Biphenyl	21500	ug/kg	433	73.6	SW846 8270E	#
Carbazole	65500	ug/kg	21700	3680	SW846 8270E	#
Chrysene	181000	ug/kg	10800	3680	SW846 8270E	#
Dibenzo(a,h)anthracene	25400	ug/kg	217	73.6	SW846 8270E	#
Dibenzofuran	107000	ug/kg	21700	3680	SW846 8270E	#
Fluoranthene	688000	ug/kg	10800	3680	SW846 8270E	#
Fluorene	143000	ug/kg	10800	3680	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	92400	ug/kg	10800	3680	SW846 8270E	#
mp-Cresol	909	ug/kg	866	147	SW846 8270E	#
Naphthalene	137000	ug/kg	10800	3680	SW846 8270E	#
o-Cresol	311J	ug/kg	866	147	SW846 8270E	#
Phenanthrene	689000	ug/kg	10800	3680	SW846 8270E	#
Phenol	1360	ug/kg	866	147	SW846 8270E	#
Pyrene	369000	ug/kg	10800	3680	SW846 8270E	#
VOLATILE ORGANICS						

Detected Results Summary

Sample - SB-225-12 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
1,2,4-Trimethylbenzene	276J	ug/kg	537	134	SW846 8260D	#
1,3,5-Trimethylbenzene	153J	ug/kg	537	107	SW846 8260D	#
Methyl cyclohexane	174J	ug/kg	537	161	SW846 8260D	#
mp-Xylene	300J	ug/kg	1070	279	SW846 8260D	#
Toluene	142J	ug/kg	537	123	SW846 8260D	#
Total Xylenes	432J	ug/kg	1610	354	SW846 8260D	#
WET CHEMISTRY						
Moisture	17.6	%	0.1	0.01	S2540G-15	#
Total Solids	82.4	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-225-12D	Collected	11/18/2024 10:35
Lab Sample ID	3388338002	Lab Receipt	11/19/2024 09:24

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	15900	mg/kg	53.4	17.8	SW846 6010C	#
Arsenic, Total	29.3	mg/kg	10.7	3.6	SW846 6010C	#
Barium, Total	214	mg/kg	5.3	1.8	SW846 6010C	#
Beryllium, Total	2.7J	mg/kg	5.3	1.8	SW846 6010C	#
Calcium, Total	54400	mg/kg	53.4	17.8	SW846 6010C	#
Chromium, Total	29.0	mg/kg	5.3	1.8	SW846 6010C	#
Cobalt, Total	19.2	mg/kg	5.3	1.8	SW846 6010C	#
Copper, Total	41.7	mg/kg	10.7	3.6	SW846 6010C	#
Iron, Total	90900	mg/kg	53.4	17.8	SW846 6010C	#
Lead, Total	85.1	mg/kg	10.7	3.6	SW846 6010C	#
Magnesium, Total	9640	mg/kg	53.4	17.8	SW846 6010C	#
Manganese, Total	2060	mg/kg	5.3	1.8	SW846 6010C	#
Nickel, Total	18.7	mg/kg	10.7	3.6	SW846 6010C	#
Potassium, Total	1580	mg/kg	267	89.2	SW846 6010C	#
Sodium, Total	440	mg/kg	267	89.2	SW846 6010C	#
Thallium, Total	9.8J	mg/kg	16.0	5.3	SW846 6010C	#
Vanadium, Total	24.6	mg/kg	5.3	1.8	SW846 6010C	#
Zinc, Total	394	mg/kg	10.7	3.6	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	158J	ug/kg	895	152	SW846 8270E	#
2-Methylnaphthalene	25000	ug/kg	448	76.1	SW846 8270E	#
Acenaphthene	5340	ug/kg	224	76.1	SW846 8270E	#
Acenaphthylene	82600	ug/kg	4480	1520	SW846 8270E	#
Anthracene	132000	ug/kg	4480	1520	SW846 8270E	#
Benzo(a)anthracene	138000	ug/kg	4480	1520	SW846 8270E	#
Benzo(a)pyrene	123000	ug/kg	4480	1520	SW846 8270E	#
Benzo(b)fluoranthene	101000	ug/kg	4480	1520	SW846 8270E	#
Benzo(g,h,i)perylene	64900	ug/kg	4480	1520	SW846 8270E	#
Benzo(k)fluoranthene	101000	ug/kg	4480	1520	SW846 8270E	#
Biphenyl	9390	ug/kg	448	76.1	SW846 8270E	#
Carbazole	39300	ug/kg	8950	1520	SW846 8270E	#
Chrysene	129000	ug/kg	4480	1520	SW846 8270E	#
Dibenzo(a,h)anthracene	15200	ug/kg	224	76.1	SW846 8270E	#
Dibenzofuran	58800	ug/kg	8950	1520	SW846 8270E	#
Fluoranthene	468000	ug/kg	4480	1520	SW846 8270E	#
Fluorene	79800	ug/kg	4480	1520	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	66000	ug/kg	4480	1520	SW846 8270E	#
mp-Cresol	509J	ug/kg	895	152	SW846 8270E	#
Naphthalene	82300	ug/kg	4480	1520	SW846 8270E	#
o-Cresol	167J	ug/kg	895	152	SW846 8270E	#
Phenanthrene	438000	ug/kg	4480	1520	SW846 8270E	#
Phenol	785J	ug/kg	895	152	SW846 8270E	#
Pyrene	272000	ug/kg	4480	1520	SW846 8270E	#
VOLATILE ORGANICS						
Methyl acetate	315J	ug/kg	1250	200	SW846 8260D	#

Detected Results Summary

Sample - SB-225-12D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Moisture	15.7	%	0.1	0.01	S2540G-15	#
Total Solids	84.3	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-223-12	Collected	11/18/2024 11:15
Lab Sample ID	3388338003	Lab Receipt	11/19/2024 09:24

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	45100	mg/kg	56.4	18.8	SW846 6010C	#
Barium, Total	463	mg/kg	5.6	1.9	SW846 6010C	#
Beryllium, Total	7.6	mg/kg	5.6	1.9	SW846 6010C	#
Cadmium, Total	1.2J	mg/kg	2.8	0.94	SW846 6010C	#
Calcium, Total	191000	mg/kg	56.4	18.8	SW846 6010C	#
Chromium, Total	10.1	mg/kg	5.6	1.9	SW846 6010C	#
Copper, Total	8.5J	mg/kg	11.3	3.8	SW846 6010C	#
Iron, Total	7670	mg/kg	56.4	18.8	SW846 6010C	#
Lead, Total	14.3	mg/kg	11.3	3.8	SW846 6010C	#
Magnesium, Total	28600	mg/kg	56.4	18.8	SW846 6010C	#
Manganese, Total	4820	mg/kg	5.6	1.9	SW846 6010C	#
Nickel, Total	4.3J	mg/kg	11.3	3.8	SW846 6010C	#
Potassium, Total	3830	mg/kg	282	94.2	SW846 6010C	#
Selenium, Total	9.5J	mg/kg	28.2	9.4	SW846 6010C	#
Sodium, Total	857	mg/kg	282	94.2	SW846 6010C	#
Vanadium, Total	8.1	mg/kg	5.6	1.9	SW846 6010C	#
Zinc, Total	127	mg/kg	11.3	3.8	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	277J	ug/kg	437	74.2	SW846 8270E	#
Acenaphthene	288	ug/kg	218	74.2	SW846 8270E	#
Acenaphthylene	337	ug/kg	218	74.2	SW846 8270E	#
Anthracene	758	ug/kg	218	74.2	SW846 8270E	#
Benzo(a)anthracene	1710	ug/kg	218	74.2	SW846 8270E	#
Benzo(a)pyrene	1480	ug/kg	218	74.2	SW846 8270E	#
Benzo(b)fluoranthene	1500	ug/kg	218	74.2	SW846 8270E	#
Benzo(g,h,i)perylene	935	ug/kg	218	74.2	SW846 8270E	#
Benzo(k)fluoranthene	1330	ug/kg	218	74.2	SW846 8270E	#
Biphenyl	90.6J	ug/kg	437	74.2	SW846 8270E	#
Carbazole	431J	ug/kg	437	74.2	SW846 8270E	#
Chrysene	1810	ug/kg	218	74.2	SW846 8270E	#
Dibenzo(a,h)anthracene	324	ug/kg	218	74.2	SW846 8270E	#
Dibenzofuran	350J	ug/kg	437	74.2	SW846 8270E	#
Fluoranthene	3960	ug/kg	218	74.2	SW846 8270E	#
Fluorene	453	ug/kg	218	74.2	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	956	ug/kg	218	74.2	SW846 8270E	#
Naphthalene	1850	ug/kg	218	74.2	SW846 8270E	#
Phenanthrene	2760	ug/kg	218	74.2	SW846 8270E	#
Pyrene	2410	ug/kg	218	74.2	SW846 8270E	#
VOLATILE ORGANICS						
Bromomethane	48.1J	ug/kg	51.8	20.2	SW846 8260D	#
Carbon Disulfide	19.9J	ug/kg	51.8	11.9	SW846 8260D	#
Methyl acetate	2390	ug/kg	104	16.6	SW846 8260D	#
Methyl cyclohexane	41.6J	ug/kg	51.8	15.5	SW846 8260D	#
Toluene	14.2J	ug/kg	51.8	11.9	SW846 8260D	#
WET CHEMISTRY						

Detected Results Summary

Sample - SB-223-12 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Moisture	11.9	%	0.1	0.01	S2540G-15	#
Total Solids	88.1	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-222-6	Collected	11/18/2024 11:50
Lab Sample ID	3388338004	Lab Receipt	11/19/2024 09:24

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	58900	mg/kg	51.4	17.1	SW846 6010C	#
Barium, Total	558	mg/kg	5.1	1.7	SW846 6010C	#
Beryllium, Total	10.2	mg/kg	5.1	1.7	SW846 6010C	#
Cadmium, Total	1.6J	mg/kg	2.6	0.86	SW846 6010C	#
Calcium, Total	188000	mg/kg	51.4	17.1	SW846 6010C	#
Chromium, Total	4.2J	mg/kg	5.1	1.7	SW846 6010C	#
Iron, Total	2960	mg/kg	51.4	17.1	SW846 6010C	#
Magnesium, Total	45000	mg/kg	51.4	17.1	SW846 6010C	#
Manganese, Total	1860	mg/kg	5.1	1.7	SW846 6010C	#
Potassium, Total	3850	mg/kg	257	85.8	SW846 6010C	#
Selenium, Total	14.5J	mg/kg	25.7	8.6	SW846 6010C	#
Sodium, Total	861	mg/kg	257	85.8	SW846 6010C	#
Vanadium, Total	2.4J	mg/kg	5.1	1.7	SW846 6010C	#
SEMIVOLATILES						
Fluoranthene	89.1J	ug/kg	184	62.6	SW846 8270E	#
Naphthalene	91.1J	ug/kg	184	62.6	SW846 8270E	#
Phenanthrene	108J	ug/kg	184	62.6	SW846 8270E	#
Pyrene	67.9J	ug/kg	184	62.6	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	80.4	ug/kg	51.4	11.8	SW846 8260D	#
Bromomethane	41.7J	ug/kg	51.4	20.0	SW846 8260D	#
Carbon Disulfide	15.3J	ug/kg	51.4	11.8	SW846 8260D	#
Methyl acetate	224	ug/kg	103	16.4	SW846 8260D	#
mp-Xylene	55.9J	ug/kg	103	26.7	SW846 8260D	#
Toluene	26.2J	ug/kg	51.4	11.8	SW846 8260D	#
Total Xylenes	69.2J	ug/kg	154	33.9	SW846 8260D	#
WET CHEMISTRY						
Moisture	7.9	%	0.1	0.01	S2540G-15	#
Total Solids	92.1	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-224-4	Collected	11/18/2024 14:45
Lab Sample ID	3388338005	Lab Receipt	11/19/2024 09:24

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	64400	mg/kg	52.7	17.6	SW846 6010C	#
Barium, Total	651	mg/kg	5.3	1.8	SW846 6010C	#
Beryllium, Total	12.5	mg/kg	5.3	1.8	SW846 6010C	#
Cadmium, Total	1.8J	mg/kg	2.6	0.88	SW846 6010C	#
Calcium, Total	225000	mg/kg	52.7	17.6	SW846 6010C	#
Chromium, Total	9.3	mg/kg	5.3	1.8	SW846 6010C	#
Copper, Total	5.5J	mg/kg	10.5	3.5	SW846 6010C	#
Iron, Total	2190	mg/kg	52.7	17.6	SW846 6010C	#
Magnesium, Total	41400	mg/kg	52.7	17.6	SW846 6010C	#
Manganese, Total	2650	mg/kg	5.3	1.8	SW846 6010C	#
Potassium, Total	4860	mg/kg	264	88.1	SW846 6010C	#
Selenium, Total	20.5J	mg/kg	26.4	8.8	SW846 6010C	#
Sodium, Total	1160	mg/kg	264	88.1	SW846 6010C	#
Vanadium, Total	8.3	mg/kg	5.3	1.8	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	822	ug/kg	415	70.6	SW846 8270E	#
Acetophenone	439	ug/kg	415	70.6	SW846 8270E	#
Fluorene	5400	ug/kg	208	70.6	SW846 8270E	#
Naphthalene	15500	ug/kg	208	70.6	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	5380	ug/kg	671	168	SW846 8260D	#
1,3,5-Trimethylbenzene	3810	ug/kg	671	134	SW846 8260D	#
Benzene	1030	ug/kg	671	154	SW846 8260D	#
Carbon Disulfide	323J	ug/kg	671	154	SW846 8260D	#
Methyl acetate	732J	ug/kg	1340	215	SW846 8260D	#
mp-Xylene	11100	ug/kg	1340	349	SW846 8260D	#
o-Xylene	3820	ug/kg	671	222	SW846 8260D	#
Toluene	2700	ug/kg	671	154	SW846 8260D	#
Total Xylenes	14900	ug/kg	2010	443	SW846 8260D	#
WET CHEMISTRY						
Moisture	9.2	%	0.1	0.01	S2540G-15	#
Total Solids	90.8	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-224-6	Collected	11/18/2024 14:50
Lab Sample ID	3388338006	Lab Receipt	11/19/2024 09:24

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	58800	mg/kg	52.1	17.3	SW846 6010C	#
Barium, Total	640	mg/kg	5.2	1.7	SW846 6010C	#
Beryllium, Total	11.1	mg/kg	5.2	1.7	SW846 6010C	#
Cadmium, Total	1.7J	mg/kg	2.6	0.87	SW846 6010C	#
Calcium, Total	213000	mg/kg	52.1	17.3	SW846 6010C	#
Chromium, Total	7.8	mg/kg	5.2	1.7	SW846 6010C	#
Copper, Total	7.3J	mg/kg	10.4	3.5	SW846 6010C	#
Iron, Total	1590	mg/kg	52.1	17.3	SW846 6010C	#
Magnesium, Total	42000	mg/kg	52.1	17.3	SW846 6010C	#
Manganese, Total	2310	mg/kg	5.2	1.7	SW846 6010C	#
Potassium, Total	4180	mg/kg	260	87.0	SW846 6010C	#
Selenium, Total	15.6J	mg/kg	26.0	8.7	SW846 6010C	#
Sodium, Total	1100	mg/kg	260	87.0	SW846 6010C	#
Vanadium, Total	5.4	mg/kg	5.2	1.7	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	73.8J	ug/kg	431	73.3	SW846 8270E	#
Acetophenone	154J	ug/kg	431	73.3	SW846 8270E	#
Fluorene	753	ug/kg	215	73.3	SW846 8270E	#
Naphthalene	714	ug/kg	215	73.3	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	11100	ug/kg	560	140	SW846 8260D	#
1,3,5-Trimethylbenzene	13300	ug/kg	560	112	SW846 8260D	#
Benzene	1320	ug/kg	560	129	SW846 8260D	#
Carbon Disulfide	528J	ug/kg	560	129	SW846 8260D	#
Isopropylbenzene	1390	ug/kg	560	123	SW846 8260D	#
Methyl acetate	2400	ug/kg	1120	179	SW846 8260D	#
Methyl cyclohexane	1470	ug/kg	560	168	SW846 8260D	#
mp-Xylene	5330	ug/kg	1120	291	SW846 8260D	#
o-Xylene	3930	ug/kg	560	185	SW846 8260D	#
Toluene	2280	ug/kg	560	129	SW846 8260D	#
Total Xylenes	9260	ug/kg	1680	369	SW846 8260D	#
WET CHEMISTRY						
Moisture	12.4	%	0.1	0.01	S2540G-15	#
Total Solids	87.6	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	SB-226-16	Collected	11/18/2024 16:25
Lab Sample ID	3388338007	Lab Receipt	11/19/2024 09:24

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	53600	mg/kg	47.7	15.9	SW846 6010C	#
Barium, Total	563	mg/kg	4.8	1.6	SW846 6010C	#
Beryllium, Total	7.5	mg/kg	4.8	1.6	SW846 6010C	#
Cadmium, Total	1.4J	mg/kg	2.4	0.80	SW846 6010C	#
Calcium, Total	176000	mg/kg	47.7	15.9	SW846 6010C	#
Chromium, Total	5.1	mg/kg	4.8	1.6	SW846 6010C	#
Iron, Total	3360	mg/kg	47.7	15.9	SW846 6010C	#
Magnesium, Total	38500	mg/kg	47.7	15.9	SW846 6010C	#
Manganese, Total	5500	mg/kg	4.8	1.6	SW846 6010C	#
Nickel, Total	3.4J	mg/kg	9.5	3.2	SW846 6010C	#
Potassium, Total	6780	mg/kg	238	79.6	SW846 6010C	#
Selenium, Total	11.0J	mg/kg	23.8	8.0	SW846 6010C	#
Sodium, Total	1220	mg/kg	238	79.6	SW846 6010C	#
Vanadium, Total	7.8	mg/kg	4.8	1.6	SW846 6010C	#
VOLATILE ORGANICS						
Bromomethane	39.5J	ug/kg	47.1	18.4	SW846 8260D	#
Carbon Disulfide	11.6J	ug/kg	47.1	10.8	SW846 8260D	#
Methyl acetate	56.1J	ug/kg	94.1	15.1	SW846 8260D	#
WET CHEMISTRY						
Moisture	2.3	%	0.1	0.01	S2540G-15	#
Total Solids	97.7	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	TB-5	Collected	11/18/2024 00:00
Lab Sample ID	3388338008	Lab Receipt	11/19/2024 09:24

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS						
Chloromethane	0.37J	ug/L	1.0	0.31	SW846 8260D	#
Methyl acetate	0.36J	ug/L	2.0	0.32	SW846 8260D	#

Results

Client Sample ID	SB-225-12	Collected	11/18/2024 10:25
Lab Sample ID	3388338001	Lab Receipt	11/19/2024 09:24

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	13400	S1	mg/kg	58.4	19.5	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Antimony, Total	ND	ND,S1	mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Arsenic, Total	35.3	S1	mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Barium, Total	200	S1	mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Beryllium, Total	2.4J	J,S1	mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Cadmium, Total	ND	ND,S1	mg/kg	2.9	0.98	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Calcium, Total	45900	S1	mg/kg	58.4	19.5	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Chromium, Total	34.6	S1	mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Cobalt, Total	36.1	S1	mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Copper, Total	39.1	S1	mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Iron, Total	105000	S1	mg/kg	58.4	19.5	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Lead, Total	134	S1	mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Magnesium, Total	8130	S1	mg/kg	58.4	19.5	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Manganese, Total	2590	S1	mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Mercury, Total	0.049J	J,S1	mg/kg	0.056	0.018	SW846 7471B	1	12/03/2024 11:50	AXW	B
Nickel, Total	17.8	S1	mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Potassium, Total	1350	S1	mg/kg	292	97.6	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Selenium, Total	ND	ND,S1	mg/kg	29.2	9.8	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Silver, Total	ND	ND,S1	mg/kg	2.9	0.98	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Sodium, Total	355	S1	mg/kg	292	97.6	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Thallium, Total	8.2J	J,S1	mg/kg	17.5	5.8	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Vanadium, Total	32.2	S1	mg/kg	5.8	1.9	SW846 6010C	5	11/25/2024 13:29	MSY	B1
Zinc, Total	538	S1	mg/kg	11.7	3.9	SW846 6010C	5	11/25/2024 13:29	MSY	B1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
1,4-Dioxane	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
2,3,4,6-Tetrachlorophenol	ND	ND,S1	ug/kg	866	147	SW846 8270E	4	11/21/2024 23:07	S7M	B
2,4,5-Trichlorophenol	ND	ND,S1	ug/kg	866	147	SW846 8270E	4	11/21/2024 23:07	S7M	B
2,4,6-Trichlorophenol	ND	ND,S1	ug/kg	866	147	SW846 8270E	4	11/21/2024 23:07	S7M	B
2,4-Dichlorophenol	ND	ND,S1	ug/kg	866	147	SW846 8270E	4	11/21/2024 23:07	S7M	B
2,4-Dimethylphenol	302J	J,S1	ug/kg	866	147	SW846 8270E	4	11/21/2024 23:07	S7M	B
2,4-Dinitrophenol	ND	ND,S1	ug/kg	1730	858	SW846 8270E	4	11/21/2024 23:07	S7M	B
2,4-Dinitrotoluene	ND	ND,S1	ug/kg	433	86.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
2,6-Dinitrotoluene	ND	ND,S1	ug/kg	433	147	SW846 8270E	4	11/21/2024 23:07	S7M	B
2-Chloronaphthalene	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
2-Chlorophenol	ND	ND,S1	ug/kg	866	147	SW846 8270E	4	11/21/2024 23:07	S7M	B
2-Methyl-4,6-dinitrophenol	ND	ND,S1	ug/kg	866	217	SW846 8270E	4	11/21/2024 23:07	S7M	B
2-Methylnaphthalene	48300	S1	ug/kg	21700	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
2-Nitroaniline	ND	ND,S1	ug/kg	866	99.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
2-Nitrophenol	ND	ND,S1	ug/kg	866	147	SW846 8270E	4	11/21/2024 23:07	S7M	B
3,3-Dichlorobenzidine	ND	ND,S1	ug/kg	866	134	SW846 8270E	4	11/21/2024 23:07	S7M	B
3-Nitroaniline	ND	ND,S1	ug/kg	866	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
4-Bromophenyl-phenylether	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
4-Chloro-3-methylphenol	ND	ND,S1	ug/kg	866	147	SW846 8270E	4	11/21/2024 23:07	S7M	B

Results

Client Sample ID	SB-225-12	Collected	11/18/2024 10:25
Lab Sample ID	3388338001	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND,S1	ug/kg	866	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
4-Chlorophenyl-phenylether	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
4-Nitroaniline	ND	ND,S1	ug/kg	866	126	SW846 8270E	4	11/21/2024 23:07	S7M	B
4-Nitrophenol	ND	ND,S1	ug/kg	866	147	SW846 8270E	4	11/21/2024 23:07	S7M	B
Acenaphthene	11800	S1	ug/kg	217	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Acenaphthylene	139000	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Acetophenone	108J	J,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Anthracene	15100	S1	ug/kg	217	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Atrazine	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Benzaldehyde	ND	ND,S1	ug/kg	866	86.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Benzo(a)anthracene	195000	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Benzo(a)pyrene	177000	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Benzo(b)fluoranthene	135000	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Benzo(g,h,i)perylene	89300	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Benzo(k)fluoranthene	148000	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Biphenyl	21500	S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
bis(2-Chloroethoxy)methane	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
bis(2-Chloroethyl)ether	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
bis(2-Chloroisopropyl)ether	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
bis(2-Ethylhexyl)phthalate	ND	ND,S1	ug/kg	433	95.3	SW846 8270E	4	11/21/2024 23:07	S7M	B
Butylbenzylphthalate	ND	ND,2,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Caprolactam	ND	ND,S1	ug/kg	866	169	SW846 8270E	4	11/21/2024 23:07	S7M	B
Carbazole	65500	S1	ug/kg	21700	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Chrysene	181000	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Dibenzo(a,h)anthracene	25400	S1	ug/kg	217	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Dibenzofuran	107000	S1	ug/kg	21700	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Diethylphthalate	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Dimethylphthalate	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Di-n-Butylphthalate	ND	ND,S1	ug/kg	433	152	SW846 8270E	4	11/21/2024 23:07	S7M	B
Di-n-Octylphthalate	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Fluoranthene	688000	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Fluorene	143000	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Hexachlorobenzene	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Hexachlorobutadiene	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Hexachlorocyclopentadiene	ND	ND,S1	ug/kg	866	130	SW846 8270E	4	11/21/2024 23:07	S7M	B
Hexachloroethane	ND	ND,S1	ug/kg	433	99.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
Indeno(1,2,3-cd)pyrene	92400	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Isophorone	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
mp-Cresol	909	S1	ug/kg	866	147	SW846 8270E	4	11/21/2024 23:07	S7M	B
Naphthalene	137000	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Nitrobenzene	ND	ND,S1	ug/kg	433	147	SW846 8270E	4	11/21/2024 23:07	S7M	B
N-Nitroso-di-n-propylamine	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
N-Nitrosodiphenylamine	ND	ND,S1	ug/kg	433	73.6	SW846 8270E	4	11/21/2024 23:07	S7M	B
o-Cresol	311J	J,S1	ug/kg	866	147	SW846 8270E	4	11/21/2024 23:07	S7M	B
Pentachlorophenol	ND	ND,3,S1	ug/kg	866	212	SW846 8270E	4	11/21/2024 23:07	S7M	B
Phenanthrene	689000	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B
Phenol	1360	S1	ug/kg	866	147	SW846 8270E	4	11/21/2024 23:07	S7M	B

Results

Client Sample ID	SB-225-12	Collected	11/18/2024 10:25
Lab Sample ID	3388338001	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	369000	S1	ug/kg	10800	3680	SW846 8270E	200	11/22/2024 21:15	S7M	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	73.9%	19 – 132	11/21/2024 23:07	
2-Fluorobiphenyl	321-60-8	77.3%	40 – 110	11/21/2024 23:07	
2-Fluorophenol	367-12-4	66.6%	26 – 116	11/21/2024 23:07	
Nitrobenzene-d5	4165-60-0	73.5%	38 – 112	11/21/2024 23:07	
Phenol-d5	4165-62-2	73.7%	35 – 111	11/21/2024 23:07	
Terphenyl-d14	98904-43-9	108%	45 – 126	11/21/2024 23:07	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,S1	ug/kg	537	118	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,1,2,2-Tetrachloroethane	ND	ND,S1	ug/kg	537	182	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,1,2-Trichloroethane	ND	ND,S1	ug/kg	537	177	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,1-Dichloroethane	ND	ND,S1	ug/kg	537	150	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,1-Dichloroethene	ND	ND,S1	ug/kg	537	156	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,2,3-Trichlorobenzene	ND	ND,S1	ug/kg	1070	499	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,2,3-Trichloropropane	ND	ND,S1	ug/kg	1070	322	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,2,4-Trichlorobenzene	ND	ND,S1	ug/kg	1070	440	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,2,4-Trimethylbenzene	276J	J,S1	ug/kg	537	134	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,2-Dibromo-3-chloropropane	ND	ND,S1	ug/kg	3760	805	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,2-Dibromoethane	ND	ND,S1	ug/kg	537	150	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,2-Dichlorobenzene	ND	ND,S1	ug/kg	537	204	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,2-Dichloroethane	ND	ND,S1	ug/kg	537	172	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,2-Dichloroethene, Total	ND	ND,S1	ug/kg	1070	242	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,2-Dichloropropane	ND	ND,S1	ug/kg	537	129	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,3,5-Trimethylbenzene	153J	J,S1	ug/kg	537	107	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,3-Dichlorobenzene	ND	ND,S1	ug/kg	537	134	SW846 8260D	500	11/26/2024 16:31	JTH	D
1,4-Dichlorobenzene	ND	ND,S1	ug/kg	537	145	SW846 8260D	500	11/26/2024 16:31	JTH	D
2-Butanone	ND	ND,S1	ug/kg	5370	966	SW846 8260D	500	11/26/2024 16:31	JTH	D
2-Hexanone	ND	ND,S1	ug/kg	2680	698	SW846 8260D	500	11/26/2024 16:31	JTH	D
4-Methyl-2-Pentanone(MIBK)	ND	ND,1,S1	ug/kg	2680	805	SW846 8260D	500	11/26/2024 16:31	JTH	D
Acetone	ND	ND,S1	ug/kg	5370	1660	SW846 8260D	500	11/26/2024 16:31	JTH	D
Benzene	ND	ND,S1	ug/kg	537	123	SW846 8260D	500	11/26/2024 16:31	JTH	D
Bromochloromethane	ND	ND,S1	ug/kg	537	172	SW846 8260D	500	11/26/2024 16:31	JTH	D
Bromodichloromethane	ND	ND,S1	ug/kg	537	145	SW846 8260D	500	11/26/2024 16:31	JTH	D
Bromoform	ND	ND,S1	ug/kg	537	215	SW846 8260D	500	11/26/2024 16:31	JTH	D
Bromomethane	ND	ND,S1	ug/kg	537	209	SW846 8260D	500	11/26/2024 16:31	JTH	D
Carbon Disulfide	ND	ND,S1	ug/kg	537	123	SW846 8260D	500	11/26/2024 16:31	JTH	D
Carbon Tetrachloride	ND	ND,S1	ug/kg	537	166	SW846 8260D	500	11/26/2024 16:31	JTH	D
Chlorobenzene	ND	ND,S1	ug/kg	537	102	SW846 8260D	500	11/26/2024 16:31	JTH	D
Chlorodibromomethane	ND	ND,S1	ug/kg	537	242	SW846 8260D	500	11/26/2024 16:31	JTH	D
Chloroethane	ND	ND,S1	ug/kg	537	177	SW846 8260D	500	11/26/2024 16:31	JTH	D

Results

Client Sample ID	SB-225-12	Collected	11/18/2024 10:25
Lab Sample ID	3388338001	Lab Receipt	11/19/2024 09:24

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND,S1	ug/kg	537	113	SW846 8260D	500	11/26/2024 16:31	JTH	D
Chloromethane	ND	ND,S1	ug/kg	537	166	SW846 8260D	500	11/26/2024 16:31	JTH	D
cis-1,2-Dichloroethene	ND	ND,S1	ug/kg	537	172	SW846 8260D	500	11/26/2024 16:31	JTH	D
cis-1,3-Dichloropropene	ND	ND,S1	ug/kg	537	166	SW846 8260D	500	11/26/2024 16:31	JTH	D
Cyclohexane	ND	ND,S1	ug/kg	537	156	SW846 8260D	500	11/26/2024 16:31	JTH	D
Dichlorodifluoromethane	ND	ND,S1	ug/kg	537	177	SW846 8260D	500	11/26/2024 16:31	JTH	D
Ethylbenzene	ND	ND,S1	ug/kg	537	182	SW846 8260D	500	11/26/2024 16:31	JTH	D
Freon 113	ND	ND,S1	ug/kg	537	140	SW846 8260D	500	11/26/2024 16:31	JTH	D
Isopropylbenzene	ND	ND,S1	ug/kg	537	118	SW846 8260D	500	11/26/2024 16:31	JTH	D
Methyl acetate	ND	ND,S1	ug/kg	1070	172	SW846 8260D	500	11/26/2024 16:31	JTH	D
Methyl cyclohexane	174J	J,S1	ug/kg	537	161	SW846 8260D	500	11/26/2024 16:31	JTH	D
Methyl t-Butyl Ether	ND	ND,S1	ug/kg	537	177	SW846 8260D	500	11/26/2024 16:31	JTH	D
Methylene Chloride	ND	ND,S1	ug/kg	537	242	SW846 8260D	500	11/26/2024 16:31	JTH	D
mp-Xylene	300J	J,S1	ug/kg	1070	279	SW846 8260D	500	11/26/2024 16:31	JTH	D
o-Xylene	ND	ND,S1	ug/kg	537	177	SW846 8260D	500	11/26/2024 16:31	JTH	D
Styrene	ND	ND,S1	ug/kg	537	129	SW846 8260D	500	11/26/2024 16:31	JTH	D
Tetrachloroethene	ND	ND,S1	ug/kg	537	188	SW846 8260D	500	11/26/2024 16:31	JTH	D
Toluene	142J	J,S1	ug/kg	537	123	SW846 8260D	500	11/26/2024 16:31	JTH	D
Total Xylenes	432J	J,S1	ug/kg	1610	354	SW846 8260D	500	11/26/2024 16:31	JTH	D
trans-1,2-Dichloroethene	ND	ND,S1	ug/kg	537	140	SW846 8260D	500	11/26/2024 16:31	JTH	D
trans-1,3-Dichloropropene	ND	ND,S1	ug/kg	537	156	SW846 8260D	500	11/26/2024 16:31	JTH	D
Trichloroethene	ND	ND,S1	ug/kg	537	177	SW846 8260D	500	11/26/2024 16:31	JTH	D
Trichlorofluoromethane	ND	ND,S1	ug/kg	537	129	SW846 8260D	500	11/26/2024 16:31	JTH	D
Vinyl Chloride	ND	ND,S1	ug/kg	537	161	SW846 8260D	500	11/26/2024 16:31	JTH	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	71 – 146	11/26/2024 16:31	
4-Bromofluorobenzene	460-00-4	107%	46 – 138	11/26/2024 16:31	
Dibromofluoromethane	1868-53-7	101%	42 – 143	11/26/2024 16:31	
Toluene-d8	2037-26-5	99.9%	54 – 141	11/26/2024 16:31	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	17.6	S1	%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B
Total Solids	82.4	S1	%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B

Results

Client Sample ID	SB-225-12D	Collected	11/18/2024 10:35
Lab Sample ID	3388338002	Lab Receipt	11/19/2024 09:24

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	15900	S2	mg/kg	53.4	17.8	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Antimony, Total	ND	ND,S2	mg/kg	10.7	3.6	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Arsenic, Total	29.3	S2	mg/kg	10.7	3.6	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Barium, Total	214	S2	mg/kg	5.3	1.8	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Beryllium, Total	2.7J	J,S2	mg/kg	5.3	1.8	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Cadmium, Total	ND	ND,S2	mg/kg	2.7	0.89	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Calcium, Total	54400	4,S2	mg/kg	53.4	17.8	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Chromium, Total	29.0	S2	mg/kg	5.3	1.8	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Cobalt, Total	19.2	5,S2	mg/kg	5.3	1.8	SW846 6010C	5	12/09/2024 18:59	MSY	B1
Copper, Total	41.7	S2	mg/kg	10.7	3.6	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Iron, Total	90900	S2	mg/kg	53.4	17.8	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Lead, Total	85.1	S2	mg/kg	10.7	3.6	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Magnesium, Total	9640	S2	mg/kg	53.4	17.8	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Manganese, Total	2060	S2	mg/kg	5.3	1.8	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Mercury, Total	ND	ND,S2	mg/kg	0.050	0.016	SW846 7471B	1	12/03/2024 12:12	AXW	B
Nickel, Total	18.7	S2	mg/kg	10.7	3.6	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Potassium, Total	1580	S2	mg/kg	267	89.2	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Selenium, Total	ND	ND,S2	mg/kg	26.7	8.9	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Silver, Total	ND	ND,S2	mg/kg	2.7	0.89	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Sodium, Total	440	S2	mg/kg	267	89.2	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Thallium, Total	9.8J	J,S2	mg/kg	16.0	5.3	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Vanadium, Total	24.6	S2	mg/kg	5.3	1.8	SW846 6010C	5	11/25/2024 12:41	MSY	B1
Zinc, Total	394	S2	mg/kg	10.7	3.6	SW846 6010C	5	11/25/2024 12:41	MSY	B1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
1,4-Dioxane	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
2,3,4,6-Tetrachlorophenol	ND	ND,S2	ug/kg	895	152	SW846 8270E	4	11/21/2024 22:41	S7M	B
2,4,5-Trichlorophenol	ND	ND,S2	ug/kg	895	152	SW846 8270E	4	11/21/2024 22:41	S7M	B
2,4,6-Trichlorophenol	ND	ND,S2	ug/kg	895	152	SW846 8270E	4	11/21/2024 22:41	S7M	B
2,4-Dichlorophenol	ND	ND,S2	ug/kg	895	152	SW846 8270E	4	11/21/2024 22:41	S7M	B
2,4-Dimethylphenol	158J	J,S2	ug/kg	895	152	SW846 8270E	4	11/21/2024 22:41	S7M	B
2,4-Dinitrophenol	ND	ND,S2	ug/kg	1790	886	SW846 8270E	4	11/21/2024 22:41	S7M	B
2,4-Dinitrotoluene	ND	ND,S2	ug/kg	448	89.5	SW846 8270E	4	11/21/2024 22:41	S7M	B
2,6-Dinitrotoluene	ND	ND,S2	ug/kg	448	152	SW846 8270E	4	11/21/2024 22:41	S7M	B
2-Chloronaphthalene	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
2-Chlorophenol	ND	ND,S2	ug/kg	895	152	SW846 8270E	4	11/21/2024 22:41	S7M	B
2-Methyl-4,6-dinitrophenol	ND	ND,S2	ug/kg	895	224	SW846 8270E	4	11/21/2024 22:41	S7M	B
2-Methylnaphthalene	25000	S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
2-Nitroaniline	ND	ND,S2	ug/kg	895	103	SW846 8270E	4	11/21/2024 22:41	S7M	B
2-Nitrophenol	ND	ND,S2	ug/kg	895	152	SW846 8270E	4	11/21/2024 22:41	S7M	B
3,3-Dichlorobenzidine	ND	ND,S2	ug/kg	895	139	SW846 8270E	4	11/21/2024 22:41	S7M	B
3-Nitroaniline	ND	ND,S2	ug/kg	895	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
4-Bromophenyl-phenylether	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
4-Chloro-3-methylphenol	ND	ND,S2	ug/kg	895	152	SW846 8270E	4	11/21/2024 22:41	S7M	B

Results

Client Sample ID	SB-225-12D	Collected	11/18/2024 10:35
Lab Sample ID	3388338002	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND,S2	ug/kg	895	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
4-Chlorophenyl-phenylether	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
4-Nitroaniline	ND	ND,S2	ug/kg	895	130	SW846 8270E	4	11/21/2024 22:41	S7M	B
4-Nitrophenol	ND	ND,S2	ug/kg	895	152	SW846 8270E	4	11/21/2024 22:41	S7M	B
Acenaphthene	5340	S2	ug/kg	224	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
Acenaphthylene	82600	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Acetophenone	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
Anthracene	132000	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Atrazine	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
Benzaldehyde	ND	ND,S2	ug/kg	895	89.5	SW846 8270E	4	11/21/2024 22:41	S7M	B
Benzo(a)anthracene	138000	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Benzo(a)pyrene	123000	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Benzo(b)fluoranthene	101000	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Benzo(g,h,i)perylene	64900	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Benzo(k)fluoranthene	101000	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Biphenyl	9390	S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
bis(2-Chloroethoxy)methane	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
bis(2-Chloroethyl)ether	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
bis(2-Chloroisopropyl)ether	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
bis(2-Ethylhexyl)phthalate	ND	ND,S2	ug/kg	448	98.5	SW846 8270E	4	11/21/2024 22:41	S7M	B
Butylbenzylphthalate	ND	ND,2,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
Caprolactam	ND	ND,S2	ug/kg	895	175	SW846 8270E	4	11/21/2024 22:41	S7M	B
Carbazole	39300	S2	ug/kg	8950	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Chrysene	129000	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Dibenzo(a,h)anthracene	15200	S2	ug/kg	224	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
Dibenzofuran	58800	S2	ug/kg	8950	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Diethylphthalate	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
Dimethylphthalate	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
Di-n-Butylphthalate	ND	ND,S2	ug/kg	448	157	SW846 8270E	4	11/21/2024 22:41	S7M	B
Di-n-Octylphthalate	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
Fluoranthene	468000	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Fluorene	79800	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Hexachlorobenzene	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
Hexachlorobutadiene	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
Hexachlorocyclopentadiene	ND	ND,S2	ug/kg	895	134	SW846 8270E	4	11/21/2024 22:41	S7M	B
Hexachloroethane	ND	ND,S2	ug/kg	448	103	SW846 8270E	4	11/21/2024 22:41	S7M	B
Indeno(1,2,3-cd)pyrene	66000	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Isophorone	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
mp-Cresol	509J	J,S2	ug/kg	895	152	SW846 8270E	4	11/21/2024 22:41	S7M	B
Naphthalene	82300	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Nitrobenzene	ND	ND,S2	ug/kg	448	152	SW846 8270E	4	11/21/2024 22:41	S7M	B
N-Nitroso-di-n-propylamine	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
N-Nitrosodiphenylamine	ND	ND,S2	ug/kg	448	76.1	SW846 8270E	4	11/21/2024 22:41	S7M	B
o-Cresol	167J	J,S2	ug/kg	895	152	SW846 8270E	4	11/21/2024 22:41	S7M	B
Pentachlorophenol	ND	ND,3,S2	ug/kg	895	219	SW846 8270E	4	11/21/2024 22:41	S7M	B
Phenanthrene	438000	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B
Phenol	785J	J,S2	ug/kg	895	152	SW846 8270E	4	11/21/2024 22:41	S7M	B

Results

Client Sample ID	SB-225-12D	Collected	11/18/2024 10:35
Lab Sample ID	3388338002	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	272000	S2	ug/kg	4480	1520	SW846 8270E	80	11/22/2024 20:49	S7M	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	73.7%	19 – 132	11/21/2024 22:41	
2-Fluorobiphenyl	321-60-8	84.4%	40 – 110	11/21/2024 22:41	
2-Fluorophenol	367-12-4	73.1%	26 – 116	11/21/2024 22:41	
Nitrobenzene-d5	4165-60-0	79%	38 – 112	11/21/2024 22:41	
Phenol-d5	4165-62-2	78.5%	35 – 111	11/21/2024 22:41	
Terphenyl-d14	98904-43-9	109%	45 – 126	11/21/2024 22:41	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,S2	ug/kg	624	137	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,1,2,2-Tetrachloroethane	ND	ND,S2	ug/kg	624	212	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,1,2-Trichloroethane	ND	ND,S2	ug/kg	624	206	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,1-Dichloroethane	ND	ND,S2	ug/kg	624	175	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,1-Dichloroethene	ND	ND,S2	ug/kg	624	181	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,2,3-Trichlorobenzene	ND	ND,S2	ug/kg	1250	581	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,2,3-Trichloropropane	ND	ND,S2	ug/kg	1250	375	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,2,4-Trichlorobenzene	ND	ND,S2	ug/kg	1250	512	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,2,4-Trimethylbenzene	ND	ND,S2	ug/kg	624	156	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,2-Dibromo-3-chloropropane	ND	ND,S2	ug/kg	4370	937	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,2-Dibromoethane	ND	ND,S2	ug/kg	624	175	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,2-Dichlorobenzene	ND	ND,S2	ug/kg	624	237	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,2-Dichloroethane	ND	ND,S2	ug/kg	624	200	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,2-Dichloroethene, Total	ND	ND,S2	ug/kg	1250	281	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,2-Dichloropropane	ND	ND,S2	ug/kg	624	150	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,3,5-Trimethylbenzene	ND	ND,S2	ug/kg	624	125	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,3-Dichlorobenzene	ND	ND,S2	ug/kg	624	156	SW846 8260D	500	11/26/2024 16:51	JTH	D
1,4-Dichlorobenzene	ND	ND,S2	ug/kg	624	169	SW846 8260D	500	11/26/2024 16:51	JTH	D
2-Butanone	ND	ND,S2	ug/kg	6240	1120	SW846 8260D	500	11/26/2024 16:51	JTH	D
2-Hexanone	ND	ND,S2	ug/kg	3120	812	SW846 8260D	500	11/26/2024 16:51	JTH	D
4-Methyl-2-Pentanone(MIBK)	ND	ND,1,S2	ug/kg	3120	937	SW846 8260D	500	11/26/2024 16:51	JTH	D
Acetone	ND	ND,S2	ug/kg	6240	1940	SW846 8260D	500	11/26/2024 16:51	JTH	D
Benzene	ND	ND,S2	ug/kg	624	144	SW846 8260D	500	11/26/2024 16:51	JTH	D
Bromochloromethane	ND	ND,S2	ug/kg	624	200	SW846 8260D	500	11/26/2024 16:51	JTH	D
Bromodichloromethane	ND	ND,S2	ug/kg	624	169	SW846 8260D	500	11/26/2024 16:51	JTH	D
Bromoform	ND	ND,S2	ug/kg	624	250	SW846 8260D	500	11/26/2024 16:51	JTH	D
Bromomethane	ND	ND,S2	ug/kg	624	244	SW846 8260D	500	11/26/2024 16:51	JTH	D
Carbon Disulfide	ND	ND,S2	ug/kg	624	144	SW846 8260D	500	11/26/2024 16:51	JTH	D
Carbon Tetrachloride	ND	ND,S2	ug/kg	624	194	SW846 8260D	500	11/26/2024 16:51	JTH	D
Chlorobenzene	ND	ND,S2	ug/kg	624	119	SW846 8260D	500	11/26/2024 16:51	JTH	D
Chlorodibromomethane	ND	ND,S2	ug/kg	624	281	SW846 8260D	500	11/26/2024 16:51	JTH	D
Chloroethane	ND	ND,S2	ug/kg	624	206	SW846 8260D	500	11/26/2024 16:51	JTH	D

Results

Client Sample ID	SB-225-12D	Collected	11/18/2024 10:35
Lab Sample ID	3388338002	Lab Receipt	11/19/2024 09:24

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND,S2	ug/kg	624	131	SW846 8260D	500	11/26/2024 16:51	JTH	D
Chloromethane	ND	ND,S2	ug/kg	624	194	SW846 8260D	500	11/26/2024 16:51	JTH	D
cis-1,2-Dichloroethene	ND	ND,S2	ug/kg	624	200	SW846 8260D	500	11/26/2024 16:51	JTH	D
cis-1,3-Dichloropropene	ND	ND,S2	ug/kg	624	194	SW846 8260D	500	11/26/2024 16:51	JTH	D
Cyclohexane	ND	ND,S2	ug/kg	624	181	SW846 8260D	500	11/26/2024 16:51	JTH	D
Dichlorodifluoromethane	ND	ND,S2	ug/kg	624	206	SW846 8260D	500	11/26/2024 16:51	JTH	D
Ethylbenzene	ND	ND,S2	ug/kg	624	212	SW846 8260D	500	11/26/2024 16:51	JTH	D
Freon 113	ND	ND,S2	ug/kg	624	162	SW846 8260D	500	11/26/2024 16:51	JTH	D
Isopropylbenzene	ND	ND,S2	ug/kg	624	137	SW846 8260D	500	11/26/2024 16:51	JTH	D
Methyl acetate	315J	J,S2	ug/kg	1250	200	SW846 8260D	500	11/26/2024 16:51	JTH	D
Methyl cyclohexane	ND	ND,S2	ug/kg	624	187	SW846 8260D	500	11/26/2024 16:51	JTH	D
Methyl t-Butyl Ether	ND	ND,S2	ug/kg	624	206	SW846 8260D	500	11/26/2024 16:51	JTH	D
Methylene Chloride	ND	ND,S2	ug/kg	624	281	SW846 8260D	500	11/26/2024 16:51	JTH	D
mp-Xylene	ND	ND,S2	ug/kg	1250	325	SW846 8260D	500	11/26/2024 16:51	JTH	D
o-Xylene	ND	ND,S2	ug/kg	624	206	SW846 8260D	500	11/26/2024 16:51	JTH	D
Styrene	ND	ND,S2	ug/kg	624	150	SW846 8260D	500	11/26/2024 16:51	JTH	D
Tetrachloroethene	ND	ND,S2	ug/kg	624	219	SW846 8260D	500	11/26/2024 16:51	JTH	D
Toluene	ND	ND,S2	ug/kg	624	144	SW846 8260D	500	11/26/2024 16:51	JTH	D
Total Xylenes	ND	ND,S2	ug/kg	1870	412	SW846 8260D	500	11/26/2024 16:51	JTH	D
trans-1,2-Dichloroethene	ND	ND,S2	ug/kg	624	162	SW846 8260D	500	11/26/2024 16:51	JTH	D
trans-1,3-Dichloropropene	ND	ND,S2	ug/kg	624	181	SW846 8260D	500	11/26/2024 16:51	JTH	D
Trichloroethene	ND	ND,S2	ug/kg	624	206	SW846 8260D	500	11/26/2024 16:51	JTH	D
Trichlorofluoromethane	ND	ND,S2	ug/kg	624	150	SW846 8260D	500	11/26/2024 16:51	JTH	D
Vinyl Chloride	ND	ND,S2	ug/kg	624	187	SW846 8260D	500	11/26/2024 16:51	JTH	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	96.1%	71 – 146	11/26/2024 16:51	
4-Bromofluorobenzene	460-00-4	107%	46 – 138	11/26/2024 16:51	
Dibromofluoromethane	1868-53-7	97.4%	42 – 143	11/26/2024 16:51	
Toluene-d8	2037-26-5	97.9%	54 – 141	11/26/2024 16:51	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	15.7	S2	%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B
Total Solids	84.3	S2	%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B

Results

Client Sample ID	SB-223-12	Collected	11/18/2024 11:15
Lab Sample ID	3388338003	Lab Receipt	11/19/2024 09:24

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	45100		mg/kg	56.4	18.8	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Antimony, Total	ND	ND	mg/kg	11.3	3.8	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Arsenic, Total	ND	ND	mg/kg	11.3	3.8	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Barium, Total	463		mg/kg	5.6	1.9	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Beryllium, Total	7.6		mg/kg	5.6	1.9	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Cadmium, Total	1.2J	J	mg/kg	2.8	0.94	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Calcium, Total	191000		mg/kg	56.4	18.8	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Chromium, Total	10.1		mg/kg	5.6	1.9	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Cobalt, Total	ND	ND	mg/kg	5.6	1.9	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Copper, Total	8.5J	J	mg/kg	11.3	3.8	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Iron, Total	7670		mg/kg	56.4	18.8	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Lead, Total	14.3		mg/kg	11.3	3.8	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Magnesium, Total	28600		mg/kg	56.4	18.8	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Manganese, Total	4820		mg/kg	5.6	1.9	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Mercury, Total	ND	ND	mg/kg	0.057	0.018	SW846 7471B	1	12/03/2024 11:51	AXW	B
Nickel, Total	4.3J	J	mg/kg	11.3	3.8	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Potassium, Total	3830		mg/kg	282	94.2	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Selenium, Total	9.5J	J	mg/kg	28.2	9.4	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Silver, Total	ND	ND	mg/kg	2.8	0.94	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Sodium, Total	857		mg/kg	282	94.2	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Thallium, Total	ND	ND	mg/kg	16.9	5.6	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Vanadium, Total	8.1		mg/kg	5.6	1.9	SW846 6010C	5	11/25/2024 13:20	MSY	B1
Zinc, Total	127		mg/kg	11.3	3.8	SW846 6010C	5	11/25/2024 13:20	MSY	B1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
1,4-Dioxane	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	873	148	SW846 8270E	4	11/21/2024 22:16	S7M	B
2,4,5-Trichlorophenol	ND	ND	ug/kg	873	148	SW846 8270E	4	11/21/2024 22:16	S7M	B
2,4,6-Trichlorophenol	ND	ND	ug/kg	873	148	SW846 8270E	4	11/21/2024 22:16	S7M	B
2,4-Dichlorophenol	ND	ND	ug/kg	873	148	SW846 8270E	4	11/21/2024 22:16	S7M	B
2,4-Dimethylphenol	ND	ND	ug/kg	873	148	SW846 8270E	4	11/21/2024 22:16	S7M	B
2,4-Dinitrophenol	ND	ND	ug/kg	1750	864	SW846 8270E	4	11/21/2024 22:16	S7M	B
2,4-Dinitrotoluene	ND	ND	ug/kg	437	87.3	SW846 8270E	4	11/21/2024 22:16	S7M	B
2,6-Dinitrotoluene	ND	ND	ug/kg	437	148	SW846 8270E	4	11/21/2024 22:16	S7M	B
2-Chloronaphthalene	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
2-Chlorophenol	ND	ND	ug/kg	873	148	SW846 8270E	4	11/21/2024 22:16	S7M	B
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	873	218	SW846 8270E	4	11/21/2024 22:16	S7M	B
2-Methylnaphthalene	277J	J	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
2-Nitroaniline	ND	ND	ug/kg	873	100	SW846 8270E	4	11/21/2024 22:16	S7M	B
2-Nitrophenol	ND	ND	ug/kg	873	148	SW846 8270E	4	11/21/2024 22:16	S7M	B
3,3-Dichlorobenzidine	ND	ND	ug/kg	873	135	SW846 8270E	4	11/21/2024 22:16	S7M	B
3-Nitroaniline	ND	ND	ug/kg	873	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
4-Bromophenyl-phenylether	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
4-Chloro-3-methylphenol	ND	ND	ug/kg	873	148	SW846 8270E	4	11/21/2024 22:16	S7M	B

Results

Client Sample ID	SB-223-12	Collected	11/18/2024 11:15
Lab Sample ID	3388338003	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	873	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
4-Chlorophenyl-phenylether	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
4-Nitroaniline	ND	ND	ug/kg	873	127	SW846 8270E	4	11/21/2024 22:16	S7M	B
4-Nitrophenol	ND	ND	ug/kg	873	148	SW846 8270E	4	11/21/2024 22:16	S7M	B
Acenaphthene	288		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Acenaphthylene	337		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Acetophenone	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Anthracene	758		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Atrazine	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Benzaldehyde	ND	ND	ug/kg	873	87.3	SW846 8270E	4	11/21/2024 22:16	S7M	B
Benzo(a)anthracene	1710		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Benzo(a)pyrene	1480		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Benzo(b)fluoranthene	1500		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Benzo(g,h,i)perylene	935		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Benzo(k)fluoranthene	1330		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Biphenyl	90.6J	J	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
bis(2-Chloroethyl)ether	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	437	96.0	SW846 8270E	4	11/21/2024 22:16	S7M	B
Butylbenzylphthalate	ND	ND,2	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Caprolactam	ND	ND	ug/kg	873	170	SW846 8270E	4	11/21/2024 22:16	S7M	B
Carbazole	431J	J	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Chrysene	1810		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Dibenzo(a,h)anthracene	324		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Dibenzofuran	350J	J	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Diethylphthalate	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Dimethylphthalate	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Di-n-Butylphthalate	ND	ND	ug/kg	437	153	SW846 8270E	4	11/21/2024 22:16	S7M	B
Di-n-Octylphthalate	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Fluoranthene	3960		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Fluorene	453		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Hexachlorobenzene	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Hexachlorobutadiene	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Hexachlorocyclopentadiene	ND	ND	ug/kg	873	131	SW846 8270E	4	11/21/2024 22:16	S7M	B
Hexachloroethane	ND	ND	ug/kg	437	100	SW846 8270E	4	11/21/2024 22:16	S7M	B
Indeno(1,2,3-cd)pyrene	956		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Isophorone	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
mp-Cresol	ND	ND	ug/kg	873	148	SW846 8270E	4	11/21/2024 22:16	S7M	B
Naphthalene	1850		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Nitrobenzene	ND	ND	ug/kg	437	148	SW846 8270E	4	11/21/2024 22:16	S7M	B
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
N-Nitrosodiphenylamine	ND	ND	ug/kg	437	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
o-Cresol	ND	ND	ug/kg	873	148	SW846 8270E	4	11/21/2024 22:16	S7M	B
Pentachlorophenol	ND	ND,3	ug/kg	873	214	SW846 8270E	4	11/21/2024 22:16	S7M	B
Phenanthrene	2760		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B
Phenol	ND	ND	ug/kg	873	148	SW846 8270E	4	11/21/2024 22:16	S7M	B

Results

Client Sample ID	SB-223-12	Collected	11/18/2024 11:15
Lab Sample ID	3388338003	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	2410		ug/kg	218	74.2	SW846 8270E	4	11/21/2024 22:16	S7M	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	19.6%	19 – 132	11/21/2024 22:16	
2-Fluorobiphenyl	321-60-8	77.6%	40 – 110	11/21/2024 22:16	
2-Fluorophenol	367-12-4	70.8%	26 – 116	11/21/2024 22:16	
Nitrobenzene-d5	4165-60-0	73.2%	38 – 112	11/21/2024 22:16	
Phenol-d5	4165-62-2	75.2%	35 – 111	11/21/2024 22:16	
Terphenyl-d14	98904-43-9	95.2%	45 – 126	11/21/2024 22:16	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	51.8	11.4	SW846 8260D	50	11/27/2024 23:24	BST	D
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	51.8	17.6	SW846 8260D	50	11/27/2024 23:24	BST	D
1,1,2-Trichloroethane	ND	ND	ug/kg	51.8	17.1	SW846 8260D	50	11/27/2024 23:24	BST	D
1,1-Dichloroethane	ND	ND	ug/kg	51.8	14.5	SW846 8260D	50	11/27/2024 23:24	BST	D
1,1-Dichloroethene	ND	ND	ug/kg	51.8	15.0	SW846 8260D	50	11/27/2024 23:24	BST	D
1,2,3-Trichlorobenzene	ND	ND,12	ug/kg	104	48.2	SW846 8260D	50	11/27/2024 23:24	BST	D
1,2,3-Trichloropropane	ND	ND	ug/kg	104	31.1	SW846 8260D	50	11/27/2024 23:24	BST	D
1,2,4-Trichlorobenzene	ND	ND	ug/kg	104	42.5	SW846 8260D	50	11/27/2024 23:24	BST	D
1,2,4-Trimethylbenzene	ND	ND	ug/kg	51.8	12.9	SW846 8260D	50	11/27/2024 23:24	BST	D
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	362	77.7	SW846 8260D	50	11/27/2024 23:24	BST	D
1,2-Dibromoethane	ND	ND	ug/kg	51.8	14.5	SW846 8260D	50	11/27/2024 23:24	BST	D
1,2-Dichlorobenzene	ND	ND	ug/kg	51.8	19.7	SW846 8260D	50	11/27/2024 23:24	BST	D
1,2-Dichloroethane	ND	ND	ug/kg	51.8	16.6	SW846 8260D	50	11/27/2024 23:24	BST	D
1,2-Dichloroethene, Total	ND	ND	ug/kg	104	23.3	SW846 8260D	50	11/27/2024 23:24	BST	D
1,2-Dichloropropane	ND	ND	ug/kg	51.8	12.4	SW846 8260D	50	11/27/2024 23:24	BST	D
1,3,5-Trimethylbenzene	ND	ND	ug/kg	51.8	10.4	SW846 8260D	50	11/27/2024 23:24	BST	D
1,3-Dichlorobenzene	ND	ND	ug/kg	51.8	12.9	SW846 8260D	50	11/27/2024 23:24	BST	D
1,4-Dichlorobenzene	ND	ND	ug/kg	51.8	14.0	SW846 8260D	50	11/27/2024 23:24	BST	D
2-Butanone	ND	ND,7	ug/kg	518	93.2	SW846 8260D	50	11/27/2024 23:24	BST	D
2-Hexanone	ND	ND	ug/kg	259	67.3	SW846 8260D	50	11/27/2024 23:24	BST	D
4-Methyl-2-Pentanone(MIBK)	ND	ND,11	ug/kg	259	77.7	SW846 8260D	50	11/27/2024 23:24	BST	D
Acetone	ND	ND	ug/kg	518	161	SW846 8260D	50	11/27/2024 23:24	BST	D
Benzene	ND	ND	ug/kg	51.8	11.9	SW846 8260D	50	11/27/2024 23:24	BST	D
Bromochloromethane	ND	ND	ug/kg	51.8	16.6	SW846 8260D	50	11/27/2024 23:24	BST	D
Bromodichloromethane	ND	ND	ug/kg	51.8	14.0	SW846 8260D	50	11/27/2024 23:24	BST	D
Bromoform	ND	ND,6	ug/kg	51.8	20.7	SW846 8260D	50	11/27/2024 23:24	BST	D
Bromomethane	48.1J	J	ug/kg	51.8	20.2	SW846 8260D	50	11/27/2024 23:24	BST	D
Carbon Disulfide	19.9J	J	ug/kg	51.8	11.9	SW846 8260D	50	11/27/2024 23:24	BST	D
Carbon Tetrachloride	ND	ND	ug/kg	51.8	16.1	SW846 8260D	50	11/27/2024 23:24	BST	D
Chlorobenzene	ND	ND	ug/kg	51.8	9.8	SW846 8260D	50	11/27/2024 23:24	BST	D
Chlorodibromomethane	ND	ND	ug/kg	51.8	23.3	SW846 8260D	50	11/27/2024 23:24	BST	D
Chloroethane	ND	ND	ug/kg	51.8	17.1	SW846 8260D	50	11/27/2024 23:24	BST	D

Results

Client Sample ID	SB-223-12	Collected	11/18/2024 11:15
Lab Sample ID	3388338003	Lab Receipt	11/19/2024 09:24

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	51.8	10.9	SW846 8260D	50	11/27/2024 23:24	BST	D
Chloromethane	ND	ND	ug/kg	51.8	16.1	SW846 8260D	50	11/27/2024 23:24	BST	D
cis-1,2-Dichloroethene	ND	ND	ug/kg	51.8	16.6	SW846 8260D	50	11/27/2024 23:24	BST	D
cis-1,3-Dichloropropene	ND	ND	ug/kg	51.8	16.1	SW846 8260D	50	11/27/2024 23:24	BST	D
Cyclohexane	ND	ND	ug/kg	51.8	15.0	SW846 8260D	50	11/27/2024 23:24	BST	D
Dichlorodifluoromethane	ND	ND	ug/kg	51.8	17.1	SW846 8260D	50	11/27/2024 23:24	BST	D
Ethylbenzene	ND	ND	ug/kg	51.8	17.6	SW846 8260D	50	11/27/2024 23:24	BST	D
Freon 113	ND	ND	ug/kg	51.8	13.5	SW846 8260D	50	11/27/2024 23:24	BST	D
Isopropylbenzene	ND	ND	ug/kg	51.8	11.4	SW846 8260D	50	11/27/2024 23:24	BST	D
Methyl acetate	2390	8	ug/kg	104	16.6	SW846 8260D	50	11/27/2024 23:24	BST	D
Methyl cyclohexane	41.6J	J,9,10	ug/kg	51.8	15.5	SW846 8260D	50	11/27/2024 23:24	BST	D
Methyl t-Butyl Ether	ND	ND	ug/kg	51.8	17.1	SW846 8260D	50	11/27/2024 23:24	BST	D
Methylene Chloride	ND	ND	ug/kg	51.8	23.3	SW846 8260D	50	11/27/2024 23:24	BST	D
mp-Xylene	ND	ND	ug/kg	104	26.9	SW846 8260D	50	11/27/2024 23:24	BST	D
o-Xylene	ND	ND	ug/kg	51.8	17.1	SW846 8260D	50	11/27/2024 23:24	BST	D
Styrene	ND	ND	ug/kg	51.8	12.4	SW846 8260D	50	11/27/2024 23:24	BST	D
Tetrachloroethene	ND	ND	ug/kg	51.8	18.1	SW846 8260D	50	11/27/2024 23:24	BST	D
Toluene	14.2J	J	ug/kg	51.8	11.9	SW846 8260D	50	11/27/2024 23:24	BST	D
Total Xylenes	ND	ND	ug/kg	155	34.2	SW846 8260D	50	11/27/2024 23:24	BST	D
trans-1,2-Dichloroethene	ND	ND	ug/kg	51.8	13.5	SW846 8260D	50	11/27/2024 23:24	BST	D
trans-1,3-Dichloropropene	ND	ND	ug/kg	51.8	15.0	SW846 8260D	50	11/27/2024 23:24	BST	D
Trichloroethene	ND	ND	ug/kg	51.8	17.1	SW846 8260D	50	11/27/2024 23:24	BST	D
Trichlorofluoromethane	ND	ND	ug/kg	51.8	12.4	SW846 8260D	50	11/27/2024 23:24	BST	D
Vinyl Chloride	ND	ND	ug/kg	51.8	15.5	SW846 8260D	50	11/27/2024 23:24	BST	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	93.7%	71 – 146	11/27/2024 23:24	
4-Bromofluorobenzene	460-00-4	104%	46 – 138	11/27/2024 23:24	
Dibromofluoromethane	1868-53-7	87.4%	42 – 143	11/27/2024 23:24	
Toluene-d8	2037-26-5	96.5%	54 – 141	11/27/2024 23:24	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	11.9		%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B
Total Solids	88.1		%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B

Results

Client Sample ID	SB-222-6	Collected	11/18/2024 11:50
Lab Sample ID	3388338004	Lab Receipt	11/19/2024 09:24

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	58900		mg/kg	51.4	17.1	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Antimony, Total	ND	ND	mg/kg	10.3	3.4	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Arsenic, Total	ND	ND	mg/kg	10.3	3.4	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Barium, Total	558		mg/kg	5.1	1.7	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Beryllium, Total	10.2		mg/kg	5.1	1.7	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Cadmium, Total	1.6J	J	mg/kg	2.6	0.86	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Calcium, Total	188000		mg/kg	51.4	17.1	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Chromium, Total	4.2J	J	mg/kg	5.1	1.7	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Cobalt, Total	ND	ND	mg/kg	5.1	1.7	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Copper, Total	ND	ND	mg/kg	10.3	3.4	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Iron, Total	2960		mg/kg	51.4	17.1	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Lead, Total	ND	ND	mg/kg	10.3	3.4	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Magnesium, Total	45000		mg/kg	51.4	17.1	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Manganese, Total	1860		mg/kg	5.1	1.7	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Mercury, Total	ND	ND	mg/kg	0.049	0.016	SW846 7471B	1	12/03/2024 12:11	AXW	B
Nickel, Total	ND	ND	mg/kg	10.3	3.4	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Potassium, Total	3850		mg/kg	257	85.8	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Selenium, Total	14.5J	J	mg/kg	25.7	8.6	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Silver, Total	ND	ND	mg/kg	2.6	0.86	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Sodium, Total	861		mg/kg	257	85.8	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Thallium, Total	ND	ND	mg/kg	15.4	5.1	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Vanadium, Total	2.4J	J	mg/kg	5.1	1.7	SW846 6010C	5	11/25/2024 13:25	MSY	B1
Zinc, Total	ND	ND	mg/kg	10.3	3.4	SW846 6010C	5	11/25/2024 13:25	MSY	B1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
1,4-Dioxane	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	736	125	SW846 8270E	4	11/21/2024 21:50	S7M	B
2,4,5-Trichlorophenol	ND	ND	ug/kg	736	125	SW846 8270E	4	11/21/2024 21:50	S7M	B
2,4,6-Trichlorophenol	ND	ND	ug/kg	736	125	SW846 8270E	4	11/21/2024 21:50	S7M	B
2,4-Dichlorophenol	ND	ND	ug/kg	736	125	SW846 8270E	4	11/21/2024 21:50	S7M	B
2,4-Dimethylphenol	ND	ND	ug/kg	736	125	SW846 8270E	4	11/21/2024 21:50	S7M	B
2,4-Dinitrophenol	ND	ND	ug/kg	1470	729	SW846 8270E	4	11/21/2024 21:50	S7M	B
2,4-Dinitrotoluene	ND	ND	ug/kg	368	73.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
2,6-Dinitrotoluene	ND	ND	ug/kg	368	125	SW846 8270E	4	11/21/2024 21:50	S7M	B
2-Chloronaphthalene	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
2-Chlorophenol	ND	ND	ug/kg	736	125	SW846 8270E	4	11/21/2024 21:50	S7M	B
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	736	184	SW846 8270E	4	11/21/2024 21:50	S7M	B
2-Methylnaphthalene	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
2-Nitroaniline	ND	ND	ug/kg	736	84.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
2-Nitrophenol	ND	ND	ug/kg	736	125	SW846 8270E	4	11/21/2024 21:50	S7M	B
3,3-Dichlorobenzidine	ND	ND	ug/kg	736	114	SW846 8270E	4	11/21/2024 21:50	S7M	B
3-Nitroaniline	ND	ND	ug/kg	736	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
4-Bromophenyl-phenylether	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
4-Chloro-3-methylphenol	ND	ND	ug/kg	736	125	SW846 8270E	4	11/21/2024 21:50	S7M	B

Results

Client Sample ID	SB-222-6	Collected	11/18/2024 11:50
Lab Sample ID	3388338004	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	736	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
4-Chlorophenyl-phenylether	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
4-Nitroaniline	ND	ND	ug/kg	736	107	SW846 8270E	4	11/21/2024 21:50	S7M	B
4-Nitrophenol	ND	ND	ug/kg	736	125	SW846 8270E	4	11/21/2024 21:50	S7M	B
Acenaphthene	ND	ND	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Acenaphthylene	ND	ND	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Acetophenone	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Anthracene	ND	ND	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Atrazine	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Benzaldehyde	ND	ND	ug/kg	736	73.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Benzo(a)anthracene	ND	ND	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Benzo(a)pyrene	ND	ND	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Benzo(b)fluoranthene	ND	ND	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Benzo(g,h,i)perylene	ND	ND	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Benzo(k)fluoranthene	ND	ND	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Biphenyl	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
bis(2-Chloroethyl)ether	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	368	81.0	SW846 8270E	4	11/21/2024 21:50	S7M	B
Butylbenzylphthalate	ND	ND,2	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Caprolactam	ND	ND	ug/kg	736	144	SW846 8270E	4	11/21/2024 21:50	S7M	B
Carbazole	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Chrysene	ND	ND	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Dibenzo(a,h)anthracene	ND	ND	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Dibenzofuran	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Diethylphthalate	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Dimethylphthalate	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Di-n-Butylphthalate	ND	ND	ug/kg	368	129	SW846 8270E	4	11/21/2024 21:50	S7M	B
Di-n-Octylphthalate	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Fluoranthene	89.1J	J	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Fluorene	ND	ND	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Hexachlorobenzene	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Hexachlorobutadiene	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Hexachlorocyclopentadiene	ND	ND	ug/kg	736	110	SW846 8270E	4	11/21/2024 21:50	S7M	B
Hexachloroethane	ND	ND	ug/kg	368	84.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Indeno(1,2,3-cd)pyrene	ND	ND	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Isophorone	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
mp-Cresol	ND	ND	ug/kg	736	125	SW846 8270E	4	11/21/2024 21:50	S7M	B
Naphthalene	91.1J	J	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Nitrobenzene	ND	ND	ug/kg	368	125	SW846 8270E	4	11/21/2024 21:50	S7M	B
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
N-Nitrosodiphenylamine	ND	ND	ug/kg	368	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
o-Cresol	ND	ND	ug/kg	736	125	SW846 8270E	4	11/21/2024 21:50	S7M	B
Pentachlorophenol	ND	ND,3	ug/kg	736	180	SW846 8270E	4	11/21/2024 21:50	S7M	B
Phenanthrene	108J	J	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B
Phenol	ND	ND	ug/kg	736	125	SW846 8270E	4	11/21/2024 21:50	S7M	B

Results

Client Sample ID	SB-222-6	Collected	11/18/2024 11:50
Lab Sample ID	3388338004	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	67.9J	J	ug/kg	184	62.6	SW846 8270E	4	11/21/2024 21:50	S7M	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	20.7%	19 – 132	11/21/2024 21:50	
2-Fluorobiphenyl	321-60-8	75.6%	40 – 110	11/21/2024 21:50	
2-Fluorophenol	367-12-4	65.6%	26 – 116	11/21/2024 21:50	
Nitrobenzene-d5	4165-60-0	72%	38 – 112	11/21/2024 21:50	
Phenol-d5	4165-62-2	70.8%	35 – 111	11/21/2024 21:50	
Terphenyl-d14	98904-43-9	94%	45 – 126	11/21/2024 21:50	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	51.4	11.3	SW846 8260D	50	11/27/2024 23:44	BST	D
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	51.4	17.5	SW846 8260D	50	11/27/2024 23:44	BST	D
1,1,2-Trichloroethane	ND	ND	ug/kg	51.4	17.0	SW846 8260D	50	11/27/2024 23:44	BST	D
1,1-Dichloroethane	ND	ND	ug/kg	51.4	14.4	SW846 8260D	50	11/27/2024 23:44	BST	D
1,1-Dichloroethene	ND	ND	ug/kg	51.4	14.9	SW846 8260D	50	11/27/2024 23:44	BST	D
1,2,3-Trichlorobenzene	ND	ND,12	ug/kg	103	47.8	SW846 8260D	50	11/27/2024 23:44	BST	D
1,2,3-Trichloropropane	ND	ND	ug/kg	103	30.8	SW846 8260D	50	11/27/2024 23:44	BST	D
1,2,4-Trichlorobenzene	ND	ND	ug/kg	103	42.2	SW846 8260D	50	11/27/2024 23:44	BST	D
1,2,4-Trimethylbenzene	ND	ND	ug/kg	51.4	12.9	SW846 8260D	50	11/27/2024 23:44	BST	D
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	360	77.1	SW846 8260D	50	11/27/2024 23:44	BST	D
1,2-Dibromoethane	ND	ND	ug/kg	51.4	14.4	SW846 8260D	50	11/27/2024 23:44	BST	D
1,2-Dichlorobenzene	ND	ND	ug/kg	51.4	19.5	SW846 8260D	50	11/27/2024 23:44	BST	D
1,2-Dichloroethane	ND	ND	ug/kg	51.4	16.4	SW846 8260D	50	11/27/2024 23:44	BST	D
1,2-Dichloroethene, Total	ND	ND	ug/kg	103	23.1	SW846 8260D	50	11/27/2024 23:44	BST	D
1,2-Dichloropropane	ND	ND	ug/kg	51.4	12.3	SW846 8260D	50	11/27/2024 23:44	BST	D
1,3,5-Trimethylbenzene	ND	ND	ug/kg	51.4	10.3	SW846 8260D	50	11/27/2024 23:44	BST	D
1,3-Dichlorobenzene	ND	ND	ug/kg	51.4	12.9	SW846 8260D	50	11/27/2024 23:44	BST	D
1,4-Dichlorobenzene	ND	ND	ug/kg	51.4	13.9	SW846 8260D	50	11/27/2024 23:44	BST	D
2-Butanone	ND	ND,7	ug/kg	514	92.5	SW846 8260D	50	11/27/2024 23:44	BST	D
2-Hexanone	ND	ND	ug/kg	257	66.8	SW846 8260D	50	11/27/2024 23:44	BST	D
4-Methyl-2-Pentanone(MIBK)	ND	ND,11	ug/kg	257	77.1	SW846 8260D	50	11/27/2024 23:44	BST	D
Acetone	ND	ND	ug/kg	514	159	SW846 8260D	50	11/27/2024 23:44	BST	D
Benzene	80.4		ug/kg	51.4	11.8	SW846 8260D	50	11/27/2024 23:44	BST	D
Bromochloromethane	ND	ND	ug/kg	51.4	16.4	SW846 8260D	50	11/27/2024 23:44	BST	D
Bromodichloromethane	ND	ND	ug/kg	51.4	13.9	SW846 8260D	50	11/27/2024 23:44	BST	D
Bromoform	ND	ND,6	ug/kg	51.4	20.6	SW846 8260D	50	11/27/2024 23:44	BST	D
Bromomethane	41.7J	J	ug/kg	51.4	20.0	SW846 8260D	50	11/27/2024 23:44	BST	D
Carbon Disulfide	15.3J	J	ug/kg	51.4	11.8	SW846 8260D	50	11/27/2024 23:44	BST	D
Carbon Tetrachloride	ND	ND	ug/kg	51.4	15.9	SW846 8260D	50	11/27/2024 23:44	BST	D
Chlorobenzene	ND	ND	ug/kg	51.4	9.8	SW846 8260D	50	11/27/2024 23:44	BST	D
Chlorodibromomethane	ND	ND	ug/kg	51.4	23.1	SW846 8260D	50	11/27/2024 23:44	BST	D
Chloroethane	ND	ND	ug/kg	51.4	17.0	SW846 8260D	50	11/27/2024 23:44	BST	D

Results

Client Sample ID	SB-222-6	Collected	11/18/2024 11:50
Lab Sample ID	3388338004	Lab Receipt	11/19/2024 09:24

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	51.4	10.8	SW846 8260D	50	11/27/2024 23:44	BST	D
Chloromethane	ND	ND	ug/kg	51.4	15.9	SW846 8260D	50	11/27/2024 23:44	BST	D
cis-1,2-Dichloroethene	ND	ND	ug/kg	51.4	16.4	SW846 8260D	50	11/27/2024 23:44	BST	D
cis-1,3-Dichloropropene	ND	ND	ug/kg	51.4	15.9	SW846 8260D	50	11/27/2024 23:44	BST	D
Cyclohexane	ND	ND	ug/kg	51.4	14.9	SW846 8260D	50	11/27/2024 23:44	BST	D
Dichlorodifluoromethane	ND	ND	ug/kg	51.4	17.0	SW846 8260D	50	11/27/2024 23:44	BST	D
Ethylbenzene	ND	ND	ug/kg	51.4	17.5	SW846 8260D	50	11/27/2024 23:44	BST	D
Freon 113	ND	ND	ug/kg	51.4	13.4	SW846 8260D	50	11/27/2024 23:44	BST	D
Isopropylbenzene	ND	ND	ug/kg	51.4	11.3	SW846 8260D	50	11/27/2024 23:44	BST	D
Methyl acetate	224	8	ug/kg	103	16.4	SW846 8260D	50	11/27/2024 23:44	BST	D
Methyl cyclohexane	ND	ND	ug/kg	51.4	15.4	SW846 8260D	50	11/27/2024 23:44	BST	D
Methyl t-Butyl Ether	ND	ND	ug/kg	51.4	17.0	SW846 8260D	50	11/27/2024 23:44	BST	D
Methylene Chloride	ND	ND	ug/kg	51.4	23.1	SW846 8260D	50	11/27/2024 23:44	BST	D
mp-Xylene	55.9J	J	ug/kg	103	26.7	SW846 8260D	50	11/27/2024 23:44	BST	D
o-Xylene	ND	ND	ug/kg	51.4	17.0	SW846 8260D	50	11/27/2024 23:44	BST	D
Styrene	ND	ND	ug/kg	51.4	12.3	SW846 8260D	50	11/27/2024 23:44	BST	D
Tetrachloroethene	ND	ND	ug/kg	51.4	18.0	SW846 8260D	50	11/27/2024 23:44	BST	D
Toluene	26.2J	J	ug/kg	51.4	11.8	SW846 8260D	50	11/27/2024 23:44	BST	D
Total Xylenes	69.2J	J	ug/kg	154	33.9	SW846 8260D	50	11/27/2024 23:44	BST	D
trans-1,2-Dichloroethene	ND	ND	ug/kg	51.4	13.4	SW846 8260D	50	11/27/2024 23:44	BST	D
trans-1,3-Dichloropropene	ND	ND	ug/kg	51.4	14.9	SW846 8260D	50	11/27/2024 23:44	BST	D
Trichloroethene	ND	ND	ug/kg	51.4	17.0	SW846 8260D	50	11/27/2024 23:44	BST	D
Trichlorofluoromethane	ND	ND	ug/kg	51.4	12.3	SW846 8260D	50	11/27/2024 23:44	BST	D
Vinyl Chloride	ND	ND	ug/kg	51.4	15.4	SW846 8260D	50	11/27/2024 23:44	BST	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	91.1%	71 – 146	11/27/2024 23:44	
4-Bromofluorobenzene	460-00-4	101%	46 – 138	11/27/2024 23:44	
Dibromofluoromethane	1868-53-7	85.5%	42 – 143	11/27/2024 23:44	
Toluene-d8	2037-26-5	94.2%	54 – 141	11/27/2024 23:44	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	7.9		%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B
Total Solids	92.1		%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B

Results

Client Sample ID	SB-224-4	Collected	11/18/2024 14:45
Lab Sample ID	3388338005	Lab Receipt	11/19/2024 09:24

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	64400	16	mg/kg	52.7	17.6	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Antimony, Total	ND	ND,17	mg/kg	10.5	3.5	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Arsenic, Total	ND	ND,18,19,20	mg/kg	10.5	3.5	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Barium, Total	651	18,21,22	mg/kg	5.3	1.8	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Beryllium, Total	12.5		mg/kg	5.3	1.8	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Cadmium, Total	1.8J	J	mg/kg	2.6	0.88	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Calcium, Total	225000	16	mg/kg	52.7	17.6	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Chromium, Total	9.3		mg/kg	5.3	1.8	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Cobalt, Total	ND	ND	mg/kg	5.3	1.8	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Copper, Total	5.5J	J	mg/kg	10.5	3.5	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Iron, Total	2190		mg/kg	52.7	17.6	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Lead, Total	ND	ND	mg/kg	10.5	3.5	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Magnesium, Total	41400	16	mg/kg	52.7	17.6	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Manganese, Total	2650	16	mg/kg	5.3	1.8	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Mercury, Total	ND	ND	mg/kg	0.051	0.016	SW846 7471B	1	12/05/2024 11:09	AJN	B2
Nickel, Total	ND	ND	mg/kg	10.5	3.5	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Potassium, Total	4860	18,23,24	mg/kg	264	88.1	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Selenium, Total	20.5J	J	mg/kg	26.4	8.8	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Silver, Total	ND	ND	mg/kg	2.6	0.88	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Sodium, Total	1160	25	mg/kg	264	88.1	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Thallium, Total	ND	ND,26	mg/kg	15.8	5.3	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Vanadium, Total	8.3		mg/kg	5.3	1.8	SW846 6010C	5	11/25/2024 13:05	MSY	B1
Zinc, Total	ND	ND,27	mg/kg	10.5	3.5	SW846 6010C	5	11/25/2024 13:05	MSY	B1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
1,4-Dioxane	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	831	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
2,4,5-Trichlorophenol	ND	ND	ug/kg	831	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
2,4,6-Trichlorophenol	ND	ND	ug/kg	831	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
2,4-Dichlorophenol	ND	ND	ug/kg	831	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
2,4-Dimethylphenol	ND	ND	ug/kg	831	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
2,4-Dinitrophenol	ND	ND	ug/kg	1660	823	SW846 8270E	4	11/22/2024 20:22	S7M	B
2,4-Dinitrotoluene	ND	ND	ug/kg	415	83.1	SW846 8270E	4	11/22/2024 20:22	S7M	B
2,6-Dinitrotoluene	ND	ND	ug/kg	415	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
2-Chloronaphthalene	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
2-Chlorophenol	ND	ND	ug/kg	831	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	831	208	SW846 8270E	4	11/22/2024 20:22	S7M	B
2-Methylnaphthalene	822		ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
2-Nitroaniline	ND	ND	ug/kg	831	95.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
2-Nitrophenol	ND	ND	ug/kg	831	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
3,3-Dichlorobenzidine	ND	ND	ug/kg	831	129	SW846 8270E	4	11/22/2024 20:22	S7M	B
3-Nitroaniline	ND	ND	ug/kg	831	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
4-Bromophenyl-phenylether	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B

Results

Client Sample ID	SB-224-4	Collected	11/18/2024 14:45
Lab Sample ID	3388338005	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloro-3-methylphenol	ND	ND	ug/kg	831	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
4-Chloroaniline	ND	ND	ug/kg	831	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
4-Chlorophenyl-phenylether	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
4-Nitroaniline	ND	ND	ug/kg	831	120	SW846 8270E	4	11/22/2024 20:22	S7M	B
4-Nitrophenol	ND	ND,15	ug/kg	831	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
Acenaphthene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Acenaphthylene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Acetophenone	439		ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Anthracene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Atrazine	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Benzaldehyde	ND	ND	ug/kg	831	83.1	SW846 8270E	4	11/22/2024 20:22	S7M	B
Benzo(a)anthracene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Benzo(a)pyrene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Benzo(b)fluoranthene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Benzo(g,h,i)perylene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Benzo(k)fluoranthene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Biphenyl	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
bis(2-Chloroethyl)ether	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
bis(2-Chloroisopropyl)ether	ND	ND,13	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	415	91.4	SW846 8270E	4	11/22/2024 20:22	S7M	B
Butylbenzylphthalate	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Caprolactam	ND	ND	ug/kg	831	162	SW846 8270E	4	11/22/2024 20:22	S7M	B
Carbazole	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Chrysene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Dibenzo(a,h)anthracene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Dibenzofuran	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Diethylphthalate	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Dimethylphthalate	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Di-n-Butylphthalate	ND	ND	ug/kg	415	145	SW846 8270E	4	11/22/2024 20:22	S7M	B
Di-n-Octylphthalate	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Fluoranthene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Fluorene	5400		ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Hexachlorobenzene	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Hexachlorobutadiene	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Hexachlorocyclopentadiene	ND	ND	ug/kg	831	125	SW846 8270E	4	11/22/2024 20:22	S7M	B
Hexachloroethane	ND	ND	ug/kg	415	95.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Indeno(1,2,3-cd)pyrene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Isophorone	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
mp-Cresol	ND	ND,14	ug/kg	831	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
Naphthalene	15500		ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
Nitrobenzene	ND	ND	ug/kg	415	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
N-Nitrosodiphenylamine	ND	ND	ug/kg	415	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B
o-Cresol	ND	ND	ug/kg	831	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
Pentachlorophenol	ND	ND	ug/kg	831	204	SW846 8270E	4	11/22/2024 20:22	S7M	B
Phenanthrene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B

Results

Client Sample ID	SB-224-4	Collected	11/18/2024 14:45
Lab Sample ID	3388338005	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Phenol	ND	ND	ug/kg	831	141	SW846 8270E	4	11/22/2024 20:22	S7M	B
Pyrene	ND	ND	ug/kg	208	70.6	SW846 8270E	4	11/22/2024 20:22	S7M	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	23.2%	19 – 132	11/22/2024 20:22	
2-Fluorobiphenyl	321-60-8	63.8%	40 – 110	11/22/2024 20:22	
2-Fluorophenol	367-12-4	48.1%	26 – 116	11/22/2024 20:22	
Nitrobenzene-d5	4165-60-0	59.4%	38 – 112	11/22/2024 20:22	
Phenol-d5	4165-62-2	57.8%	35 – 111	11/22/2024 20:22	
Terphenyl-d14	98904-43-9	107%	45 – 126	11/22/2024 20:22	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	671	148	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	671	228	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,1,2-Trichloroethane	ND	ND	ug/kg	671	222	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,1-Dichloroethane	ND	ND	ug/kg	671	188	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,1-Dichloroethene	ND	ND	ug/kg	671	195	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,2,3-Trichlorobenzene	ND	ND	ug/kg	1340	624	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,2,3-Trichloropropane	ND	ND	ug/kg	1340	403	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,2,4-Trichlorobenzene	ND	ND	ug/kg	1340	551	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,2,4-Trimethylbenzene	5380		ug/kg	671	168	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	4700	1010	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,2-Dibromoethane	ND	ND	ug/kg	671	188	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,2-Dichlorobenzene	ND	ND	ug/kg	671	255	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,2-Dichloroethane	ND	ND	ug/kg	671	215	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,2-Dichloroethene, Total	ND	ND	ug/kg	1340	302	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,2-Dichloropropane	ND	ND	ug/kg	671	161	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,3,5-Trimethylbenzene	3810		ug/kg	671	134	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,3-Dichlorobenzene	ND	ND	ug/kg	671	168	SW846 8260D	500	11/26/2024 17:52	JTH	D
1,4-Dichlorobenzene	ND	ND	ug/kg	671	181	SW846 8260D	500	11/26/2024 17:52	JTH	D
2-Butanone	ND	ND	ug/kg	6710	1210	SW846 8260D	500	11/26/2024 17:52	JTH	D
2-Hexanone	ND	ND	ug/kg	3360	873	SW846 8260D	500	11/26/2024 17:52	JTH	D
4-Methyl-2-Pentanone(MIBK)	ND	ND,1	ug/kg	3360	1010	SW846 8260D	500	11/26/2024 17:52	JTH	D
Acetone	ND	ND	ug/kg	6710	2080	SW846 8260D	500	11/26/2024 17:52	JTH	D
Benzene	1030		ug/kg	671	154	SW846 8260D	500	11/26/2024 17:52	JTH	D
Bromochloromethane	ND	ND	ug/kg	671	215	SW846 8260D	500	11/26/2024 17:52	JTH	D
Bromodichloromethane	ND	ND	ug/kg	671	181	SW846 8260D	500	11/26/2024 17:52	JTH	D
Bromoform	ND	ND	ug/kg	671	269	SW846 8260D	500	11/26/2024 17:52	JTH	D
Bromomethane	ND	ND	ug/kg	671	262	SW846 8260D	500	11/26/2024 17:52	JTH	D
Carbon Disulfide	323J	J	ug/kg	671	154	SW846 8260D	500	11/26/2024 17:52	JTH	D
Carbon Tetrachloride	ND	ND	ug/kg	671	208	SW846 8260D	500	11/26/2024 17:52	JTH	D
Chlorobenzene	ND	ND	ug/kg	671	128	SW846 8260D	500	11/26/2024 17:52	JTH	D
Chlorodibromomethane	ND	ND	ug/kg	671	302	SW846 8260D	500	11/26/2024 17:52	JTH	D

Results

Client Sample ID	SB-224-4	Collected	11/18/2024 14:45
Lab Sample ID	3388338005	Lab Receipt	11/19/2024 09:24

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroethane	ND	ND	ug/kg	671	222	SW846 8260D	500	11/26/2024 17:52	JTH	D
Chloroform	ND	ND	ug/kg	671	141	SW846 8260D	500	11/26/2024 17:52	JTH	D
Chloromethane	ND	ND	ug/kg	671	208	SW846 8260D	500	11/26/2024 17:52	JTH	D
cis-1,2-Dichloroethene	ND	ND	ug/kg	671	215	SW846 8260D	500	11/26/2024 17:52	JTH	D
cis-1,3-Dichloropropene	ND	ND	ug/kg	671	208	SW846 8260D	500	11/26/2024 17:52	JTH	D
Cyclohexane	ND	ND	ug/kg	671	195	SW846 8260D	500	11/26/2024 17:52	JTH	D
Dichlorodifluoromethane	ND	ND	ug/kg	671	222	SW846 8260D	500	11/26/2024 17:52	JTH	D
Ethylbenzene	ND	ND	ug/kg	671	228	SW846 8260D	500	11/26/2024 17:52	JTH	D
Freon 113	ND	ND	ug/kg	671	175	SW846 8260D	500	11/26/2024 17:52	JTH	D
Isopropylbenzene	ND	ND	ug/kg	671	148	SW846 8260D	500	11/26/2024 17:52	JTH	D
Methyl acetate	732J	J	ug/kg	1340	215	SW846 8260D	500	11/26/2024 17:52	JTH	D
Methyl cyclohexane	ND	ND	ug/kg	671	201	SW846 8260D	500	11/26/2024 17:52	JTH	D
Methyl t-Butyl Ether	ND	ND	ug/kg	671	222	SW846 8260D	500	11/26/2024 17:52	JTH	D
Methylene Chloride	ND	ND	ug/kg	671	302	SW846 8260D	500	11/26/2024 17:52	JTH	D
mp-Xylene	11100		ug/kg	1340	349	SW846 8260D	500	11/26/2024 17:52	JTH	D
o-Xylene	3820		ug/kg	671	222	SW846 8260D	500	11/26/2024 17:52	JTH	D
Styrene	ND	ND	ug/kg	671	161	SW846 8260D	500	11/26/2024 17:52	JTH	D
Tetrachloroethene	ND	ND	ug/kg	671	235	SW846 8260D	500	11/26/2024 17:52	JTH	D
Toluene	2700		ug/kg	671	154	SW846 8260D	500	11/26/2024 17:52	JTH	D
Total Xylenes	14900		ug/kg	2010	443	SW846 8260D	500	11/26/2024 17:52	JTH	D
trans-1,2-Dichloroethene	ND	ND	ug/kg	671	175	SW846 8260D	500	11/26/2024 17:52	JTH	D
trans-1,3-Dichloropropene	ND	ND	ug/kg	671	195	SW846 8260D	500	11/26/2024 17:52	JTH	D
Trichloroethene	ND	ND	ug/kg	671	222	SW846 8260D	500	11/26/2024 17:52	JTH	D
Trichlorofluoromethane	ND	ND	ug/kg	671	161	SW846 8260D	500	11/26/2024 17:52	JTH	D
Vinyl Chloride	ND	ND	ug/kg	671	201	SW846 8260D	500	11/26/2024 17:52	JTH	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.9%	71 – 146	11/26/2024 17:52	
4-Bromofluorobenzene	460-00-4	89.7%	46 – 138	11/26/2024 17:52	
Dibromofluoromethane	1868-53-7	87.8%	42 – 143	11/26/2024 17:52	
Toluene-d8	2037-26-5	82.2%	54 – 141	11/26/2024 17:52	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	9.2		%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B
Total Solids	90.8		%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B

Results

Client Sample ID	SB-224-6	Collected	11/18/2024 14:50
Lab Sample ID	3388338006	Lab Receipt	11/19/2024 09:24

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	58800		mg/kg	52.1	17.3	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Antimony, Total	ND	ND	mg/kg	10.4	3.5	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Arsenic, Total	ND	ND	mg/kg	10.4	3.5	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Barium, Total	640		mg/kg	5.2	1.7	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Beryllium, Total	11.1		mg/kg	5.2	1.7	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Cadmium, Total	1.7J	J	mg/kg	2.6	0.87	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Calcium, Total	213000		mg/kg	52.1	17.3	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Chromium, Total	7.8		mg/kg	5.2	1.7	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Cobalt, Total	ND	ND	mg/kg	5.2	1.7	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Copper, Total	7.3J	J	mg/kg	10.4	3.5	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Iron, Total	1590		mg/kg	52.1	17.3	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Lead, Total	ND	ND	mg/kg	10.4	3.5	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Magnesium, Total	42000		mg/kg	52.1	17.3	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Manganese, Total	2310		mg/kg	5.2	1.7	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Mercury, Total	ND	ND	mg/kg	0.053	0.017	SW846 7471B	1	12/03/2024 11:49	AXW	B
Nickel, Total	ND	ND	mg/kg	10.4	3.5	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Potassium, Total	4180		mg/kg	260	87.0	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Selenium, Total	15.6J	J	mg/kg	26.0	8.7	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Silver, Total	ND	ND	mg/kg	2.6	0.87	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Sodium, Total	1100		mg/kg	260	87.0	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Thallium, Total	ND	ND	mg/kg	15.6	5.2	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Vanadium, Total	5.4		mg/kg	5.2	1.7	SW846 6010C	5	11/25/2024 13:17	MSY	B1
Zinc, Total	ND	ND	mg/kg	10.4	3.5	SW846 6010C	5	11/25/2024 13:17	MSY	B1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
1,4-Dioxane	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	862	147	SW846 8270E	4	11/22/2024 20:48	S7M	B
2,4,5-Trichlorophenol	ND	ND	ug/kg	862	147	SW846 8270E	4	11/22/2024 20:48	S7M	B
2,4,6-Trichlorophenol	ND	ND	ug/kg	862	147	SW846 8270E	4	11/22/2024 20:48	S7M	B
2,4-Dichlorophenol	ND	ND	ug/kg	862	147	SW846 8270E	4	11/22/2024 20:48	S7M	B
2,4-Dimethylphenol	ND	ND	ug/kg	862	147	SW846 8270E	4	11/22/2024 20:48	S7M	B
2,4-Dinitrophenol	ND	ND	ug/kg	1720	853	SW846 8270E	4	11/22/2024 20:48	S7M	B
2,4-Dinitrotoluene	ND	ND	ug/kg	431	86.2	SW846 8270E	4	11/22/2024 20:48	S7M	B
2,6-Dinitrotoluene	ND	ND	ug/kg	431	147	SW846 8270E	4	11/22/2024 20:48	S7M	B
2-Chloronaphthalene	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
2-Chlorophenol	ND	ND	ug/kg	862	147	SW846 8270E	4	11/22/2024 20:48	S7M	B
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	862	215	SW846 8270E	4	11/22/2024 20:48	S7M	B
2-Methylnaphthalene	73.8J	J	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
2-Nitroaniline	ND	ND	ug/kg	862	99.1	SW846 8270E	4	11/22/2024 20:48	S7M	B
2-Nitrophenol	ND	ND	ug/kg	862	147	SW846 8270E	4	11/22/2024 20:48	S7M	B
3,3-Dichlorobenzidine	ND	ND	ug/kg	862	134	SW846 8270E	4	11/22/2024 20:48	S7M	B
3-Nitroaniline	ND	ND	ug/kg	862	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
4-Bromophenyl-phenylether	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
4-Chloro-3-methylphenol	ND	ND	ug/kg	862	147	SW846 8270E	4	11/22/2024 20:48	S7M	B

Results

Client Sample ID	SB-224-6	Collected	11/18/2024 14:50
Lab Sample ID	3388338006	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	862	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
4-Chlorophenyl-phenylether	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
4-Nitroaniline	ND	ND	ug/kg	862	125	SW846 8270E	4	11/22/2024 20:48	S7M	B
4-Nitrophenol	ND	ND,15	ug/kg	862	147	SW846 8270E	4	11/22/2024 20:48	S7M	B
Acenaphthene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Acenaphthylene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Acetophenone	154J	J	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Anthracene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Atrazine	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Benzaldehyde	ND	ND	ug/kg	862	86.2	SW846 8270E	4	11/22/2024 20:48	S7M	B
Benzo(a)anthracene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Benzo(a)pyrene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Benzo(b)fluoranthene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Benzo(g,h,i)perylene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Benzo(k)fluoranthene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Biphenyl	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
bis(2-Chloroethyl)ether	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
bis(2-Chloroisopropyl)ether	ND	ND,13	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	431	94.8	SW846 8270E	4	11/22/2024 20:48	S7M	B
Butylbenzylphthalate	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Caprolactam	ND	ND	ug/kg	862	168	SW846 8270E	4	11/22/2024 20:48	S7M	B
Carbazole	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Chrysene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Dibenzo(a,h)anthracene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Dibenzofuran	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Diethylphthalate	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Dimethylphthalate	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Di-n-Butylphthalate	ND	ND	ug/kg	431	151	SW846 8270E	4	11/22/2024 20:48	S7M	B
Di-n-Octylphthalate	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Fluoranthene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Fluorene	753		ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Hexachlorobenzene	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Hexachlorobutadiene	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Hexachlorocyclopentadiene	ND	ND	ug/kg	862	129	SW846 8270E	4	11/22/2024 20:48	S7M	B
Hexachloroethane	ND	ND	ug/kg	431	99.1	SW846 8270E	4	11/22/2024 20:48	S7M	B
Indeno(1,2,3-cd)pyrene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Isophorone	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
mp-Cresol	ND	ND,14	ug/kg	862	147	SW846 8270E	4	11/22/2024 20:48	S7M	B
Naphthalene	714		ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Nitrobenzene	ND	ND	ug/kg	431	147	SW846 8270E	4	11/22/2024 20:48	S7M	B
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
N-Nitrosodiphenylamine	ND	ND	ug/kg	431	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
o-Cresol	ND	ND	ug/kg	862	147	SW846 8270E	4	11/22/2024 20:48	S7M	B
Pentachlorophenol	ND	ND	ug/kg	862	211	SW846 8270E	4	11/22/2024 20:48	S7M	B
Phenanthrene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B
Phenol	ND	ND	ug/kg	862	147	SW846 8270E	4	11/22/2024 20:48	S7M	B

Results

Client Sample ID	SB-224-6	Collected	11/18/2024 14:50
Lab Sample ID	3388338006	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	ND	ND	ug/kg	215	73.3	SW846 8270E	4	11/22/2024 20:48	S7M	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	63.1%	19 – 132	11/22/2024 20:48	
2-Fluorobiphenyl	321-60-8	68.6%	40 – 110	11/22/2024 20:48	
2-Fluorophenol	367-12-4	50.1%	26 – 116	11/22/2024 20:48	
Nitrobenzene-d5	4165-60-0	61.7%	38 – 112	11/22/2024 20:48	
Phenol-d5	4165-62-2	62.1%	35 – 111	11/22/2024 20:48	
Terphenyl-d14	98904-43-9	107%	45 – 126	11/22/2024 20:48	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	560	123	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	560	190	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,1,2-Trichloroethane	ND	ND	ug/kg	560	185	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,1-Dichloroethane	ND	ND	ug/kg	560	157	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,1-Dichloroethene	ND	ND	ug/kg	560	162	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,2,3-Trichlorobenzene	ND	ND	ug/kg	1120	521	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,2,3-Trichloropropane	ND	ND	ug/kg	1120	336	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,2,4-Trichlorobenzene	ND	ND	ug/kg	1120	459	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,2,4-Trimethylbenzene	11100		ug/kg	560	140	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	3920	840	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,2-Dibromoethane	ND	ND	ug/kg	560	157	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,2-Dichlorobenzene	ND	ND	ug/kg	560	213	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,2-Dichloroethane	ND	ND	ug/kg	560	179	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,2-Dichloroethene, Total	ND	ND	ug/kg	1120	252	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,2-Dichloropropane	ND	ND	ug/kg	560	134	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,3,5-Trimethylbenzene	13300		ug/kg	560	112	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,3-Dichlorobenzene	ND	ND	ug/kg	560	140	SW846 8260D	500	11/26/2024 18:13	JTH	D
1,4-Dichlorobenzene	ND	ND	ug/kg	560	151	SW846 8260D	500	11/26/2024 18:13	JTH	D
2-Butanone	ND	ND	ug/kg	5600	1010	SW846 8260D	500	11/26/2024 18:13	JTH	D
2-Hexanone	ND	ND	ug/kg	2800	728	SW846 8260D	500	11/26/2024 18:13	JTH	D
4-Methyl-2-Pentanone(MIBK)	ND	ND,1	ug/kg	2800	840	SW846 8260D	500	11/26/2024 18:13	JTH	D
Acetone	ND	ND	ug/kg	5600	1740	SW846 8260D	500	11/26/2024 18:13	JTH	D
Benzene	1320		ug/kg	560	129	SW846 8260D	500	11/26/2024 18:13	JTH	D
Bromochloromethane	ND	ND	ug/kg	560	179	SW846 8260D	500	11/26/2024 18:13	JTH	D
Bromodichloromethane	ND	ND	ug/kg	560	151	SW846 8260D	500	11/26/2024 18:13	JTH	D
Bromoform	ND	ND	ug/kg	560	224	SW846 8260D	500	11/26/2024 18:13	JTH	D
Bromomethane	ND	ND	ug/kg	560	218	SW846 8260D	500	11/26/2024 18:13	JTH	D
Carbon Disulfide	528J	J	ug/kg	560	129	SW846 8260D	500	11/26/2024 18:13	JTH	D
Carbon Tetrachloride	ND	ND	ug/kg	560	174	SW846 8260D	500	11/26/2024 18:13	JTH	D
Chlorobenzene	ND	ND	ug/kg	560	106	SW846 8260D	500	11/26/2024 18:13	JTH	D
Chlorodibromomethane	ND	ND	ug/kg	560	252	SW846 8260D	500	11/26/2024 18:13	JTH	D
Chloroethane	ND	ND	ug/kg	560	185	SW846 8260D	500	11/26/2024 18:13	JTH	D

Results

Client Sample ID	SB-224-6	Collected	11/18/2024 14:50
Lab Sample ID	3388338006	Lab Receipt	11/19/2024 09:24

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	560	118	SW846 8260D	500	11/26/2024 18:13	JTH	D
Chloromethane	ND	ND	ug/kg	560	174	SW846 8260D	500	11/26/2024 18:13	JTH	D
cis-1,2-Dichloroethene	ND	ND	ug/kg	560	179	SW846 8260D	500	11/26/2024 18:13	JTH	D
cis-1,3-Dichloropropene	ND	ND	ug/kg	560	174	SW846 8260D	500	11/26/2024 18:13	JTH	D
Cyclohexane	ND	ND	ug/kg	560	162	SW846 8260D	500	11/26/2024 18:13	JTH	D
Dichlorodifluoromethane	ND	ND	ug/kg	560	185	SW846 8260D	500	11/26/2024 18:13	JTH	D
Ethylbenzene	ND	ND	ug/kg	560	190	SW846 8260D	500	11/26/2024 18:13	JTH	D
Freon 113	ND	ND	ug/kg	560	146	SW846 8260D	500	11/26/2024 18:13	JTH	D
Isopropylbenzene	1390		ug/kg	560	123	SW846 8260D	500	11/26/2024 18:13	JTH	D
Methyl acetate	2400		ug/kg	1120	179	SW846 8260D	500	11/26/2024 18:13	JTH	D
Methyl cyclohexane	1470		ug/kg	560	168	SW846 8260D	500	11/26/2024 18:13	JTH	D
Methyl t-Butyl Ether	ND	ND	ug/kg	560	185	SW846 8260D	500	11/26/2024 18:13	JTH	D
Methylene Chloride	ND	ND	ug/kg	560	252	SW846 8260D	500	11/26/2024 18:13	JTH	D
mp-Xylene	5330		ug/kg	1120	291	SW846 8260D	500	11/26/2024 18:13	JTH	D
o-Xylene	3930		ug/kg	560	185	SW846 8260D	500	11/26/2024 18:13	JTH	D
Styrene	ND	ND	ug/kg	560	134	SW846 8260D	500	11/26/2024 18:13	JTH	D
Tetrachloroethene	ND	ND	ug/kg	560	196	SW846 8260D	500	11/26/2024 18:13	JTH	D
Toluene	2280		ug/kg	560	129	SW846 8260D	500	11/26/2024 18:13	JTH	D
Total Xylenes	9260		ug/kg	1680	369	SW846 8260D	500	11/26/2024 18:13	JTH	D
trans-1,2-Dichloroethene	ND	ND	ug/kg	560	146	SW846 8260D	500	11/26/2024 18:13	JTH	D
trans-1,3-Dichloropropene	ND	ND	ug/kg	560	162	SW846 8260D	500	11/26/2024 18:13	JTH	D
Trichloroethene	ND	ND	ug/kg	560	185	SW846 8260D	500	11/26/2024 18:13	JTH	D
Trichlorofluoromethane	ND	ND	ug/kg	560	134	SW846 8260D	500	11/26/2024 18:13	JTH	D
Vinyl Chloride	ND	ND	ug/kg	560	168	SW846 8260D	500	11/26/2024 18:13	JTH	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	71 – 146	11/26/2024 18:13	
4-Bromofluorobenzene	460-00-4	129%	46 – 138	11/26/2024 18:13	
Dibromofluoromethane	1868-53-7	97.9%	42 – 143	11/26/2024 18:13	
Toluene-d8	2037-26-5	93.6%	54 – 141	11/26/2024 18:13	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	12.4		%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B
Total Solids	87.6		%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B

Results

Client Sample ID	SB-226-16	Collected	11/18/2024 16:25
Lab Sample ID	3388338007	Lab Receipt	11/19/2024 09:24

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	53600		mg/kg	47.7	15.9	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Antimony, Total	ND	ND	mg/kg	9.5	3.2	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Arsenic, Total	ND	ND	mg/kg	9.5	3.2	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Barium, Total	563		mg/kg	4.8	1.6	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Beryllium, Total	7.5		mg/kg	4.8	1.6	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Cadmium, Total	1.4J	J	mg/kg	2.4	0.80	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Calcium, Total	176000		mg/kg	47.7	15.9	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Chromium, Total	5.1		mg/kg	4.8	1.6	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Cobalt, Total	ND	ND	mg/kg	4.8	1.6	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Copper, Total	ND	ND	mg/kg	9.5	3.2	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Iron, Total	3360		mg/kg	47.7	15.9	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Lead, Total	ND	ND	mg/kg	9.5	3.2	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Magnesium, Total	38500		mg/kg	47.7	15.9	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Manganese, Total	5500		mg/kg	4.8	1.6	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Mercury, Total	ND	ND	mg/kg	0.045	0.015	SW846 7471B	1	12/03/2024 11:48	AXW	B
Nickel, Total	3.4J	J	mg/kg	9.5	3.2	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Potassium, Total	6780		mg/kg	238	79.6	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Selenium, Total	11.0J	J	mg/kg	23.8	8.0	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Silver, Total	ND	ND	mg/kg	2.4	0.80	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Sodium, Total	1220		mg/kg	238	79.6	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Thallium, Total	ND	ND	mg/kg	14.3	4.8	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Vanadium, Total	7.8		mg/kg	4.8	1.6	SW846 6010C	5	11/25/2024 13:26	MSY	B1
Zinc, Total	ND	ND	mg/kg	9.5	3.2	SW846 6010C	5	11/25/2024 13:26	MSY	B1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
1,4-Dioxane	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	758	129	SW846 8270E	4	11/22/2024 21:14	S7M	B
2,4,5-Trichlorophenol	ND	ND	ug/kg	758	129	SW846 8270E	4	11/22/2024 21:14	S7M	B
2,4,6-Trichlorophenol	ND	ND	ug/kg	758	129	SW846 8270E	4	11/22/2024 21:14	S7M	B
2,4-Dichlorophenol	ND	ND	ug/kg	758	129	SW846 8270E	4	11/22/2024 21:14	S7M	B
2,4-Dimethylphenol	ND	ND	ug/kg	758	129	SW846 8270E	4	11/22/2024 21:14	S7M	B
2,4-Dinitrophenol	ND	ND	ug/kg	1520	751	SW846 8270E	4	11/22/2024 21:14	S7M	B
2,4-Dinitrotoluene	ND	ND	ug/kg	379	75.8	SW846 8270E	4	11/22/2024 21:14	S7M	B
2,6-Dinitrotoluene	ND	ND	ug/kg	379	129	SW846 8270E	4	11/22/2024 21:14	S7M	B
2-Chloronaphthalene	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
2-Chlorophenol	ND	ND	ug/kg	758	129	SW846 8270E	4	11/22/2024 21:14	S7M	B
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	758	190	SW846 8270E	4	11/22/2024 21:14	S7M	B
2-Methylnaphthalene	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
2-Nitroaniline	ND	ND	ug/kg	758	87.2	SW846 8270E	4	11/22/2024 21:14	S7M	B
2-Nitrophenol	ND	ND	ug/kg	758	129	SW846 8270E	4	11/22/2024 21:14	S7M	B
3,3-Dichlorobenzidine	ND	ND	ug/kg	758	118	SW846 8270E	4	11/22/2024 21:14	S7M	B
3-Nitroaniline	ND	ND	ug/kg	758	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
4-Bromophenyl-phenylether	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
4-Chloro-3-methylphenol	ND	ND	ug/kg	758	129	SW846 8270E	4	11/22/2024 21:14	S7M	B

Results

Client Sample ID	SB-226-16	Collected	11/18/2024 16:25
Lab Sample ID	3388338007	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	758	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
4-Chlorophenyl-phenylether	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
4-Nitroaniline	ND	ND	ug/kg	758	110	SW846 8270E	4	11/22/2024 21:14	S7M	B
4-Nitrophenol	ND	ND,15	ug/kg	758	129	SW846 8270E	4	11/22/2024 21:14	S7M	B
Acenaphthene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Acenaphthylene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Acetophenone	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Anthracene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Atrazine	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Benzaldehyde	ND	ND	ug/kg	758	75.8	SW846 8270E	4	11/22/2024 21:14	S7M	B
Benzo(a)anthracene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Benzo(a)pyrene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Benzo(b)fluoranthene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Benzo(g,h,i)perylene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Benzo(k)fluoranthene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Biphenyl	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
bis(2-Chloroethyl)ether	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
bis(2-Chloroisopropyl)ether	ND	ND,13	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	379	83.4	SW846 8270E	4	11/22/2024 21:14	S7M	B
Butylbenzylphthalate	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Caprolactam	ND	ND	ug/kg	758	148	SW846 8270E	4	11/22/2024 21:14	S7M	B
Carbazole	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Chrysene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Dibenzo(a,h)anthracene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Dibenzofuran	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Diethylphthalate	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Dimethylphthalate	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Di-n-Butylphthalate	ND	ND	ug/kg	379	133	SW846 8270E	4	11/22/2024 21:14	S7M	B
Di-n-Octylphthalate	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Fluoranthene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Fluorene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Hexachlorobenzene	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Hexachlorobutadiene	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Hexachlorocyclopentadiene	ND	ND	ug/kg	758	114	SW846 8270E	4	11/22/2024 21:14	S7M	B
Hexachloroethane	ND	ND	ug/kg	379	87.2	SW846 8270E	4	11/22/2024 21:14	S7M	B
Indeno(1,2,3-cd)pyrene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Isophorone	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
mp-Cresol	ND	ND,14	ug/kg	758	129	SW846 8270E	4	11/22/2024 21:14	S7M	B
Naphthalene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Nitrobenzene	ND	ND	ug/kg	379	129	SW846 8270E	4	11/22/2024 21:14	S7M	B
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
N-Nitrosodiphenylamine	ND	ND	ug/kg	379	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
o-Cresol	ND	ND	ug/kg	758	129	SW846 8270E	4	11/22/2024 21:14	S7M	B
Pentachlorophenol	ND	ND	ug/kg	758	186	SW846 8270E	4	11/22/2024 21:14	S7M	B
Phenanthrene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B
Phenol	ND	ND	ug/kg	758	129	SW846 8270E	4	11/22/2024 21:14	S7M	B

Results

Client Sample ID	SB-226-16	Collected	11/18/2024 16:25
Lab Sample ID	3388338007	Lab Receipt	11/19/2024 09:24

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	ND	ND	ug/kg	190	64.5	SW846 8270E	4	11/22/2024 21:14	S7M	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	47.5%	19 – 132	11/22/2024 21:14	
2-Fluorobiphenyl	321-60-8	76.7%	40 – 110	11/22/2024 21:14	
2-Fluorophenol	367-12-4	61.9%	26 – 116	11/22/2024 21:14	
Nitrobenzene-d5	4165-60-0	68.6%	38 – 112	11/22/2024 21:14	
Phenol-d5	4165-62-2	68.9%	35 – 111	11/22/2024 21:14	
Terphenyl-d14	98904-43-9	110%	45 – 126	11/22/2024 21:14	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	47.1	10.4	SW846 8260D	50	11/28/2024 00:04	BST	D
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	47.1	16.0	SW846 8260D	50	11/28/2024 00:04	BST	D
1,1,2-Trichloroethane	ND	ND	ug/kg	47.1	15.5	SW846 8260D	50	11/28/2024 00:04	BST	D
1,1-Dichloroethane	ND	ND	ug/kg	47.1	13.2	SW846 8260D	50	11/28/2024 00:04	BST	D
1,1-Dichloroethene	ND	ND	ug/kg	47.1	13.6	SW846 8260D	50	11/28/2024 00:04	BST	D
1,2,3-Trichlorobenzene	ND	ND,12	ug/kg	94.1	43.8	SW846 8260D	50	11/28/2024 00:04	BST	D
1,2,3-Trichloropropane	ND	ND	ug/kg	94.1	28.2	SW846 8260D	50	11/28/2024 00:04	BST	D
1,2,4-Trichlorobenzene	ND	ND	ug/kg	94.1	38.6	SW846 8260D	50	11/28/2024 00:04	BST	D
1,2,4-Trimethylbenzene	ND	ND	ug/kg	47.1	11.8	SW846 8260D	50	11/28/2024 00:04	BST	D
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	329	70.6	SW846 8260D	50	11/28/2024 00:04	BST	D
1,2-Dibromoethane	ND	ND	ug/kg	47.1	13.2	SW846 8260D	50	11/28/2024 00:04	BST	D
1,2-Dichlorobenzene	ND	ND	ug/kg	47.1	17.9	SW846 8260D	50	11/28/2024 00:04	BST	D
1,2-Dichloroethane	ND	ND	ug/kg	47.1	15.1	SW846 8260D	50	11/28/2024 00:04	BST	D
1,2-Dichloroethene, Total	ND	ND	ug/kg	94.1	21.2	SW846 8260D	50	11/28/2024 00:04	BST	D
1,2-Dichloropropane	ND	ND	ug/kg	47.1	11.3	SW846 8260D	50	11/28/2024 00:04	BST	D
1,3,5-Trimethylbenzene	ND	ND	ug/kg	47.1	9.4	SW846 8260D	50	11/28/2024 00:04	BST	D
1,3-Dichlorobenzene	ND	ND	ug/kg	47.1	11.8	SW846 8260D	50	11/28/2024 00:04	BST	D
1,4-Dichlorobenzene	ND	ND	ug/kg	47.1	12.7	SW846 8260D	50	11/28/2024 00:04	BST	D
2-Butanone	ND	ND,7	ug/kg	471	84.7	SW846 8260D	50	11/28/2024 00:04	BST	D
2-Hexanone	ND	ND	ug/kg	235	61.2	SW846 8260D	50	11/28/2024 00:04	BST	D
4-Methyl-2-Pentanone(MIBK)	ND	ND,11	ug/kg	235	70.6	SW846 8260D	50	11/28/2024 00:04	BST	D
Acetone	ND	ND	ug/kg	471	146	SW846 8260D	50	11/28/2024 00:04	BST	D
Benzene	ND	ND	ug/kg	47.1	10.8	SW846 8260D	50	11/28/2024 00:04	BST	D
Bromochloromethane	ND	ND	ug/kg	47.1	15.1	SW846 8260D	50	11/28/2024 00:04	BST	D
Bromodichloromethane	ND	ND	ug/kg	47.1	12.7	SW846 8260D	50	11/28/2024 00:04	BST	D
Bromoform	ND	ND,6	ug/kg	47.1	18.8	SW846 8260D	50	11/28/2024 00:04	BST	D
Bromomethane	39.5J	J	ug/kg	47.1	18.4	SW846 8260D	50	11/28/2024 00:04	BST	D
Carbon Disulfide	11.6J	J	ug/kg	47.1	10.8	SW846 8260D	50	11/28/2024 00:04	BST	D
Carbon Tetrachloride	ND	ND	ug/kg	47.1	14.6	SW846 8260D	50	11/28/2024 00:04	BST	D
Chlorobenzene	ND	ND	ug/kg	47.1	8.9	SW846 8260D	50	11/28/2024 00:04	BST	D
Chlorodibromomethane	ND	ND	ug/kg	47.1	21.2	SW846 8260D	50	11/28/2024 00:04	BST	D
Chloroethane	ND	ND	ug/kg	47.1	15.5	SW846 8260D	50	11/28/2024 00:04	BST	D

Results

Client Sample ID	SB-226-16	Collected	11/18/2024 16:25
Lab Sample ID	3388338007	Lab Receipt	11/19/2024 09:24

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	ND	ND	ug/kg	47.1	9.9	SW846 8260D	50	11/28/2024 00:04	BST	D
Chloromethane	ND	ND	ug/kg	47.1	14.6	SW846 8260D	50	11/28/2024 00:04	BST	D
cis-1,2-Dichloroethene	ND	ND	ug/kg	47.1	15.1	SW846 8260D	50	11/28/2024 00:04	BST	D
cis-1,3-Dichloropropene	ND	ND	ug/kg	47.1	14.6	SW846 8260D	50	11/28/2024 00:04	BST	D
Cyclohexane	ND	ND	ug/kg	47.1	13.6	SW846 8260D	50	11/28/2024 00:04	BST	D
Dichlorodifluoromethane	ND	ND	ug/kg	47.1	15.5	SW846 8260D	50	11/28/2024 00:04	BST	D
Ethylbenzene	ND	ND	ug/kg	47.1	16.0	SW846 8260D	50	11/28/2024 00:04	BST	D
Freon 113	ND	ND	ug/kg	47.1	12.2	SW846 8260D	50	11/28/2024 00:04	BST	D
Isopropylbenzene	ND	ND	ug/kg	47.1	10.4	SW846 8260D	50	11/28/2024 00:04	BST	D
Methyl acetate	56.1J	J,8	ug/kg	94.1	15.1	SW846 8260D	50	11/28/2024 00:04	BST	D
Methyl cyclohexane	ND	ND	ug/kg	47.1	14.1	SW846 8260D	50	11/28/2024 00:04	BST	D
Methyl t-Butyl Ether	ND	ND	ug/kg	47.1	15.5	SW846 8260D	50	11/28/2024 00:04	BST	D
Methylene Chloride	ND	ND	ug/kg	47.1	21.2	SW846 8260D	50	11/28/2024 00:04	BST	D
mp-Xylene	ND	ND	ug/kg	94.1	24.5	SW846 8260D	50	11/28/2024 00:04	BST	D
o-Xylene	ND	ND	ug/kg	47.1	15.5	SW846 8260D	50	11/28/2024 00:04	BST	D
Styrene	ND	ND	ug/kg	47.1	11.3	SW846 8260D	50	11/28/2024 00:04	BST	D
Tetrachloroethene	ND	ND	ug/kg	47.1	16.5	SW846 8260D	50	11/28/2024 00:04	BST	D
Toluene	ND	ND	ug/kg	47.1	10.8	SW846 8260D	50	11/28/2024 00:04	BST	D
Total Xylenes	ND	ND	ug/kg	141	31.1	SW846 8260D	50	11/28/2024 00:04	BST	D
trans-1,2-Dichloroethene	ND	ND	ug/kg	47.1	12.2	SW846 8260D	50	11/28/2024 00:04	BST	D
trans-1,3-Dichloropropene	ND	ND	ug/kg	47.1	13.6	SW846 8260D	50	11/28/2024 00:04	BST	D
Trichloroethene	ND	ND	ug/kg	47.1	15.5	SW846 8260D	50	11/28/2024 00:04	BST	D
Trichlorofluoromethane	ND	ND	ug/kg	47.1	11.3	SW846 8260D	50	11/28/2024 00:04	BST	D
Vinyl Chloride	ND	ND	ug/kg	47.1	14.1	SW846 8260D	50	11/28/2024 00:04	BST	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	93.6%	71 – 146	11/28/2024 00:04	
4-Bromofluorobenzene	460-00-4	102%	46 – 138	11/28/2024 00:04	
Dibromofluoromethane	1868-53-7	86.3%	42 – 143	11/28/2024 00:04	
Toluene-d8	2037-26-5	94.6%	54 – 141	11/28/2024 00:04	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	2.3		%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B
Total Solids	97.7		%	0.1	0.01	S2540G-15	1	11/19/2024 22:13	LMD	B

Results

Client Sample ID	TB-5	Collected	11/18/2024 00:00
Lab Sample ID	3388338008	Lab Receipt	11/19/2024 09:24

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/26/2024 14:56	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/26/2024 14:56	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	11/26/2024 14:56	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	11/26/2024 14:56	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	11/26/2024 14:56	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	11/26/2024 14:56	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/26/2024 14:56	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/26/2024 14:56	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/26/2024 14:56	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	11/26/2024 14:56	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	11/26/2024 14:56	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/26/2024 14:56	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/26/2024 14:56	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	11/26/2024 14:56	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/26/2024 14:56	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/26/2024 14:56	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	11/26/2024 14:56	TMP	A
Chloromethane	0.37J	J	ug/L	1.0	0.31	SW846 8260D	1	11/26/2024 14:56	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/26/2024 14:56	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/26/2024 14:56	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/26/2024 14:56	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/26/2024 14:56	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/26/2024 14:56	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/26/2024 14:56	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/26/2024 14:56	TMP	A
Methyl acetate	0.36J	J	ug/L	2.0	0.32	SW846 8260D	1	11/26/2024 14:56	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/26/2024 14:56	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/26/2024 14:56	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/26/2024 14:56	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	11/26/2024 14:56	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/26/2024 14:56	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/26/2024 14:56	TMP	A

Results

Client Sample ID	TB-5	Collected	11/18/2024 00:00
Lab Sample ID	3388338008	Lab Receipt	11/19/2024 09:24

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	11/26/2024 14:56	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/26/2024 14:56	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	11/26/2024 14:56	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/26/2024 14:56	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/26/2024 14:56	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/26/2024 14:56	TMP	A
Trichlorofluoromethane	ND	ND,28	ug/L	1.0	0.24	SW846 8260D	1	11/26/2024 14:56	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/26/2024 14:56	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	95.9%	62 – 133	11/26/2024 14:56	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	11/26/2024 14:56	
Dibromofluoromethane	1868-53-7	96%	78 – 116	11/26/2024 14:56	
Toluene-d8	2037-26-5	103%	76 – 127	11/26/2024 14:56	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3388338001	SB-225-12	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388338002	SB-225-12D	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388338003	SB-223-12	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388338004	SB-222-6	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388338005	SB-224-4	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388338006	SB-224-6	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388338007	SB-226-16	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3388338008	TB-5	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1336097	Prep Method	SW846 3051A
Date	11/20/2024 14:50	Analysis Method	SW846 6010C
Tech.	AXW		

Associated Samples

3388338001	3388338003	3388338004	3388338005
3388338006	3388338007		

Method Blank 3907901 (MB) Created on 11/20/2024 10:59 For QC Batch 1336097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/kg	10.0	ND
Antimony, Total	7440-36-0	BLK	ND	mg/kg	2.0	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/kg	2.0	ND
Barium, Total	7440-39-3	BLK	ND	mg/kg	1.0	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/kg	1.0	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/kg	0.50	ND
Calcium, Total	7440-70-2	BLK	ND	mg/kg	10.0	ND
Chromium, Total	7440-47-3	BLK	ND	mg/kg	1.0	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/kg	1.0	ND
Copper, Total	7440-50-8	BLK	ND	mg/kg	2.0	ND
Iron, Total	7439-89-6	BLK	3.9J	mg/kg	10.0	J
Lead, Total	7439-92-1	BLK	ND	mg/kg	2.0	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/kg	10.0	ND
Manganese, Total	7439-96-5	BLK	ND	mg/kg	1.0	ND
Nickel, Total	7440-02-0	BLK	ND	mg/kg	2.0	ND
Potassium, Total	7440-09-7	BLK	ND	mg/kg	50.0	ND
Selenium, Total	7782-49-2	BLK	ND	mg/kg	5.0	ND
Silver, Total	7440-22-4	BLK	ND	mg/kg	0.50	ND
Sodium, Total	7440-23-5	BLK	ND	mg/kg	50.0	ND
Thallium, Total	7440-28-0	BLK	ND	mg/kg	3.0	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/kg	1.0	ND
Zinc, Total	7440-66-6	BLK	ND	mg/kg	2.0	ND

Lab Control Standard 3907902 (LCS1) Created on 11/20/2024 10:59 For QC Batch 1336097

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	100		100	100	80 - 120		
Antimony, Total	7440-36-0	LCS	36		40	89.9	80 - 120		
Arsenic, Total	7440-38-2	LCS	39.3		40	98.4	80 - 120		
Barium, Total	7440-39-3	LCS	104		100	104	80 - 120		
Beryllium, Total	7440-41-7	LCS	40.2		40	101	80 - 120		
Cadmium, Total	7440-43-9	LCS	20.7		20	103	80 - 120		
Calcium, Total	7440-70-2	LCS	500		500	99.9	80 - 120		
Chromium, Total	7440-47-3	LCS	21.3		20	106	80 - 120		
Cobalt, Total	7440-48-4	LCS	104		100	104	80 - 120		
Copper, Total	7440-50-8	LCS	101		100	101	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Iron, Total	7439-89-6	LCS	1020		1000	102	80 - 120		
Lead, Total	7439-92-1	LCS	102		100	102	80 - 120		
Magnesium, Total	7439-95-4	LCS	513		500	103	80 - 120		
Manganese, Total	7439-96-5	LCS	21.3		20	106	80 - 120		
Nickel, Total	7440-02-0	LCS	104		100	104	80 - 120		
Potassium, Total	7440-09-7	LCS	521		500	104	80 - 120		
Selenium, Total	7782-49-2	LCS	100		100	100	80 - 120		
Silver, Total	7440-22-4	LCS	20.3		20	101	80 - 120		
Sodium, Total	7440-23-5	LCS	536		500	107	80 - 120		
Thallium, Total	7440-28-0	LCS	103		100	103	80 - 120		
Vanadium, Total	7440-62-2	LCS	20		20	99.8	80 - 120		
Zinc, Total	7440-66-6	LCS	100		100	100	80 - 120		

Matrix Spike 3907904 (MS1) 3388338005 For QC Batch 1336097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3907905 (MSD1) 3388338005 For QC Batch 1336097

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	MS	53900	58500	99	NC	75 - 125		
Aluminum, Total	7429-90-5	MSD	56100	58500	99.40	NC	75 - 125	RPD 4.09 (Max-20)	
Antimony, Total	7440-36-0	MS	26.1	0	39.60	66*	75 - 125		
Antimony, Total	7440-36-0	MSD	31	0	39.80	77.9	75 - 125	RPD 16.90 (Max-20)	
Arsenic, Total	7440-38-2	MS	27.9	0	39.60	70.5*	75 - 125		
Arsenic, Total	7440-38-2	MSD	29.5	0	39.80	74.1*	75 - 125	RPD 5.41 (Max-20)	
Barium, Total	7440-39-3	MS	642	591	99	NC	75 - 125		
Barium, Total	7440-39-3	MSD	666	591	99.40	NC	75 - 125	RPD 3.69 (Max-20)	
Beryllium, Total	7440-41-7	MS	44.1	11.40	39.60	82.6	75 - 125		
Beryllium, Total	7440-41-7	MSD	47.1	11.40	39.80	90	75 - 125	RPD 6.71 (Max-20)	
Cadmium, Total	7440-43-9	MS	19.5	1.60	19.80	90.3	75 - 125		
Cadmium, Total	7440-43-9	MSD	20.7	1.60	19.90	96.1	75 - 125	RPD 6.07 (Max-20)	
Calcium, Total	7440-70-2	MS	186000	205000	495	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	195000	205000	497	NC	75 - 125	RPD 4.75 (Max-20)	
Chromium, Total	7440-47-3	MS	25.1	8.40	19.80	84.4	75 - 125		
Chromium, Total	7440-47-3	MSD	27.9	8.40	19.90	98.1	75 - 125	RPD 10.50 (Max-20)	
Cobalt, Total	7440-48-4	MS	79.7	0	99	80.5	75 - 125		
Cobalt, Total	7440-48-4	MSD	85.9	0	99.40	86.4	75 - 125	RPD 7.53 (Max-20)	
Copper, Total	7440-50-8	MS	93.8	5	99	89.7	75 - 125		
Copper, Total	7440-50-8	MSD	102	5	99.40	97.3	75 - 125	RPD 8.11 (Max-20)	
Iron, Total	7439-89-6	MS	3050	1980	990	108	75 - 125		
Iron, Total	7439-89-6	MSD	3050	1980	994	108	75 - 125	RPD 0.01 (Max-20)	
Lead, Total	7439-92-1	MS	84.8	0	99	85.6	75 - 125		
Lead, Total	7439-92-1	MSD	90.6	0	99.40	91.1	75 - 125	RPD 6.62 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Magnesium, Total	7439-95-4	MS	34800	37600	495	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	35900	37600	497	NC	75 - 125	RPD 3.21 (Max-20)	
Manganese, Total	7439-96-5	MS	2270	2410	19.80	NC	75 - 125		
Manganese, Total	7439-96-5	MSD	2290	2410	19.90	NC	75 - 125	RPD 0.82 (Max-20)	
Nickel, Total	7440-02-0	MS	81.8	2.40	99	80.1	75 - 125		
Nickel, Total	7440-02-0	MSD	91.5	2.40	99.40	89.5	75 - 125	RPD 11.20 (Max-20)	
Potassium, Total	7440-09-7	MS	4200	4410	495	NC	75 - 125		
Potassium, Total	7440-09-7	MSD	4580	4410	497	NC	75 - 125	RPD 8.64 (Max-20)	
Selenium, Total	7782-49-2	MS	105	18.60	99	86.9	75 - 125		
Selenium, Total	7782-49-2	MSD	113	18.60	99.40	95	75 - 125	RPD 7.69 (Max-20)	
Silver, Total	7440-22-4	MS	19.3	0	19.80	97.5	75 - 125		
Silver, Total	7440-22-4	MSD	20.3	0	19.90	102	75 - 125	RPD 4.91 (Max-20)	
Sodium, Total	7440-23-5	MS	1410	1050	495	71.1*	75 - 125		
Sodium, Total	7440-23-5	MSD	1490	1050	497	88.5	75 - 125	RPD 6.05 (Max-20)	
Thallium, Total	7440-28-0	MS	76.4	2.40	99	74.8*	75 - 125		
Thallium, Total	7440-28-0	MSD	85	2.40	99.40	83.1	75 - 125	RPD 10.70 (Max-20)	
Vanadium, Total	7440-62-2	MS	23.5	7.60	19.80	80.5	75 - 125		
Vanadium, Total	7440-62-2	MSD	25	7.60	19.90	87.4	75 - 125	RPD 5.92 (Max-20)	
Zinc, Total	7440-66-6	MS	71.8	0	99	72.5*	75 - 125		
Zinc, Total	7440-66-6	MSD	78.1	0	99.40	78.6	75 - 125	RPD 8.41 (Max-20)	

QC Batch

QC Batch	1336101	Prep Method	SW846 3051A
Date	11/20/2024 16:05	Analysis Method	SW846 6010C
Tech.	AXW		

Associated Samples

3388338002

Method Blank 3907910 (MB) Created on 11/20/2024 11:17 For QC Batch 1336101

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/kg	10.0	ND
Antimony, Total	7440-36-0	BLK	ND	mg/kg	2.0	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/kg	2.0	ND
Barium, Total	7440-39-3	BLK	ND	mg/kg	1.0	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/kg	1.0	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/kg	0.50	ND
Calcium, Total	7440-70-2	BLK	11.1	mg/kg	10.0	
Chromium, Total	7440-47-3	BLK	ND	mg/kg	1.0	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/kg	1.0	ND
Copper, Total	7440-50-8	BLK	ND	mg/kg	2.0	ND
Iron, Total	7439-89-6	BLK	5.2J	mg/kg	10.0	J
Lead, Total	7439-92-1	BLK	ND	mg/kg	2.0	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/kg	10.0	ND
Manganese, Total	7439-96-5	BLK	ND	mg/kg	1.0	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nickel, Total	7440-02-0	BLK	ND	mg/kg	2.0	ND
Potassium, Total	7440-09-7	BLK	ND	mg/kg	50.0	ND
Selenium, Total	7782-49-2	BLK	ND	mg/kg	5.0	ND
Silver, Total	7440-22-4	BLK	ND	mg/kg	0.50	ND
Sodium, Total	7440-23-5	BLK	20.7J	mg/kg	50.0	J
Thallium, Total	7440-28-0	BLK	ND	mg/kg	3.0	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/kg	1.0	ND
Zinc, Total	7440-66-6	BLK	ND	mg/kg	2.0	ND

Lab Control Standard 3907911 (LCS1) Created on 11/20/2024 11:17 For QC Batch 1336101

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	111		100	111	80 - 120		
Antimony, Total	7440-36-0	LCS	36.9		40	92.2	80 - 120		
Arsenic, Total	7440-38-2	LCS	39.8		40	99.4	80 - 120		
Barium, Total	7440-39-3	LCS	105		100	105	80 - 120		
Beryllium, Total	7440-41-7	LCS	40.9		40	102	80 - 120		
Cadmium, Total	7440-43-9	LCS	21		20	105	80 - 120		
Calcium, Total	7440-70-2	LCS	508		500	102	80 - 120		
Chromium, Total	7440-47-3	LCS	21.6		20	108	80 - 120		
Cobalt, Total	7440-48-4	LCS	106		100	106	80 - 120		
Copper, Total	7440-50-8	LCS	103		100	103	80 - 120		
Iron, Total	7439-89-6	LCS	1040		1000	104	80 - 120		
Lead, Total	7439-92-1	LCS	104		100	104	80 - 120		
Magnesium, Total	7439-95-4	LCS	521		500	104	80 - 120		
Manganese, Total	7439-96-5	LCS	21.7		20	108	80 - 120		
Nickel, Total	7440-02-0	LCS	105		100	105	80 - 120		
Potassium, Total	7440-09-7	LCS	528		500	106	80 - 120		
Selenium, Total	7782-49-2	LCS	101		100	101	80 - 120		
Silver, Total	7440-22-4	LCS	20.6		20	103	80 - 120		
Sodium, Total	7440-23-5	LCS	545		500	109	80 - 120		
Thallium, Total	7440-28-0	LCS	104		100	104	80 - 120		
Vanadium, Total	7440-62-2	LCS	20.3		20	102	80 - 120		
Zinc, Total	7440-66-6	LCS	101		100	101	80 - 120		

QC Batch

QC Batch	1348991	Prep Method	SW846 7471B
Date	12/03/2024 09:03	Analysis Method	SW846 7471B
Tech.	AJN		

Associated Samples

3388338001	3388338002	3388338003	3388338004
3388338006	3388338007		

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3912214 (MS) 3388250007 (non-Project Sample) For QC Batch 1348991

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3912215 (MSD) 3388250007 (non-Project Sample) For QC Batch 1348991

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.83	0.12	1	70.5*	80 - 120		
Mercury, Total	7439-97-6	MSD	0.87	0.12	0.99	74.8*	80 - 120	RPD 4.57 (Max-20)	

Matrix Spike 3912216 (MS) 3388250017 (non-Project Sample) For QC Batch 1348991

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3912217 (MSD) 3388250017 (non-Project Sample) For QC Batch 1348991

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.74	0.0120	0.95	76.5*	80 - 120		
Mercury, Total	7439-97-6	MSD	0.75	0.0120	0.94	78.3*	80 - 120	RPD 0.58 (Max-20)	

Method Blank 3912212 (MB) Created on 12/02/2024 14:11 For QC Batch 1348991

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/kg	0.050	ND

Lab Control Standard 3912213 (LCS) Created on 12/02/2024 14:11 For QC Batch 1348991

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.34		0.40	84.5	80 - 120		

QC Batch

QC Batch	1350799	Prep Method	SW846 7471B
Date	12/05/2024 06:53	Analysis Method	SW846 7471B
Tech.	AJN		

Associated Samples

3388338005

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3913148 (MS) 3388416009 (non-Project Sample) For QC Batch 1350799

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3913149 (MSD) 3388416009 (non-Project Sample) For QC Batch 1350799

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.75	0.0075	0.97	77*	80 - 120		
Mercury, Total	7439-97-6	MSD	0.75	0.0075	0.94	79*	80 - 120	RPD 0.13 (Max-20)	

Matrix Spike 3913150 (MS) 3388416014 (non-Project Sample) For QC Batch 1350799

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3913151 (MSD) 3388416014 (non-Project Sample) For QC Batch 1350799

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.83	0.0110	1	82.5	80 - 120		
Mercury, Total	7439-97-6	MSD	0.77	0.0110	0.93	81.4	80 - 120	RPD 8.14 (Max-20)	

Method Blank 3913146 (MB) Created on 12/04/2024 09:31 For QC Batch 1350799

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/kg	0.050	ND

Lab Control Standard 3913147 (LCS) Created on 12/04/2024 09:31 For QC Batch 1350799

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.35		0.40	87	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1335399	Prep Method	SW846 3546
Date	11/20/2024 00:25	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3388338001 3388338002 3388338003 3388338004

Matrix Spike 3907483 (MS) 3387872002 (non-Project Sample) For QC Batch 1335399

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3907484 (MSD) 3387872002 (non-Project Sample) For QC Batch 1335399

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	MS	1100	0	2230	49.2*	51 - 102		
1,2,4,5-Tetrachlorobenzene	95-94-3	MSD	1580	0	2310	68.1	51 - 102	RPD 35.80* (Max-19)	
1,4-Dioxane	123-91-1	MS	1060	0	2230	47.4	24 - 104		
1,4-Dioxane	123-91-1	MSD	1380	0	2310	59.8	24 - 104	RPD 26.70 (Max-30)	
2,3,4,6-Tetrachlorophenol	58-90-2	MS	3130	0	4460	70	55 - 111		
2,3,4,6-Tetrachlorophenol	58-90-2	MSD	3250	0	4630	70.2	55 - 111	RPD 3.90 (Max-20)	
2,4,5-Trichlorophenol	95-95-4	MS	3270	0	4460	73.3	60 - 108		
2,4,5-Trichlorophenol	95-95-4	MSD	3840	0	4630	83	60 - 108	RPD 16.10 (Max-22)	
2,4,6-Trichlorophenol	88-06-2	MS	3080	0	4460	69.1	59 - 111		
2,4,6-Trichlorophenol	88-06-2	MSD	3930	0	4630	84.8	59 - 111	RPD 24.10* (Max-20)	
2,4-Dichlorophenol	120-83-2	MS	3060	0	4460	68.5	61 - 109		
2,4-Dichlorophenol	120-83-2	MSD	3780	0	4630	81.7	61 - 109	RPD 21.20* (Max-20)	
2,4-Dimethylphenol	105-67-9	MS	3450	0	4460	77.2	59 - 133		
2,4-Dimethylphenol	105-67-9	MSD	4280	0	4630	92.4	59 - 133	RPD 21.50 (Max-23)	
2,4-Dinitrophenol	51-28-5	MS	1590	0	4460	35.7	28 - 135		
2,4-Dinitrophenol	51-28-5	MSD	2520	0	4630	54.5	28 - 135	RPD 45.10* (Max-30)	
2,4-Dinitrotoluene	121-14-2	MS	1660	0	2230	74.2	62 - 115		
2,4-Dinitrotoluene	121-14-2	MSD	1940	0	2310	83.6	62 - 115	RPD 15.60 (Max-21)	
2,6-Dinitrotoluene	606-20-2	MS	1630	0	2230	73.1	61 - 114		
2,6-Dinitrotoluene	606-20-2	MSD	1910	0	2310	82.5	61 - 114	RPD 15.70 (Max-20)	
2-Chloronaphthalene	91-58-7	MS	1230	0	2230	55.1*	59 - 104		
2-Chloronaphthalene	91-58-7	MSD	1690	0	2310	73.1	59 - 104	RPD 31.60* (Max-19)	
2-Chlorophenol	95-57-8	MS	2950	0	4460	66.1	61 - 106		
2-Chlorophenol	95-57-8	MSD	3800	0	4630	82.2	61 - 106	RPD 25.20* (Max-22)	
2-Methyl-4,6-dinitrophenol	534-52-1	MS	2760	0	4460	61.9	39 - 113		
2-Methyl-4,6-dinitrophenol	534-52-1	MSD	3320	0	4630	71.7	39 - 113	RPD 18.20 (Max-30)	
2-Methylnaphthalene	91-57-6	MS	1230	0	2230	55.3*	59 - 108		
2-Methylnaphthalene	91-57-6	MSD	1760	0	2310	76	59 - 108	RPD 35.10* (Max-21)	
2-Nitroaniline	88-74-4	MS	1790	0	2230	80.2	60 - 115		
2-Nitroaniline	88-74-4	MSD	2050	0	2310	88.7	60 - 115	RPD 13.70 (Max-19)	
2-Nitrophenol	88-75-5	MS	2900	0	4460	65	60 - 114		
2-Nitrophenol	88-75-5	MSD	3840	0	4630	83	60 - 114	RPD 27.90* (Max-23)	
3,3-Dichlorobenzidine	91-94-1	MS	2040	0	4460	45.7	25 - 104		
3,3-Dichlorobenzidine	91-94-1	MSD	1950	0	4630	42.1	25 - 104	RPD 4.44 (Max-26)	
3-Nitroaniline	99-09-2	MS	1570	0	2230	70.3	52 - 119		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
3-Nitroaniline	99-09-2	MSD	1490	0	2310	64.2	52 - 119	RPD 5.35 (Max-22)	
4-Bromophenyl-phenylether	101-55-3	MS	1280	0	2230	57.5*	60 - 110		
4-Bromophenyl-phenylether	101-55-3	MSD	1620	0	2310	69.8	60 - 110	RPD 23* (Max-21)	
4-Chloro-3-methylphenol	59-50-7	MS	3470	0	4460	77.8	59 - 115		
4-Chloro-3-methylphenol	59-50-7	MSD	3920	0	4630	84.7	59 - 115	RPD 12 (Max-20)	
4-Chloroaniline	106-47-8	MS	1180	0	2230	52.7	42 - 111		
4-Chloroaniline	106-47-8	MSD	1230	0	2310	53.3	42 - 111	RPD 4.71 (Max-22)	
4-Chlorophenyl-phenylether	7005-72-3	MS	1310	0	2230	58.7*	59 - 107		
4-Chlorophenyl-phenylether	7005-72-3	MSD	1740	0	2310	75.3	59 - 107	RPD 28.40* (Max-18)	
4-Nitroaniline	100-01-6	MS	1700	0	2230	76.2	49 - 121		
4-Nitroaniline	100-01-6	MSD	1550	0	2310	67	49 - 121	RPD 9.19 (Max-19)	
4-Nitrophenol	100-02-7	MS	3700	0	4460	83	53 - 124		
4-Nitrophenol	100-02-7	MSD	4050	0	4630	87.5	53 - 124	RPD 8.90 (Max-21)	
Acenaphthene	83-32-9	MS	1280	0	2230	57.4*	61 - 105		
Acenaphthene	83-32-9	MSD	1760	0	2310	76	61 - 105	RPD 31.50* (Max-17)	
Acenaphthylene	208-96-8	MS	1130	0	2230	50.8*	63 - 106		
Acenaphthylene	208-96-8	MSD	1530	0	2310	66.1	63 - 106	RPD 29.70* (Max-17)	
Acetophenone	98-86-2	MS	1280	0	2230	57.3	33 - 98		
Acetophenone	98-86-2	MSD	1730	0	2310	74.9	33 - 98	RPD 30.20* (Max-21)	
Anthracene	120-12-7	MS	1420	0	2230	63.5	60 - 107		
Anthracene	120-12-7	MSD	1740	0	2310	75.2	60 - 107	RPD 20.40* (Max-20)	
Atrazine	1912-24-9	MS	1670	0	2230	74.9	62 - 116		
Atrazine	1912-24-9	MSD	1860	0	2310	80.4	62 - 116	RPD 10.70 (Max-22)	
Benzaldehyde	100-52-7	MS	1400	14.70	2230	61.9	46 - 115		
Benzaldehyde	100-52-7	MSD	1800	14.70	2310	77.1	46 - 115	RPD 25.20 (Max-30)	
Benzo(a)anthracene	56-55-3	MS	1590	18.30	2230	70.4	61 - 113		
Benzo(a)anthracene	56-55-3	MSD	1910	18.30	2310	81.9	61 - 113	RPD 18.50 (Max-22)	
Benzo(a)pyrene	50-32-8	MS	1580	20.50	2230	69.8	68 - 121		
Benzo(a)pyrene	50-32-8	MSD	1890	20.50	2310	80.9	68 - 121	RPD 18.10 (Max-24)	
Benzo(b)fluoranthene	205-99-2	MS	1590	23.40	2230	70.1	64 - 115		
Benzo(b)fluoranthene	205-99-2	MSD	1860	23.40	2310	79.5	64 - 115	RPD 15.90 (Max-28)	
Benzo(g,h,i)perylene	191-24-2	MS	1460	13.90	2230	64.8	57 - 119		
Benzo(g,h,i)perylene	191-24-2	MSD	1800	13.90	2310	77.3	57 - 119	RPD 21 (Max-30)	
Benzo(k)fluoranthene	207-08-9	MS	1520	0	2230	68.2	63 - 116		
Benzo(k)fluoranthene	207-08-9	MSD	1800	0	2310	77.7	63 - 116	RPD 16.60 (Max-22)	
Biphenyl	92-52-4	MS	1170	0	2230	52.2*	56 - 100		
Biphenyl	92-52-4	MSD	1630	0	2310	70.5	56 - 100	RPD 33.20* (Max-14)	
bis(2-Chloroethoxy)methane	111-91-1	MS	1470	0	2230	66	56 - 112		
bis(2-Chloroethoxy)methane	111-91-1	MSD	1940	0	2310	83.8	56 - 112	RPD 27.30* (Max-18)	
bis(2-Chloroethyl)ether	111-44-4	MS	1470	0	2230	65.7	51 - 109		
bis(2-Chloroethyl)ether	111-44-4	MSD	2190	0	2310	94.7	51 - 109	RPD 39.60* (Max-24)	
bis(2-Chloroisopropyl)ether	108-60-1	MS	1460	0	2230	65.5	38 - 120		
bis(2-Chloroisopropyl)ether	108-60-1	MSD	2030	0	2310	87.8	38 - 120	RPD 32.60* (Max-22)	
bis(2-Ethylhexyl)phthalate	117-81-7	MS	1550	0	2230	69.6	51 - 130		
bis(2-Ethylhexyl)phthalate	117-81-7	MSD	1800	0	2310	77.7	51 - 130	RPD 14.60 (Max-21)	
Butylbenzylphthalate	85-68-7	MS	1710	0	2230	76.7	58 - 125		
Butylbenzylphthalate	85-68-7	MSD	2150	0	2310	93	58 - 125	RPD 22.80* (Max-18)	
Caprolactam	105-60-2	MS	1780	0	2230	79.9	51 - 119		
Caprolactam	105-60-2	MSD	1910	0	2310	82.3	51 - 119	RPD 6.55 (Max-23)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Carbazole	86-74-8	MS	1610	0	2230	72.1	66 - 117		
Carbazole	86-74-8	MSD	1810	0	2310	78.1	66 - 117	RPD 11.60 (Max-20)	
Chrysene	218-01-9	MS	1640	20.80	2230	72.4	65 - 113		
Chrysene	218-01-9	MSD	1890	20.80	2310	80.6	65 - 113	RPD 14.20 (Max-20)	
Dibenzo(a,h)anthracene	53-70-3	MS	1590	0	2230	71.1	59 - 116		
Dibenzo(a,h)anthracene	53-70-3	MSD	1870	0	2310	80.9	59 - 116	RPD 16.50 (Max-28)	
Dibenzofuran	132-64-9	MS	1280	0	2230	57.5*	62 - 106		
Dibenzofuran	132-64-9	MSD	1740	0	2310	75	62 - 106	RPD 29.90* (Max-18)	
Diethylphthalate	84-66-2	MS	1490	0	2230	66.5	59 - 112		
Diethylphthalate	84-66-2	MSD	1790	0	2310	77.4	59 - 112	RPD 18.70* (Max-18)	
Dimethylphthalate	131-11-3	MS	1480	0	2230	66.5	60 - 111		
Dimethylphthalate	131-11-3	MSD	1820	0	2310	78.5	60 - 111	RPD 20.10* (Max-18)	
Di-n-Butylphthalate	84-74-2	MS	1610	0	2230	72.3	62 - 125		
Di-n-Butylphthalate	84-74-2	MSD	1990	0	2310	85.9	62 - 125	RPD 20.70* (Max-20)	
Di-n-Octylphthalate	117-84-0	MS	1690	0	2230	75.6	47 - 134		
Di-n-Octylphthalate	117-84-0	MSD	1910	0	2310	82.3	47 - 134	RPD 12.10 (Max-20)	
Fluoranthene	206-44-0	MS	1570	26.40	2230	69.2	61 - 114		
Fluoranthene	206-44-0	MSD	1810	26.40	2310	76.9	61 - 114	RPD 13.90 (Max-21)	
Fluorene	86-73-7	MS	1380	0	2230	61.9*	62 - 107		
Fluorene	86-73-7	MSD	1790	0	2310	77.2	62 - 107	RPD 25.60* (Max-16)	
Hexachlorobenzene	118-74-1	MS	1300	0	2230	58.4	56 - 111		
Hexachlorobenzene	118-74-1	MSD	1640	0	2310	71	56 - 111	RPD 23.20* (Max-21)	
Hexachlorobutadiene	87-68-3	MS	1210	0	2230	54.1*	56 - 127		
Hexachlorobutadiene	87-68-3	MSD	1830	0	2310	79	56 - 127	RPD 41* (Max-22)	
Hexachlorocyclopentadiene	77-47-4	MS	168	0	2230	7.53*	20 - 124		J
Hexachlorocyclopentadiene	77-47-4	MSD	371	0	2310	16*	20 - 124	RPD 75.10* (Max-29)	
Hexachloroethane	67-72-1	MS	1050	0	2230	47*	57 - 101		
Hexachloroethane	67-72-1	MSD	1640	0	2310	70.8	57 - 101	RPD 43.90* (Max-28)	
Indeno(1,2,3-cd)pyrene	193-39-5	MS	1470	15.10	2230	65.1	53 - 118		
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	1760	15.10	2310	75.4	53 - 118	RPD 18 (Max-30)	
Isophorone	78-59-1	MS	1440	0	2230	64.4	41 - 101		
Isophorone	78-59-1	MSD	1870	0	2310	80.9	41 - 101	RPD 26.20* (Max-19)	
mp-Cresol	108394/106445	MS	3240	0	4460	72.5	60 - 109		
mp-Cresol	108394/106445	MSD	4020	0	4630	86.7	60 - 109	RPD 21.50* (Max-20)	
Naphthalene	91-20-3	MS	1290	0	2230	57.7*	60 - 102		
Naphthalene	91-20-3	MSD	1750	0	2310	75.6	60 - 102	RPD 30.40* (Max-21)	
Nitrobenzene	98-95-3	MS	1420	0	2230	63.6	52 - 113		
Nitrobenzene	98-95-3	MSD	1880	0	2310	81.4	52 - 113	RPD 28.10* (Max-20)	
N-Nitroso-di-n-propylamine	621-64-7	MS	1470	0	2230	66	50 - 121		
N-Nitroso-di-n-propylamine	621-64-7	MSD	1950	0	2310	84.1	50 - 121	RPD 27.70* (Max-20)	
N-Nitrosodiphenylamine	86-30-6	MS	1720	0	2230	77.3	73 - 129		
N-Nitrosodiphenylamine	86-30-6	MSD	2070	0	2310	89.4	73 - 129	RPD 18.20 (Max-21)	
o-Cresol	95-48-7	MS	3030	0	4460	67.8	61 - 108		
o-Cresol	95-48-7	MSD	3790	0	4630	81.9	61 - 108	RPD 22.50* (Max-21)	
Pentachlorophenol	87-86-5	MS	2410	0	4460	53.9	46 - 138		
Pentachlorophenol	87-86-5	MSD	2640	0	4630	57	46 - 138	RPD 9.14 (Max-25)	
Phenanthrene	85-01-8	MS	1440	13.90	2230	63.7	61 - 106		
Phenanthrene	85-01-8	MSD	1720	13.90	2310	73.6	61 - 106	RPD 17.90 (Max-20)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Phenol	108-95-2	MS	3010	0	4460	67.3	57 - 110		
Phenol	108-95-2	MSD	3720	0	4630	80.3	57 - 110	RPD 21.20 (Max-23)	
Pyrene	129-00-0	MS	1570	23.60	2230	69.2	62 - 117		
Pyrene	129-00-0	MSD	2010	23.60	2310	85.7	62 - 117	RPD 24.60* (Max-20)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	3250	4460	72.9	19 - 132	
2,4,6-Tribromophenol	118-79-6	MSD	3710	4630	80.2	19 - 132	
2-Fluorobiphenyl	321-60-8	MS	1440	2230	64.3	40 - 110	
2-Fluorobiphenyl	321-60-8	MSD	1910	2310	82.4	40 - 110	
2-Fluorophenol	367-12-4	MS	2780	4460	62.2	26 - 116	
2-Fluorophenol	367-12-4	MSD	3690	4630	79.7	26 - 116	
Nitrobenzene-d5	4165-60-0	MS	1440	2230	64.4	38 - 112	
Nitrobenzene-d5	4165-60-0	MSD	1890	2310	81.8	38 - 112	
Phenol-d5	4165-62-2	MS	3020	4460	67.7	35 - 111	
Phenol-d5	4165-62-2	MSD	3760	4630	81.1	35 - 111	
Terphenyl-d14	98904-43-9	MS	1960	2230	87.8	45 - 126	
Terphenyl-d14	98904-43-9	MSD	2320	2310	100	45 - 126	

Method Blank 3907481 (MB) Created on 11/19/2024 15:41 For QC Batch 1335399

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4010	5000	80.3	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	2340	2500	93.6	40 - 110	
2-Fluorophenol	367-12-4	BLK	4470	5000	89.4	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	2370	2500	94.6	38 - 112	
Phenol-d5	4165-62-2	BLK	4660	5000	93.2	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2860	2500	114	45 - 126	

Lab Control Standard 3907482 (LCS) Created on 11/19/2024 15:41 For QC Batch 1335399

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1880		2500	75.2	51 - 102		
1,4-Dioxane	123-91-1	LCS	1790		2500	71.4	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	3730		5000	74.6	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4430		5000	88.5	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4340		5000	86.8	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4470		5000	89.4	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	5060		5000	101	59 - 133		
2,4-Dinitrophenol	51-28-5	LCS	3830		5000	76.5	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2350		2500	93.9	62 - 115		
2,6-Dinitrotoluene	606-20-2	LCS	2340		2500	93.7	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	2020		2500	80.8	59 - 104		
2-Chlorophenol	95-57-8	LCS	4870		5000	97.3	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4330		5000	86.6	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	2100		2500	84.1	59 - 108		
2-Nitroaniline	88-74-4	LCS	2230		2500	89.3	60 - 115		
2-Nitrophenol	88-75-5	LCS	4640		5000	92.8	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3690		5000	73.9	25 - 104		
3-Nitroaniline	99-09-2	LCS	2140		2500	85.6	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	2030		2500	81.4	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	4640		5000	92.7	59 - 115		
4-Chloroaniline	106-47-8	LCS	1920		2500	76.6	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	2060		2500	82.4	59 - 107		
4-Nitroaniline	100-01-6	LCS	2080		2500	83.3	49 - 121		
4-Nitrophenol	100-02-7	LCS	4540		5000	90.9	53 - 124		
Acenaphthene	83-32-9	LCS	2110		2500	84.5	61 - 105		
Acenaphthylene	208-96-8	LCS	1810		2500	72.4	63 - 106		
Acetophenone	98-86-2	LCS	2020		2500	81	33 - 98		
Anthracene	120-12-7	LCS	2120		2500	84.9	60 - 107		
Atrazine	1912-24-9	LCS	2130		2500	85	62 - 116		
Benzaldehyde	100-52-7	LCS	2200		2500	88.1	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2280		2500	91.1	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2280		2500	91.4	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2360		2500	94.5	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	2150		2500	86	57 - 119		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzo(k)fluoranthene	207-08-9	LCS	2190		2500	87.7	63 - 116		
Biphenyl	92-52-4	LCS	1950		2500	78.1	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	2300		2500	92.2	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	2430		2500	97.1	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	2500		2500	100	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	2320		2500	92.8	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	2630		2500	105	58 - 125		
Caprolactam	105-60-2	LCS	2160		2500	86.4	51 - 119		
Carbazole	86-74-8	LCS	2090		2500	83.4	66 - 117		
Chrysene	218-01-9	LCS	2230		2500	89.2	65 - 113		
Dibenzo(a,h)anthracene	53-70-3	LCS	2210		2500	88.3	59 - 116		
Dibenzofuran	132-64-9	LCS	2010		2500	80.3	62 - 106		
Diethylphthalate	84-66-2	LCS	2210		2500	88.5	59 - 112		
Dimethylphthalate	131-11-3	LCS	2120		2500	85	60 - 111		
Di-n-Butylphthalate	84-74-2	LCS	2440		2500	97.6	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	2420		2500	97	47 - 134		
Fluoranthene	206-44-0	LCS	2180		2500	87.4	61 - 114		
Fluorene	86-73-7	LCS	2120		2500	84.8	62 - 107		
Hexachlorobenzene	118-74-1	LCS	1970		2500	78.7	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2190		2500	87.7	56 - 127		
Hexachlorocyclopentadiene	77-47-4	LCS	1380		2500	55.3	20 - 124		
Hexachloroethane	67-72-1	LCS	2180		2500	87.1	57 - 101		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	2060		2500	82.6	53 - 118		
Isophorone	78-59-1	LCS	2160		2500	86.4	41 - 101		
mp-Cresol	108394/106445	LCS	4940		5000	98.8	60 - 109		
Naphthalene	91-20-3	LCS	2100		2500	84.1	60 - 102		
Nitrobenzene	98-95-3	LCS	2200		2500	88	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	2330		2500	93.2	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2490		2500	99.4	73 - 129		
o-Cresol	95-48-7	LCS	4620		5000	92.3	61 - 108		
Pentachlorophenol	87-86-5	LCS	2720		5000	54.4	46 - 138		
Phenanthrene	85-01-8	LCS	2040		2500	81.8	61 - 106		
Phenol	108-95-2	LCS	4780		5000	95.6	57 - 110		
Pyrene	129-00-0	LCS	2240		2500	89.6	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	3920	5000	78.5	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	2250	2500	90	40 - 110	
2-Fluorophenol	367-12-4	LCS	4550	5000	91.1	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2180	2500	87.3	38 - 112	
Phenol-d5	4165-62-2	LCS	4830	5000	96.7	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2760	2500	110	45 - 126	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

QC Batch

QC Batch	1336201	Prep Method	SW846 3546
Date	11/20/2024 15:00	Analysis Method	SW846 8270E
Tech.	GED		

Associated Samples

3388338005 3388338006 3388338007

Matrix Spike 3907973 (MS) 3388416009 (non-Project Sample) For QC Batch 1336201

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3907974 (MSD) 3388416009 (non-Project Sample) For QC Batch 1336201

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	MS	1600	0	2450	65.3	51 - 102		
1,2,4,5-Tetrachlorobenzene	95-94-3	MSD	1770	0	2310	76.5	51 - 102	RPD 10 (Max-19)	
1,4-Dioxane	123-91-1	MS	1170	0	2450	47.5	24 - 104		
1,4-Dioxane	123-91-1	MSD	1090	0	2310	47	24 - 104	RPD 6.85 (Max-30)	
2,3,4,6-Tetrachlorophenol	58-90-2	MS	3670	0	4900	74.9	55 - 111		
2,3,4,6-Tetrachlorophenol	58-90-2	MSD	3820	0	4630	82.4	55 - 111	RPD 3.94 (Max-20)	
2,4,5-Trichlorophenol	95-95-4	MS	3950	0	4900	80.5	60 - 108		
2,4,5-Trichlorophenol	95-95-4	MSD	4110	0	4630	88.8	60 - 108	RPD 4.12 (Max-22)	
2,4,6-Trichlorophenol	88-06-2	MS	3810	0	4900	77.6	59 - 111		
2,4,6-Trichlorophenol	88-06-2	MSD	3960	0	4630	85.6	59 - 111	RPD 4.01 (Max-20)	
2,4-Dichlorophenol	120-83-2	MS	3850	0	4900	78.5	61 - 109		
2,4-Dichlorophenol	120-83-2	MSD	3850	0	4630	83.2	61 - 109	RPD 0.15 (Max-20)	
2,4-Dimethylphenol	105-67-9	MS	3880	0	4900	79.1	59 - 133		
2,4-Dimethylphenol	105-67-9	MSD	3890	0	4630	84.1	59 - 133	RPD 0.36 (Max-23)	
2,4-Dinitrophenol	51-28-5	MS	3830	0	4900	78.2	28 - 135		
2,4-Dinitrophenol	51-28-5	MSD	3800	0	4630	82.2	28 - 135	RPD 0.80 (Max-30)	
2,4-Dinitrotoluene	121-14-2	MS	1880	0	2450	76.9	62 - 115		
2,4-Dinitrotoluene	121-14-2	MSD	2000	0	2310	86.4	62 - 115	RPD 6.01 (Max-21)	
2,6-Dinitrotoluene	606-20-2	MS	1950	0	2450	79.6	61 - 114		
2,6-Dinitrotoluene	606-20-2	MSD	1980	0	2310	85.4	61 - 114	RPD 1.29 (Max-20)	
2-Chloronaphthalene	91-58-7	MS	1530	0	2450	62.4	59 - 104		
2-Chloronaphthalene	91-58-7	MSD	1670	0	2310	72.1	59 - 104	RPD 8.73 (Max-19)	
2-Chlorophenol	95-57-8	MS	3800	0	4900	77.5	61 - 106		
2-Chlorophenol	95-57-8	MSD	3700	0	4630	79.9	61 - 106	RPD 2.66 (Max-22)	
2-Methyl-4,6-dinitrophenol	534-52-1	MS	4010	0	4900	81.7	39 - 113		
2-Methyl-4,6-dinitrophenol	534-52-1	MSD	4140	0	4630	89.5	39 - 113	RPD 3.39 (Max-30)	
2-Methylnaphthalene	91-57-6	MS	1820	0	2450	74.1	59 - 108		
2-Methylnaphthalene	91-57-6	MSD	1890	0	2310	81.6	59 - 108	RPD 3.92 (Max-21)	
2-Nitroaniline	88-74-4	MS	1750	0	2450	71.5	60 - 115		
2-Nitroaniline	88-74-4	MSD	1870	0	2310	80.8	60 - 115	RPD 6.57 (Max-19)	
2-Nitrophenol	88-75-5	MS	4050	0	4900	82.6	60 - 114		
2-Nitrophenol	88-75-5	MSD	4100	0	4630	88.6	60 - 114	RPD 1.38 (Max-23)	
3,3-Dichlorobenzidine	91-94-1	MS	2920	0	4900	59.6	25 - 104		
3,3-Dichlorobenzidine	91-94-1	MSD	3010	0	4630	65.1	25 - 104	RPD 3.21 (Max-26)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
3-Nitroaniline	99-09-2	MS	1820	0	2450	74.1	52 - 119		
3-Nitroaniline	99-09-2	MSD	1940	0	2310	83.7	52 - 119	RPD 6.49 (Max-22)	
4-Bromophenyl-phenylether	101-55-3	MS	1870	0	2450	76.2	60 - 110		
4-Bromophenyl-phenylether	101-55-3	MSD	2000	0	2310	86.2	60 - 110	RPD 6.67 (Max-21)	
4-Chloro-3-methylphenol	59-50-7	MS	3950	0	4900	80.5	59 - 115		
4-Chloro-3-methylphenol	59-50-7	MSD	3900	0	4630	84.2	59 - 115	RPD 1.24 (Max-20)	
4-Chloroaniline	106-47-8	MS	1750	0	2450	71.3	42 - 111		
4-Chloroaniline	106-47-8	MSD	1750	0	2310	75.7	42 - 111	RPD 0.36 (Max-22)	
4-Chlorophenyl-phenylether	7005-72-3	MS	1910	0	2450	78	59 - 107		
4-Chlorophenyl-phenylether	7005-72-3	MSD	2020	0	2310	87.1	59 - 107	RPD 5.26 (Max-18)	
4-Nitroaniline	100-01-6	MS	1840	0	2450	75.2	49 - 121		
4-Nitroaniline	100-01-6	MSD	1960	0	2310	84.6	49 - 121	RPD 6.12 (Max-19)	
4-Nitrophenol	100-02-7	MS	3180	0	4900	64.9	53 - 124		
4-Nitrophenol	100-02-7	MSD	3350	0	4630	72.3	53 - 124	RPD 5.14 (Max-21)	
Acenaphthene	83-32-9	MS	1600	0	2450	65.4	61 - 105		
Acenaphthene	83-32-9	MSD	1690	0	2310	72.9	61 - 105	RPD 5.23 (Max-17)	
Acenaphthylene	208-96-8	MS	1380	0	2450	56.2*	63 - 106		
Acenaphthylene	208-96-8	MSD	1480	0	2310	64.1	63 - 106	RPD 7.51 (Max-17)	
Acetophenone	98-86-2	MS	1600	0	2450	65.3	33 - 98		
Acetophenone	98-86-2	MSD	1600	0	2310	69.2	33 - 98	RPD 0.11 (Max-21)	
Anthracene	120-12-7	MS	1750	0	2450	71.5	60 - 107		
Anthracene	120-12-7	MSD	1810	0	2310	78.4	60 - 107	RPD 3.49 (Max-20)	
Atrazine	1912-24-9	MS	1950	0	2450	79.4	62 - 116		
Atrazine	1912-24-9	MSD	2050	0	2310	88.5	62 - 116	RPD 5.21 (Max-22)	
Benzaldehyde	100-52-7	MS	1790	0	2450	72.9	46 - 115		
Benzaldehyde	100-52-7	MSD	1510	0	2310	65.2	46 - 115	RPD 16.80 (Max-30)	
Benzo(a)anthracene	56-55-3	MS	1910	0	2450	77.9	61 - 113		
Benzo(a)anthracene	56-55-3	MSD	1990	0	2310	86	61 - 113	RPD 4.17 (Max-22)	
Benzo(a)pyrene	50-32-8	MS	1900	0	2450	77.3	68 - 121		
Benzo(a)pyrene	50-32-8	MSD	2020	0	2310	87.1	68 - 121	RPD 6.12 (Max-24)	
Benzo(b)fluoranthene	205-99-2	MS	1960	0	2450	79.8	64 - 115		
Benzo(b)fluoranthene	205-99-2	MSD	2040	0	2310	88.1	64 - 115	RPD 4.07 (Max-28)	
Benzo(g,h,i)perylene	191-24-2	MS	1910	0	2450	78.1	57 - 119		
Benzo(g,h,i)perylene	191-24-2	MSD	2010	0	2310	87	57 - 119	RPD 5.09 (Max-30)	
Benzo(k)fluoranthene	207-08-9	MS	1920	0	2450	78.3	63 - 116		
Benzo(k)fluoranthene	207-08-9	MSD	2030	0	2310	87.8	63 - 116	RPD 5.73 (Max-22)	
Biphenyl	92-52-4	MS	1480	0	2450	60.2	56 - 100		
Biphenyl	92-52-4	MSD	1550	0	2310	67.2	56 - 100	RPD 5.17 (Max-14)	
bis(2-Chloroethoxy)methane	111-91-1	MS	1730	0	2450	70.8	56 - 112		
bis(2-Chloroethoxy)methane	111-91-1	MSD	1780	0	2310	77.1	56 - 112	RPD 2.84 (Max-18)	
bis(2-Chloroethyl)ether	111-44-4	MS	1640	0	2450	67	51 - 109		
bis(2-Chloroethyl)ether	111-44-4	MSD	1690	0	2310	73.1	51 - 109	RPD 2.93 (Max-24)	
bis(2-Chloroisopropyl)ether	108-60-1	MS	1270	0	2450	51.7	38 - 120		
bis(2-Chloroisopropyl)ether	108-60-1	MSD	1300	0	2310	56.2	38 - 120	RPD 2.62 (Max-22)	
bis(2-Ethylhexyl)phthalate	117-81-7	MS	1940	0	2450	79.1	51 - 130		
bis(2-Ethylhexyl)phthalate	117-81-7	MSD	1910	0	2310	82.4	51 - 130	RPD 1.58 (Max-21)	
Butylbenzylphthalate	85-68-7	MS	1950	0	2450	79.7	58 - 125		
Butylbenzylphthalate	85-68-7	MSD	2010	0	2310	87	58 - 125	RPD 3.02 (Max-18)	
Caprolactam	105-60-2	MS	2010	0	2450	82	51 - 119		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Caprolactam	105-60-2	MSD	2020	0	2310	87.2	51 - 119	RPD 0.50 (Max-23)	
Carbazole	86-74-8	MS	1690	0	2450	68.8	66 - 117		
Carbazole	86-74-8	MSD	1790	0	2310	77.1	66 - 117	RPD 5.75 (Max-20)	
Chrysene	218-01-9	MS	1980	0	2450	80.6	65 - 113		
Chrysene	218-01-9	MSD	2060	0	2310	89.2	65 - 113	RPD 4.35 (Max-20)	
Dibenzo(a,h)anthracene	53-70-3	MS	1940	0	2450	79	59 - 116		
Dibenzo(a,h)anthracene	53-70-3	MSD	2030	0	2310	87.5	59 - 116	RPD 4.48 (Max-28)	
Dibenzofuran	132-64-9	MS	1630	0	2450	66.6	62 - 106		
Dibenzofuran	132-64-9	MSD	1750	0	2310	75.7	62 - 106	RPD 7.07 (Max-18)	
Diethylphthalate	84-66-2	MS	1740	0	2450	71	59 - 112		
Diethylphthalate	84-66-2	MSD	1770	0	2310	76.7	59 - 112	RPD 1.93 (Max-18)	
Dimethylphthalate	131-11-3	MS	1860	0	2450	75.9	60 - 111		
Dimethylphthalate	131-11-3	MSD	1840	0	2310	79.5	60 - 111	RPD 1.03 (Max-18)	
Di-n-Butylphthalate	84-74-2	MS	1770	30.90	2450	70.9	62 - 125		
Di-n-Butylphthalate	84-74-2	MSD	1830	30.90	2310	77.9	62 - 125	RPD 3.63 (Max-20)	
Di-n-Octylphthalate	117-84-0	MS	1820	0	2450	74.3	47 - 134		
Di-n-Octylphthalate	117-84-0	MSD	1850	0	2310	80	47 - 134	RPD 1.72 (Max-20)	
Fluoranthene	206-44-0	MS	1680	0	2450	68.4	61 - 114		
Fluoranthene	206-44-0	MSD	1800	0	2310	77.6	61 - 114	RPD 6.98 (Max-21)	
Fluorene	86-73-7	MS	1740	0	2450	71	62 - 107		
Fluorene	86-73-7	MSD	1830	0	2310	79.3	62 - 107	RPD 5.34 (Max-16)	
Hexachlorobenzene	118-74-1	MS	1770	0	2450	72.3	56 - 111		
Hexachlorobenzene	118-74-1	MSD	1860	0	2310	80.4	56 - 111	RPD 4.91 (Max-21)	
Hexachlorobutadiene	87-68-3	MS	1790	0	2450	73.1	56 - 127		
Hexachlorobutadiene	87-68-3	MSD	1860	0	2310	80.4	56 - 127	RPD 3.72 (Max-22)	
Hexachlorocyclopentadiene	77-47-4	MS	1360	0	2450	55.4	20 - 124		
Hexachlorocyclopentadiene	77-47-4	MSD	1460	0	2310	62.9	20 - 124	RPD 6.98 (Max-29)	
Hexachloroethane	67-72-1	MS	1350	0	2450	54.9*	57 - 101		
Hexachloroethane	67-72-1	MSD	1380	0	2310	59.5	57 - 101	RPD 2.24 (Max-28)	
Indeno(1,2,3-cd)pyrene	193-39-5	MS	1800	0	2450	73.4	53 - 118		
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	1890	0	2310	81.7	53 - 118	RPD 4.91 (Max-30)	
Isophorone	78-59-1	MS	1550	0	2450	63.1	41 - 101		
Isophorone	78-59-1	MSD	1600	0	2310	69	41 - 101	RPD 3.20 (Max-19)	
mp-Cresol	108394/106445	MS	2520	0	4900	51.4*	60 - 109		
mp-Cresol	108394/106445	MSD	2480	0	4630	53.6*	60 - 109	RPD 1.53 (Max-20)	
Naphthalene	91-20-3	MS	1620	0	2450	66.3	60 - 102		
Naphthalene	91-20-3	MSD	1720	0	2310	74.5	60 - 102	RPD 5.97 (Max-21)	
Nitrobenzene	98-95-3	MS	1440	0	2450	58.7	52 - 113		
Nitrobenzene	98-95-3	MSD	1460	0	2310	62.9	52 - 113	RPD 1.27 (Max-20)	
N-Nitroso-di-n-propylamine	621-64-7	MS	1600	0	2450	65.4	50 - 121		
N-Nitroso-di-n-propylamine	621-64-7	MSD	1630	0	2310	70.6	50 - 121	RPD 1.89 (Max-20)	
N-Nitrosodiphenylamine	86-30-6	MS	1930	0	2450	78.6	73 - 129		
N-Nitrosodiphenylamine	86-30-6	MSD	2010	0	2310	86.8	73 - 129	RPD 4.24 (Max-21)	
o-Cresol	95-48-7	MS	3660	0	4900	74.6	61 - 108		
o-Cresol	95-48-7	MSD	3540	0	4630	76.4	61 - 108	RPD 3.33 (Max-21)	
Pentachlorophenol	87-86-5	MS	3140	0	4900	64	46 - 138		
Pentachlorophenol	87-86-5	MSD	3240	0	4630	70.1	46 - 138	RPD 3.43 (Max-25)	
Phenanthrene	85-01-8	MS	1730	0	2450	70.8	61 - 106		
Phenanthrene	85-01-8	MSD	1820	0	2310	78.7	61 - 106	RPD 4.95 (Max-20)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Phenol	108-95-2	MS	3390	0	4900	69.1	57 - 110		
Phenol	108-95-2	MSD	3470	0	4630	75	57 - 110	RPD 2.44 (Max-23)	
Pyrene	129-00-0	MS	2100	0	2450	85.6	62 - 117		
Pyrene	129-00-0	MSD	2080	0	2310	90.1	62 - 117	RPD 0.69 (Max-20)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	4040	4900	82.5	19 - 132	
2,4,6-Tribromophenol	118-79-6	MSD	4310	4630	93.1	19 - 132	
2-Fluorobiphenyl	321-60-8	MS	1850	2450	75.3	40 - 110	
2-Fluorobiphenyl	321-60-8	MSD	1890	2310	81.5	40 - 110	
2-Fluorophenol	367-12-4	MS	3500	4900	71.3	26 - 116	
2-Fluorophenol	367-12-4	MSD	3450	4630	74.6	26 - 116	
Nitrobenzene-d5	4165-60-0	MS	1870	2450	76.3	38 - 112	
Nitrobenzene-d5	4165-60-0	MSD	1940	2310	83.7	38 - 112	
Phenol-d5	4165-62-2	MS	3720	4900	75.9	35 - 111	
Phenol-d5	4165-62-2	MSD	3680	4630	79.5	35 - 111	
Terphenyl-d14	98904-43-9	MS	2770	2450	113	45 - 126	
Terphenyl-d14	98904-43-9	MSD	2630	2310	114	45 - 126	

Method Blank 3907969 (MB) Created on 11/20/2024 13:10 For QC Batch 1336201

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4280	5000	85.6	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	2000	2500	80	40 - 110	
2-Fluorophenol	367-12-4	BLK	3880	5000	77.5	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	2150	2500	86	38 - 112	
Phenol-d5	4165-62-2	BLK	4250	5000	85	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2710	2500	108	45 - 126	

Lab Control Standard 3907970 (LCS) Created on 11/20/2024 13:11 For QC Batch 1336201

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1820		2500	72.8	51 - 102		
1,4-Dioxane	123-91-1	LCS	1410		2500	56.4	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	4260		5000	85.3	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4480		5000	89.6	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4220		5000	84.4	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4380		5000	87.7	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	4420		5000	88.4	59 - 133		
2,4-Dinitrophenol	51-28-5	LCS	4630		5000	92.7	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2160		2500	86.2	62 - 115		
2,6-Dinitrotoluene	606-20-2	LCS	2130		2500	85.4	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	1770		2500	70.6	59 - 104		
2-Chlorophenol	95-57-8	LCS	4460		5000	89.1	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4570		5000	91.5	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	2110		2500	84.4	59 - 108		
2-Nitroaniline	88-74-4	LCS	2000		2500	79.9	60 - 115		
2-Nitrophenol	88-75-5	LCS	4580		5000	91.6	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3470		5000	69.3	25 - 104		
3-Nitroaniline	99-09-2	LCS	2090		2500	83.7	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	2100		2500	84.2	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	4560		5000	91.3	59 - 115		
4-Chloroaniline	106-47-8	LCS	1980		2500	79	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	2150		2500	85.9	59 - 107		
4-Nitroaniline	100-01-6	LCS	2100		2500	84.2	49 - 121		
4-Nitrophenol	100-02-7	LCS	3810		5000	76.1	53 - 124		
Acenaphthene	83-32-9	LCS	1850		2500	74.1	61 - 105		
Acenaphthylene	208-96-8	LCS	1600		2500	63.9	63 - 106		
Acetophenone	98-86-2	LCS	1830		2500	73.3	33 - 98		
Anthracene	120-12-7	LCS	2060		2500	82.3	60 - 107		
Atrazine	1912-24-9	LCS	2270		2500	90.7	62 - 116		
Benzaldehyde	100-52-7	LCS	2010		2500	80.4	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2140		2500	85.6	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2160		2500	86.6	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2330		2500	93.1	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	1880		2500	75.3	57 - 119		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzo(k)fluoranthene	207-08-9	LCS	2280		2500	91.3	63 - 116		
Biphenyl	92-52-4	LCS	1660		2500	66.6	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	1970		2500	78.7	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	1950		2500	77.9	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	1500		2500	59.9	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	2000		2500	80.2	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	2060		2500	82.4	58 - 125		
Caprolactam	105-60-2	LCS	2310		2500	92.3	51 - 119		
Carbazole	86-74-8	LCS	1980		2500	79.4	66 - 117		
Chrysene	218-01-9	LCS	2180		2500	87.3	65 - 113		
Dibenzo(a,h)anthracene	53-70-3	LCS	1940		2500	77.6	59 - 116		
Dibenzofuran	132-64-9	LCS	1890		2500	75.7	62 - 106		
Diethylphthalate	84-66-2	LCS	1970		2500	78.6	59 - 112		
Dimethylphthalate	131-11-3	LCS	2110		2500	84.3	60 - 111		
Di-n-Butylphthalate	84-74-2	LCS	2040		2500	81.6	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	1970		2500	78.9	47 - 134		
Fluoranthene	206-44-0	LCS	2090		2500	83.6	61 - 114		
Fluorene	86-73-7	LCS	1980		2500	79.2	62 - 107		
Hexachlorobenzene	118-74-1	LCS	2000		2500	80	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2090		2500	83.7	56 - 127		
Hexachlorocyclopentadiene	77-47-4	LCS	1610		2500	64.4	20 - 124		
Hexachloroethane	67-72-1	LCS	1640		2500	65.6	57 - 101		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	1800		2500	71.9	53 - 118		
Isophorone	78-59-1	LCS	1820		2500	72.9	41 - 101		
mp-Cresol	108394/106445	LCS	2940		5000	58.8*	60 - 109		
Naphthalene	91-20-3	LCS	1880		2500	75.1	60 - 102		
Nitrobenzene	98-95-3	LCS	1640		2500	65.5	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	1890		2500	75.5	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2170		2500	86.6	73 - 129		
o-Cresol	95-48-7	LCS	4330		5000	86.7	61 - 108		
Pentachlorophenol	87-86-5	LCS	3990		5000	79.9	46 - 138		
Phenanthrene	85-01-8	LCS	2030		2500	81.2	61 - 106		
Phenol	108-95-2	LCS	4230		5000	84.7	57 - 110		
Pyrene	129-00-0	LCS	2150		2500	86	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	4680	5000	93.6	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	2070	2500	82.9	40 - 110	
2-Fluorophenol	367-12-4	LCS	4220	5000	84.3	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2130	2500	85.3	38 - 112	
Phenol-d5	4165-62-2	LCS	4340	5000	86.7	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2820	2500	113	45 - 126	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1342493	Prep Method	SW846 5035A
Date	11/23/2024 08:46	Analysis Method	SW846 8260D
Tech.	JTH		

Associated Samples

3388338001 3388338002 3388338005 3388338006

Matrix Spike 3910550 (MS) 3389139001 (non-Project Sample) For QC Batch 1342493

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3910551 (MSD) 3389139001 (non-Project Sample) For QC Batch 1342493

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	7120	0	6850	104	69 - 136		
1,1,1-Trichloroethane	71-55-6	MSD	7580	0	6850	111	69 - 136	RPD 6.33 (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	5890	0	6850	86	69 - 125		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	6110	0	6850	89.3	69 - 125	RPD 3.78 (Max-40)	
1,1,2-Trichloroethane	79-00-5	MS	7080	0	6850	103	70 - 128		
1,1,2-Trichloroethane	79-00-5	MSD	7360	0	6850	107	70 - 128	RPD 3.90 (Max-40)	
1,1-Dichloroethane	75-34-3	MS	7890	0	6850	115	68 - 137		
1,1-Dichloroethane	75-34-3	MSD	8340	0	6850	122	68 - 137	RPD 5.56 (Max-40)	
1,1-Dichloroethene	75-35-4	MS	7980	0	6850	117	62 - 135		
1,1-Dichloroethene	75-35-4	MSD	8550	0	6850	125	62 - 135	RPD 6.86 (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	MS	7410	0	6850	108	41 - 143		
1,2,3-Trichlorobenzene	87-61-6	MSD	7820	0	6850	114	41 - 143	RPD 5.38 (Max-40)	
1,2,3-Trichloropropane	96-18-4	MS	6910	0	6850	101	63 - 133		
1,2,3-Trichloropropane	96-18-4	MSD	6420	0	6850	93.8	63 - 133	RPD 7.26 (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	MS	6810	0	6850	99.4	61 - 134		
1,2,4-Trichlorobenzene	120-82-1	MSD	7230	0	6850	106	61 - 134	RPD 6.09 (Max-40)	
1,2,4-Trimethylbenzene	95-63-6	MS	7920	0	6850	116	75 - 134		
1,2,4-Trimethylbenzene	95-63-6	MSD	7360	0	6850	108	75 - 134	RPD 7.31 (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	6190	0	6850	90.3	37 - 131		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	6660	0	6850	97.2	37 - 131	RPD 7.31 (Max-40)	
1,2-Dibromoethane	106-93-4	MS	7020	0	6850	102	69 - 130		
1,2-Dibromoethane	106-93-4	MSD	7330	0	6850	107	69 - 130	RPD 4.35 (Max-40)	
1,2-Dichlorobenzene	95-50-1	MS	6510	0	6850	95.1	73 - 127		
1,2-Dichlorobenzene	95-50-1	MSD	7770	0	6850	113	73 - 127	RPD 17.60 (Max-40)	
1,2-Dichloroethane	107-06-2	MS	7370	0	6850	108	62 - 139		
1,2-Dichloroethane	107-06-2	MSD	7900	0	6850	115	62 - 139	RPD 6.92 (Max-40)	
1,2-Dichloroethene, Total	540-59-0	MS	15900	0	13700	116	68 - 137		
1,2-Dichloroethene, Total	540-59-0	MSD	17100	0	13700	125	68 - 137	RPD 7.53 (Max-)	
1,2-Dichloropropane	78-87-5	MS	7330	0	6850	107	77 - 133		
1,2-Dichloropropane	78-87-5	MSD	7830	0	6850	114	77 - 133	RPD 6.59 (Max-40)	
1,3,5-Trimethylbenzene	108-67-8	MS	8220	90	6850	119	74 - 137		
1,3,5-Trimethylbenzene	108-67-8	MSD	7570	90	6850	109	74 - 137	RPD 8.21 (Max-40)	
1,3-Dichlorobenzene	541-73-1	MS	7450	0	6850	109	73 - 130		
1,3-Dichlorobenzene	541-73-1	MSD	7560	0	6850	110	73 - 130	RPD 1.43 (Max-40)	
1,4-Dichlorobenzene	106-46-7	MS	7140	0	6850	104	74 - 127		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dichlorobenzene	106-46-7	MSD	7600	0	6850	111	74 - 127	RPD 6.30 (Max-40)	
2-Butanone	78-93-3	MS	43500	0	34200	127	51 - 151		
2-Butanone	78-93-3	MSD	45500	0	34200	133	51 - 151	RPD 4.52 (Max-40)	
2-Hexanone	591-78-6	MS	35900	1950	34200	99.1	66 - 133		
2-Hexanone	591-78-6	MSD	37700	1950	34200	104	66 - 133	RPD 4.92 (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	40200	0	34200	117	70 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	42700	0	34200	125	70 - 130	RPD 5.95 (Max-40)	
Acetone	67-64-1	MS	36700	5060	34200	92.3	42 - 154		
Acetone	67-64-1	MSD	34800	5060	34200	86.9	42 - 154	RPD 5.26 (Max-40)	
Benzene	71-43-2	MS	7870	0	6850	115	77 - 134		
Benzene	71-43-2	MSD	8300	0	6850	121	77 - 134	RPD 5.23 (Max-40)	
Bromochloromethane	74-97-5	MS	7820	0	6850	114	70 - 124		
Bromochloromethane	74-97-5	MSD	8120	0	6850	119	70 - 124	RPD 3.70 (Max-40)	
Bromodichloromethane	75-27-4	MS	7100	0	6850	104	73 - 133		
Bromodichloromethane	75-27-4	MSD	7600	0	6850	111	73 - 133	RPD 6.86 (Max-40)	
Bromoform	75-25-2	MS	6060	0	6850	88.4	62 - 118		
Bromoform	75-25-2	MSD	6380	0	6850	93.1	62 - 118	RPD 5.19 (Max-40)	
Bromomethane	74-83-9	MS	5350	202	6850	75.2	41 - 143		
Bromomethane	74-83-9	MSD	5760	202	6850	81.2	41 - 143	RPD 7.40 (Max-40)	
Carbon Disulfide	75-15-0	MS	5780	0	6850	84.5	48 - 145		
Carbon Disulfide	75-15-0	MSD	6490	0	6850	94.8	48 - 145	RPD 11.50 (Max-40)	
Carbon Tetrachloride	56-23-5	MS	6290	0	6850	91.8	64 - 139		
Carbon Tetrachloride	56-23-5	MSD	6540	0	6850	95.5	64 - 139	RPD 3.94 (Max-40)	
Chlorobenzene	108-90-7	MS	7450	0	6850	109	76 - 130		
Chlorobenzene	108-90-7	MSD	7880	0	6850	115	76 - 130	RPD 5.56 (Max-40)	
Chlorodibromomethane	124-48-1	MS	6460	0	6850	94.3	69 - 122		
Chlorodibromomethane	124-48-1	MSD	6800	0	6850	99.3	69 - 122	RPD 5.17 (Max-40)	
Chloroethane	75-00-3	MS	3460	0	6850	50.6	14 - 152		
Chloroethane	75-00-3	MSD	4220	0	6850	61.5	14 - 152	RPD 19.60 (Max-40)	
Chloroform	67-66-3	MS	8010	0	6850	117	75 - 127		
Chloroform	67-66-3	MSD	8460	0	6850	123	75 - 127	RPD 5.50 (Max-40)	
Chloromethane	74-87-3	MS	6870	0	6850	100	31 - 167		
Chloromethane	74-87-3	MSD	7390	0	6850	108	31 - 167	RPD 7.33 (Max-40)	
cis-1,2-Dichloroethene	156-59-2	MS	7900	0	6850	115	68 - 137		
cis-1,2-Dichloroethene	156-59-2	MSD	8400	0	6850	123	68 - 137	RPD 6.13 (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	MS	6010	0	6850	87.8	70 - 129		
cis-1,3-Dichloropropene	10061-01-5	MSD	6340	0	6850	92.6	70 - 129	RPD 5.36 (Max-40)	
Cyclohexane	110-82-7	MS	8730	0	6850	127	63 - 151		
Cyclohexane	110-82-7	MSD	9330	0	6850	136	63 - 151	RPD 6.59 (Max-40)	
Dichlorodifluoromethane	75-71-8	MS	6400	0	6850	93.4	10 - 180		
Dichlorodifluoromethane	75-71-8	MSD	6200	0	6850	90.5	10 - 180	RPD 3.18 (Max-40)	
Ethylbenzene	100-41-4	MS	8140	387	6850	113	76 - 136		
Ethylbenzene	100-41-4	MSD	8790	387	6850	123	76 - 136	RPD 7.73 (Max-40)	
Freon 113	76-13-1	MS	6950	0	6850	101	42 - 109		
Freon 113	76-13-1	MSD	7570	0	6850	110*	42 - 109	RPD 8.47 (Max-40)	
Isopropylbenzene	98-82-8	MS	8130	0	6850	119	72 - 137		
Isopropylbenzene	98-82-8	MSD	8510	0	6850	124	72 - 137	RPD 4.66 (Max-40)	
Methyl acetate	79-20-9	MS	9040	1500	6850	110	70 - 130		
Methyl acetate	79-20-9	MSD	9460	1500	6850	116	70 - 130	RPD 4.54 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl cyclohexane	108-87-2	MS	9340	0	6850	136*	70 - 130		
Methyl cyclohexane	108-87-2	MSD	10100	0	6850	148*	70 - 130	RPD 8.04 (Max-40)	
Methyl t-Butyl Ether	1634-04-4	MS	6750	0	6850	98.6	65 - 120		
Methyl t-Butyl Ether	1634-04-4	MSD	7160	0	6850	104	65 - 120	RPD 5.84 (Max-40)	
Methylene Chloride	75-09-2	MS	7600	0	6850	111	73 - 129		
Methylene Chloride	75-09-2	MSD	7800	0	6850	114	73 - 129	RPD 2.50 (Max-40)	
mp-Xylene	108383/106423	MS	16400	558	13700	115	75 - 137		
mp-Xylene	108383/106423	MSD	17400	558	13700	123	75 - 137	RPD 6.36 (Max-40)	
o-Xylene	95-47-6	MS	8360	358	6850	117	74 - 135		
o-Xylene	95-47-6	MSD	8930	358	6850	125	74 - 135	RPD 6.54 (Max-40)	
Styrene	100-42-5	MS	7750	0	6850	113	72 - 134		
Styrene	100-42-5	MSD	8060	0	6850	118	72 - 134	RPD 3.91 (Max-40)	
Tetrachloroethene	127-18-4	MS	8190	0	6850	120	73 - 134		
Tetrachloroethene	127-18-4	MSD	8630	0	6850	126	73 - 134	RPD 5.23 (Max-40)	
Toluene	108-88-3	MS	8030	751	6850	106	73 - 134		
Toluene	108-88-3	MSD	8450	751	6850	112	73 - 134	RPD 5.12 (Max-40)	
Total Xylenes	1330-20-7	MS	24700	916	20500	116	75 - 136		
Total Xylenes	1330-20-7	MSD	26400	916	20500	124	75 - 136	RPD 6.42 (Max-40)	
trans-1,2-Dichloroethene	156-60-5	MS	7980	0	6850	116	69 - 130		
trans-1,2-Dichloroethene	156-60-5	MSD	8720	0	6850	127	69 - 130	RPD 8.90 (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	MS	6990	0	6850	102	67 - 129		
trans-1,3-Dichloropropene	10061-02-6	MSD	7260	0	6850	106	67 - 129	RPD 3.87 (Max-40)	
Trichloroethene	79-01-6	MS	7610	0	6850	111	77 - 134		
Trichloroethene	79-01-6	MSD	8120	0	6850	118	77 - 134	RPD 6.38 (Max-40)	
Trichlorofluoromethane	75-69-4	MS	3860	0	6850	56.3	27 - 121		
Trichlorofluoromethane	75-69-4	MSD	4330	0	6850	63.3	27 - 121	RPD 11.50 (Max-40)	
Vinyl Chloride	75-01-4	MS	7550	0	6850	110	5 - 200		
Vinyl Chloride	75-01-4	MSD	7060	0	6850	103	5 - 200	RPD 6.78 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	12000	10300	117	71 - 146	
1,2-Dichloroethane-d4	17060-07-0	MSD	11900	10300	116	71 - 146	
4-Bromofluorobenzene	460-00-4	MS	11000	10300	107	46 - 138	
4-Bromofluorobenzene	460-00-4	MSD	10500	10300	102	46 - 138	
Dibromofluoromethane	1868-53-7	MS	11900	10300	116	42 - 143	
Dibromofluoromethane	1868-53-7	MSD	11700	10300	114	42 - 143	
Toluene-d8	2037-26-5	MS	10800	10300	105	54 - 141	
Toluene-d8	2037-26-5	MSD	10600	10300	103	54 - 141	

Method Blank 3910323 (MB) Created on 11/26/2024 08:41 For QC Batch 1342493

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	50.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	50.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	100	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	100	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	43.5J	ug/kg	100	J
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	50.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	350	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	50.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	100	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	50.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	11.2J	ug/kg	50.0	J
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	50.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	50.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	500	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	250	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	250	ND
Acetone	67-64-1	BLK	ND	ug/kg	500	ND
Benzene	71-43-2	BLK	ND	ug/kg	50.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	50.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	50.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	50.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	50.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	50.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	50.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	50.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	50.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	50.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	50.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	50.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	50.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	50.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	50.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	50.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	50.0	ND
Freon 113	76-13-1	BLK	ND	ug/kg	50.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	50.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	100	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	50.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	50.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	50.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/kg	100	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	50.0	ND
Styrene	100-42-5	BLK	ND	ug/kg	50.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Toluene	108-88-3	BLK	ND	ug/kg	50.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	150	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	50.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	50.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	50.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	50.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	1500	1500	100	71 - 146	
4-Bromofluorobenzene	460-00-4	BLK	1420	1500	94.4	46 - 138	
Dibromofluoromethane	1868-53-7	BLK	1370	1500	91.1	42 - 143	
Toluene-d8	2037-26-5	BLK	1460	1500	97.6	54 - 141	

Lab Control Standard 3910324 (LCS) Created on 11/26/2024 08:41 For QC Batch 1342493

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	777		1000	77.7	69 - 136		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	960		1000	96	69 - 125		
1,1,2-Trichloroethane	79-00-5	LCS	941		1000	94.1	70 - 128		
1,1-Dichloroethane	75-34-3	LCS	903		1000	90.3	68 - 137		
1,1-Dichloroethene	75-35-4	LCS	907		1000	90.7	62 - 135		
1,2,3-Trichlorobenzene	87-61-6	LCS	1160		1000	116	41 - 143		
1,2,3-Trichloropropane	96-18-4	LCS	982		1000	98.2	63 - 133		
1,2,4-Trichlorobenzene	120-82-1	LCS	1020		1000	102	61 - 134		
1,2,4-Trimethylbenzene	95-63-6	LCS	900		1000	90	75 - 134		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	1120		1000	112	37 - 131		
1,2-Dibromoethane	106-93-4	LCS	980		1000	98	69 - 130		
1,2-Dichlorobenzene	95-50-1	LCS	918		1000	91.8	73 - 127		
1,2-Dichloroethane	107-06-2	LCS	878		1000	87.8	62 - 139		
1,2-Dichloroethene, Total	540-59-0	LCS	1850		2000	92.4	68 - 137		
1,2-Dichloropropane	78-87-5	LCS	893		1000	89.3	77 - 133		
1,3,5-Trimethylbenzene	108-67-8	LCS	922		1000	92.2	74 - 137		
1,3-Dichlorobenzene	541-73-1	LCS	899		1000	89.9	73 - 130		
1,4-Dichlorobenzene	106-46-7	LCS	899		1000	89.9	74 - 127		
2-Butanone	78-93-3	LCS	6480		5000	130	51 - 151		
2-Hexanone	591-78-6	LCS	5640		5000	113	66 - 133		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	5850		5000	117	70 - 130		
Acetone	67-64-1	LCS	7260		5000	145	42 - 154		
Benzene	71-43-2	LCS	907		1000	90.7	77 - 134		
Bromochloromethane	74-97-5	LCS	1010		1000	101	70 - 124		
Bromodichloromethane	75-27-4	LCS	898		1000	89.8	73 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromoform	75-25-2	LCS	1000		1000	100	62 - 118		
Bromomethane	74-83-9	LCS	767		1000	76.7	41 - 143		
Carbon Disulfide	75-15-0	LCS	803		1000	80.3	48 - 145		
Carbon Tetrachloride	56-23-5	LCS	697		1000	69.7	64 - 139		
Chlorobenzene	108-90-7	LCS	939		1000	93.9	76 - 130		
Chlorodibromomethane	124-48-1	LCS	899		1000	89.9	69 - 122		
Chloroethane	75-00-3	LCS	487		1000	48.7	14 - 152		
Chloroform	67-66-3	LCS	920		1000	92	75 - 127		
Chloromethane	74-87-3	LCS	789		1000	78.9	31 - 167		
cis-1,2-Dichloroethene	156-59-2	LCS	937		1000	93.7	68 - 137		
cis-1,3-Dichloropropene	10061-01-5	LCS	784		1000	78.4	70 - 129		
Cyclohexane	110-82-7	LCS	956		1000	95.6	63 - 151		
Dichlorodifluoromethane	75-71-8	LCS	687		1000	68.7	10 - 180		
Ethylbenzene	100-41-4	LCS	965		1000	96.5	76 - 136		
Freon 113	76-13-1	LCS	814		1000	81.4	42 - 109		
Isopropylbenzene	98-82-8	LCS	999		1000	99.9	72 - 137		
Methyl acetate	79-20-9	LCS	1290		1000	129	70 - 130		
Methyl cyclohexane	108-87-2	LCS	1070		1000	107	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	882		1000	88.2	65 - 120		
Methylene Chloride	75-09-2	LCS	935		1000	93.5	73 - 129		
mp-Xylene	108383/106423	LCS	1930		2000	96.7	75 - 137		
o-Xylene	95-47-6	LCS	998		1000	99.8	74 - 135		
Styrene	100-42-5	LCS	1020		1000	102	72 - 134		
Tetrachloroethene	127-18-4	LCS	848		1000	84.8	73 - 134		
Toluene	108-88-3	LCS	876		1000	87.6	73 - 134		
Total Xylenes	1330-20-7	LCS	2930		3000	97.7	75 - 136		
trans-1,2-Dichloroethene	156-60-5	LCS	911		1000	91.1	69 - 130		
trans-1,3-Dichloropropene	10061-02-6	LCS	859		1000	85.9	67 - 129		
Trichloroethene	79-01-6	LCS	864		1000	86.4	77 - 134		
Trichlorofluoromethane	75-69-4	LCS	793		1000	79.3	27 - 121		
Vinyl Chloride	75-01-4	LCS	924		1000	92.4	5 - 200		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	1600	1500	107	71 - 146	
4-Bromofluorobenzene	460-00-4	LCS	1660	1500	111	46 - 138	
Dibromofluoromethane	1868-53-7	LCS	1690	1500	112	42 - 143	
Toluene-d8	2037-26-5	LCS	1580	1500	105	54 - 141	

QC Batch

QC Batch	1344288	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3388338008

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Matrix Spike 3910663 (MS) 3388070047 (non-Project Sample) For QC Batch 1344288

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	23.7	0	20	119	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.1	0	20	116	74 - 135		
1,1,2-Trichloroethane	79-00-5	MS	21.7	0	20	108	82 - 126		
1,1-Dichloroethane	75-34-3	MS	23	0	20	115	78 - 124		
1,1-Dichloroethene	75-35-4	MS	24.5	0	20	122	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	MS	21.2	0	20	106	61 - 126		
1,2,3-Trichloropropane	96-18-4	MS	22.2	0	20	111	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	MS	23.6	0	20	118	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	MS	23.5	0	20	117	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	MS	21.4	0	20	107	59 - 133		
1,2-Dibromoethane	106-93-4	MS	20	0	20	100	80 - 124		
1,2-Dichlorobenzene	95-50-1	MS	22.1	0	20	111	82 - 118		
1,2-Dichloroethane	107-06-2	MS	22	0	20	110	70 - 133		
1,2-Dichloropropane	78-87-5	MS	23.1	0	20	116	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	MS	23.5	0	20	117	76 - 125		
1,3-Dichlorobenzene	541-73-1	MS	21.5	0	20	107	81 - 118		
1,4-Dichlorobenzene	106-46-7	MS	21.6	0	20	108	81 - 116		
2-Butanone	78-93-3	MS	107	0	100	107	50 - 152		
2-Hexanone	591-78-6	MS	106	0	100	106	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	105	0	100	105	71 - 146		
Acetone	67-64-1	MS	96.5	0	100	96.5	40 - 151		
Benzene	71-43-2	MS	22.7	0	20	114	80 - 124		
Bromochloromethane	74-97-5	MS	22.7	0	20	114	73 - 117		
Bromodichloromethane	75-27-4	MS	23.7	0	20	118	79 - 126		
Bromoform	75-25-2	MS	17.3	0	20	86.4	70 - 123		
Bromomethane	74-83-9	MS	18.3	0	20	91.6	45 - 148		
Carbon Disulfide	75-15-0	MS	23	0	20	115	57 - 131		
Carbon Tetrachloride	56-23-5	MS	22.7	0	20	113	62 - 132		
Chlorobenzene	108-90-7	MS	20.7	0	20	104	85 - 117		
Chlorodibromomethane	124-48-1	MS	20.8	0	20	104	77 - 122		
Chloroethane	75-00-3	MS	22.5	0	20	112	51 - 142		
Chloroform	67-66-3	MS	22.9	0	20	114	78 - 122		
Chloromethane	74-87-3	MS	18.9	0.45	20	92.2	38 - 156		
cis-1,2-Dichloroethene	156-59-2	MS	24.2	0.68	20	117	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	MS	21	0	20	105	81 - 121		
Cyclohexane	110-82-7	MS	24	0	20	120	66 - 130		
Dichlorodifluoromethane	75-71-8	MS	18.2	0	20	90.8	17 - 166		
Ethylbenzene	100-41-4	MS	21.1	0	20	106	80 - 124		
Freon 113	76-13-1	MS	23.7	0	20	119	50 - 130		
Isopropylbenzene	98-82-8	MS	25.2	0	20	126	73 - 129		
Methyl acetate	79-20-9	MS	19.2	0	20	96.1	70 - 130		
Methyl cyclohexane	108-87-2	MS	22.8	0	20	114	70 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl t-Butyl Ether	1634-04-4	MS	22.9	0	20	115	69 - 115		
Methylene Chloride	75-09-2	MS	22.7	0	20	113	76 - 121		
mp-Xylene	108383/106423	MS	42.9	0	40	107	79 - 125		
o-Xylene	95-47-6	MS	21.2	0	20	106	79 - 124		
Styrene	100-42-5	MS	23.2	0	20	116	79 - 123		
Tetrachloroethene	127-18-4	MS	18.5	0	20	92.4	72 - 124		
Toluene	108-88-3	MS	21.7	0	20	109	80 - 125		
Total Xylenes	1330-20-7	MS	64.1	0	60	107	79 - 125		
trans-1,2-Dichloroethene	156-60-5	MS	23.5	0	20	117	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	MS	18.2	0	20	91	78 - 126		
Trichloroethene	79-01-6	MS	25.4	3.20	20	111	77 - 124		
Trichlorofluoromethane	75-69-4	MS	23.2	0	20	116	38 - 123		
Vinyl Chloride	75-01-4	MS	20.8	0	20	104	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.7	30	106	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	27.6	30	91.9	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.1	30	100	78 - 116	
Toluene-d8	2037-26-5	MS	28.9	30	96.3	76 - 127	

Duplicate 3910664 (DUP) 3388587002 (non-Project Sample) For QC Batch 1344288

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,1,1-Trichloroethane	71-55-6	DUP	0	0	RPD	0	(Max-)	ND
1,1,2,2-Tetrachloroethane	79-34-5	DUP	0	0	RPD	0	(Max-)	ND
1,1,2-Trichloroethane	79-00-5	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethane	75-34-3	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethene	75-35-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichlorobenzene	87-61-6	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichloropropane	96-18-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trichlorobenzene	120-82-1	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trimethylbenzene	95-63-6	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromo-3-chloropropane	96-12-8	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromoethane	106-93-4	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichlorobenzene	95-50-1	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloroethane	107-06-2	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloropropane	78-87-5	DUP	0	0	RPD	0	(Max-)	ND
1,3,5-Trimethylbenzene	108-67-8	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,3-Dichlorobenzene	541-73-1	DUP	0	0	RPD	0	(Max-)	ND
1,4-Dichlorobenzene	106-46-7	DUP	0	0	RPD	0	(Max-)	ND
2-Butanone	78-93-3	DUP	0	0	RPD	0	(Max-)	ND
2-Hexanone	591-78-6	DUP	0	0	RPD	0	(Max-)	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	DUP	0	0	RPD	0	(Max-)	ND
Acetone	67-64-1	DUP	0	0	RPD	0	(Max-)	ND
Benzene	71-43-2	DUP	0.3776	0.3809	RPD	0.85	(Max-)	J
Bromochloromethane	74-97-5	DUP	0	0	RPD	0	(Max-)	ND
Bromodichloromethane	75-27-4	DUP	0	0	RPD	0	(Max-)	ND
Bromoform	75-25-2	DUP	0	0	RPD	0	(Max-)	ND
Bromomethane	74-83-9	DUP	0	0	RPD	0	(Max-)	ND
Carbon Disulfide	75-15-0	DUP	0	0	RPD	0	(Max-)	ND
Carbon Tetrachloride	56-23-5	DUP	0	0	RPD	0	(Max-)	ND
Chlorobenzene	108-90-7	DUP	1.2210	1.2351	RPD	1.15	(Max-)	
Chlorodibromomethane	124-48-1	DUP	0	0	RPD	0	(Max-)	ND
Chloroethane	75-00-3	DUP	0	0	RPD	0	(Max-)	ND
Chloroform	67-66-3	DUP	0	0	RPD	0	(Max-)	ND
Chloromethane	74-87-3	DUP	0.3507	0.4257	RPD	19.30	(Max-)	J
cis-1,2-Dichloroethene	156-59-2	DUP	22.1506	22.1116	RPD	0.18	(Max-)	
cis-1,3-Dichloropropene	10061-01-5	DUP	0	0	RPD	0	(Max-)	ND
Cyclohexane	110-82-7	DUP	0	0	RPD	0	(Max-)	ND
Dichlorodifluoromethane	75-71-8	DUP	0	0	RPD	0	(Max-)	ND
Ethylbenzene	100-41-4	DUP	0	0	RPD	0	(Max-)	ND
Freon 113	76-13-1	DUP	0	0	RPD	0	(Max-)	ND
Isopropylbenzene	98-82-8	DUP	0	0	RPD	0	(Max-)	ND
Methyl acetate	79-20-9	DUP	0.3431	0	RPD	200	(Max-)	J
Methyl cyclohexane	108-87-2	DUP	0	0	RPD	0	(Max-)	ND
Methyl t-Butyl Ether	1634-04-4	DUP	0	0	RPD	0	(Max-)	ND
Methylene Chloride	75-09-2	DUP	0	0	RPD	0	(Max-)	ND
mp-Xylene	108383/106423	DUP	0	0	RPD	0	(Max-)	ND
o-Xylene	95-47-6	DUP	0	0	RPD	0	(Max-)	ND
Styrene	100-42-5	DUP	0	0	RPD	0	(Max-)	ND
Tetrachloroethene	127-18-4	DUP	0	0	RPD	0	(Max-)	ND
Toluene	108-88-3	DUP	0	0	RPD	0	(Max-)	ND
Total Xylenes	1330-20-7	DUP	0	0	RPD	0	(Max-)	ND
trans-1,2-Dichloroethene	156-60-5	DUP	0	0	RPD	0	(Max-)	ND
trans-1,3-Dichloropropene	10061-02-6	DUP	0	0	RPD	0	(Max-)	ND
Trichloroethene	79-01-6	DUP	0.60	0.5708	RPD	4.99	(Max-)	J
Trichlorofluoromethane	75-69-4	DUP	0	0	RPD	0	(Max-)	ND
Vinyl Chloride	75-01-4	DUP	8.0289	8.2327	RPD	2.51	(Max-)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	DUP	29.3	30	97.7	62 - 133	
4-Bromofluorobenzene	460-00-4	DUP	28.7	30	95.5	79 - 114	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Dibromofluoromethane	1868-53-7	DUP	29.3	30	97.7	78 - 116	
Toluene-d8	2037-26-5	DUP	30.1	30	100	76 - 127	

Method Blank 3910643 (MB) Created on 11/26/2024 14:02 For QC Batch 1344288

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.1	30	97	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.8	30	99.3	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.3	30	97.7	78 - 116	
Toluene-d8	2037-26-5	BLK	30.4	30	101	76 - 127	

Lab Control Standard 3910644 (LCS) Created on 11/26/2024 14:02 For QC Batch 1344288

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	20.6		20	103	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	24.4		20	122	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	20.8		20	104	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.2		20	101	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.5		20	108	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.3		20	112	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	23.4		20	117	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.3		20	117	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	21.7		20	109	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	25		20	125	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	19.9		20	99.7	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.1		20	101	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.8		20	104	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.5		20	103	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.4		20	107	76 - 125		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,3-Dichlorobenzene	541-73-1	LCS	20.3		20	102	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.1		20	101	81 - 116		
2-Butanone	78-93-3	LCS	124		100	124	50 - 152		
2-Hexanone	591-78-6	LCS	137		100	137	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	123		100	123	71 - 146		
Acetone	67-64-1	LCS	147		100	147	40 - 151		
Benzene	71-43-2	LCS	19.9		20	99.7	80 - 124		
Bromochloromethane	74-97-5	LCS	19.6		20	98.2	73 - 117		
Bromodichloromethane	75-27-4	LCS	21		20	105	79 - 126		
Bromoform	75-25-2	LCS	18.7		20	93.5	70 - 123		
Bromomethane	74-83-9	LCS	15		20	75	45 - 148		
Carbon Disulfide	75-15-0	LCS	20.4		20	102	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.9		20	99.4	62 - 132		
Chlorobenzene	108-90-7	LCS	18.7		20	93.6	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.9		20	99.4	77 - 122		
Chloroethane	75-00-3	LCS	11.7		20	58.7	51 - 142		
Chloroform	67-66-3	LCS	20.7		20	103	78 - 122		
Chloromethane	74-87-3	LCS	17.4		20	87.2	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21.1		20	105	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.1		20	100	81 - 121		
Cyclohexane	110-82-7	LCS	20.2		20	101	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	16.7		20	83.5	17 - 166		
Ethylbenzene	100-41-4	LCS	18.6		20	93.1	80 - 124		
Freon 113	76-13-1	LCS	20.9		20	104	50 - 130		
Isopropylbenzene	98-82-8	LCS	22.9		20	114	73 - 129		
Methyl acetate	79-20-9	LCS	25.3		20	127	70 - 130		
Methyl cyclohexane	108-87-2	LCS	20.3		20	102	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	22.3		20	112	69 - 115		
Methylene Chloride	75-09-2	LCS	20		20	99.9	76 - 121		
mp-Xylene	108383/106423	LCS	38.3		40	95.8	79 - 125		
o-Xylene	95-47-6	LCS	18.5		20	92.4	79 - 124		
Styrene	100-42-5	LCS	21.3		20	106	79 - 123		
Tetrachloroethene	127-18-4	LCS	17.9		20	89.7	72 - 124		
Toluene	108-88-3	LCS	19.2		20	96	80 - 125		
Total Xylenes	1330-20-7	LCS	56.8		60	94.7	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.1		20	106	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	18.1		20	90.6	78 - 126		
Trichloroethene	79-01-6	LCS	19.3		20	96.6	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	24.9		20	124*	38 - 123		
Vinyl Chloride	75-01-4	LCS	19.8		20	99.2	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	32.1	30	107	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	28.1	30	93.7	79 - 114	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Dibromofluoromethane	1868-53-7	LCS	29.6	30	98.7	78 - 116	
Toluene-d8	2037-26-5	LCS	28.5	30	94.9	76 - 127	

QC Batch

QC Batch	1346090	Prep Method	SW846 5035A
Date	11/27/2024 16:42	Analysis Method	SW846 8260D
Tech.	BST		

Associated Samples

3388338003 3388338004 3388338007

Method Blank 3911440 (MB) Created on 11/27/2024 21:27 For QC Batch 1346090

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	50.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	50.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	50.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	100	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	100	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	42.5J	ug/kg	100	J
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	50.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	350	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	50.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	100	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	50.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	11.8J	ug/kg	50.0	J
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	50.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	50.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	500	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	250	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	250	ND
Acetone	67-64-1	BLK	ND	ug/kg	500	ND
Benzene	71-43-2	BLK	ND	ug/kg	50.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	50.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	50.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	50.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	50.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	50.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	50.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	50.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloroethane	75-00-3	BLK	ND	ug/kg	50.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	50.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	50.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	50.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	50.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	50.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	50.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	50.0	ND
Freon 113	76-13-1	BLK	ND	ug/kg	50.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	50.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	100	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	50.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	50.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	50.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/kg	100	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	50.0	ND
Styrene	100-42-5	BLK	ND	ug/kg	50.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	50.0	ND
Toluene	108-88-3	BLK	ND	ug/kg	50.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	150	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	50.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	50.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	50.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	50.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	1450	1500	96.4	71 - 146	
4-Bromofluorobenzene	460-00-4	BLK	1570	1500	105	46 - 138	
Dibromofluoromethane	1868-53-7	BLK	1480	1500	98.7	42 - 143	
Toluene-d8	2037-26-5	BLK	1420	1500	95	54 - 141	

Lab Control Standard 3911441 (LCS) Created on 11/27/2024 21:27 For QC Batch 1346090

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	889		1000	88.9	69 - 136		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	954		1000	95.4	69 - 125		
1,1,2-Trichloroethane	79-00-5	LCS	1020		1000	102	70 - 128		
1,1-Dichloroethane	75-34-3	LCS	1030		1000	103	68 - 137		
1,1-Dichloroethene	75-35-4	LCS	1070		1000	107	62 - 135		
1,2,3-Trichlorobenzene	87-61-6	LCS	1240		1000	124	41 - 143		
1,2,3-Trichloropropane	96-18-4	LCS	982		1000	98.2	63 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4-Trichlorobenzene	120-82-1	LCS	1160		1000	116	61 - 134		
1,2,4-Trimethylbenzene	95-63-6	LCS	1090		1000	109	75 - 134		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	1030		1000	103	37 - 131		
1,2-Dibromoethane	106-93-4	LCS	1040		1000	104	69 - 130		
1,2-Dichlorobenzene	95-50-1	LCS	1070		1000	107	73 - 127		
1,2-Dichloroethane	107-06-2	LCS	957		1000	95.7	62 - 139		
1,2-Dichloroethene, Total	540-59-0	LCS	2100		2000	105	68 - 137		
1,2-Dichloropropane	78-87-5	LCS	1010		1000	101	77 - 133		
1,3,5-Trimethylbenzene	108-67-8	LCS	1120		1000	112	74 - 137		
1,3-Dichlorobenzene	541-73-1	LCS	1080		1000	108	73 - 130		
1,4-Dichlorobenzene	106-46-7	LCS	1070		1000	107	74 - 127		
2-Butanone	78-93-3	LCS	5210		5000	104	51 - 151		
2-Hexanone	591-78-6	LCS	4970		5000	99.3	66 - 133		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	5360		5000	107	70 - 130		
Acetone	67-64-1	LCS	5880		5000	118	42 - 154		
Benzene	71-43-2	LCS	1050		1000	105	77 - 134		
Bromochloromethane	74-97-5	LCS	1140		1000	114	70 - 124		
Bromodichloromethane	75-27-4	LCS	997		1000	99.7	73 - 133		
Bromoform	75-25-2	LCS	1050		1000	105	62 - 118		
Bromomethane	74-83-9	LCS	1020		1000	102	41 - 143		
Carbon Disulfide	75-15-0	LCS	953		1000	95.3	48 - 145		
Carbon Tetrachloride	56-23-5	LCS	808		1000	80.8	64 - 139		
Chlorobenzene	108-90-7	LCS	1070		1000	107	76 - 130		
Chlorodibromomethane	124-48-1	LCS	975		1000	97.5	69 - 122		
Chloroethane	75-00-3	LCS	924		1000	92.4	14 - 152		
Chloroform	67-66-3	LCS	1060		1000	106	75 - 127		
Chloromethane	74-87-3	LCS	1020		1000	102	31 - 167		
cis-1,2-Dichloroethene	156-59-2	LCS	1060		1000	106	68 - 137		
cis-1,3-Dichloropropene	10061-01-5	LCS	856		1000	85.6	70 - 129		
Cyclohexane	110-82-7	LCS	1120		1000	112	63 - 151		
Dichlorodifluoromethane	75-71-8	LCS	926		1000	92.6	10 - 180		
Ethylbenzene	100-41-4	LCS	1120		1000	112	76 - 136		
Freon 113	76-13-1	LCS	925		1000	92.5	42 - 109		
Isopropylbenzene	98-82-8	LCS	1220		1000	122	72 - 137		
Methyl acetate	79-20-9	LCS	1200		1000	120	70 - 130		
Methyl cyclohexane	108-87-2	LCS	1280		1000	128	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	932		1000	93.2	65 - 120		
Methylene Chloride	75-09-2	LCS	1040		1000	104	73 - 129		
mp-Xylene	108383/106423	LCS	2240		2000	112	75 - 137		
o-Xylene	95-47-6	LCS	1140		1000	114	74 - 135		
Styrene	100-42-5	LCS	1180		1000	118	72 - 134		
Tetrachloroethene	127-18-4	LCS	1100		1000	110	73 - 134		
Toluene	108-88-3	LCS	1000		1000	100	73 - 134		
Total Xylenes	1330-20-7	LCS	3380		3000	113	75 - 136		
trans-1,2-Dichloroethene	156-60-5	LCS	1040		1000	104	69 - 130		
trans-1,3-Dichloropropene	10061-02-6	LCS	920		1000	92	67 - 129		
Trichloroethene	79-01-6	LCS	990		1000	99	77 - 134		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Trichlorofluoromethane	75-69-4	LCS	1040		1000	104	27 - 121		
Vinyl Chloride	75-01-4	LCS	1270		1000	127	5 - 200		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	1350	1500	90.3	71 - 146	
4-Bromofluorobenzene	460-00-4	LCS	1560	1500	104	46 - 138	
Dibromofluoromethane	1868-53-7	LCS	1520	1500	102	42 - 143	
Toluene-d8	2037-26-5	LCS	1430	1500	95	54 - 141	

Matrix Spike 3911449 (MS) 3388338003 For QC Batch 1346090

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911450 (MSD) 3388338003 For QC Batch 1346090

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	872	0	912	95.5	69 - 136		
1,1,1-Trichloroethane	71-55-6	MSD	886	0	912	97.1	69 - 136	RPD 1.61 (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	828	0	912	90.8	69 - 125		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	846	0	912	92.7	69 - 125	RPD 2.08 (Max-40)	
1,1,2-Trichloroethane	79-00-5	MS	947	0	912	104	70 - 128		
1,1,2-Trichloroethane	79-00-5	MSD	961	0	912	105	70 - 128	RPD 1.47 (Max-40)	
1,1-Dichloroethane	75-34-3	MS	1010	0	912	111	68 - 137		
1,1-Dichloroethane	75-34-3	MSD	1020	0	912	111	68 - 137	RPD 0.75 (Max-40)	
1,1-Dichloroethene	75-35-4	MS	1030	0	912	112	62 - 135		
1,1-Dichloroethene	75-35-4	MSD	1010	0	912	111	62 - 135	RPD 1.56 (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	MS	1020	0	912	112	41 - 143		
1,2,3-Trichlorobenzene	87-61-6	MSD	1120	0	912	123	41 - 143	RPD 9.04 (Max-40)	
1,2,3-Trichloropropane	96-18-4	MS	827	0	912	90.7	63 - 133		
1,2,3-Trichloropropane	96-18-4	MSD	844	0	912	92.5	63 - 133	RPD 2.01 (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	MS	961	0	912	105	61 - 134		
1,2,4-Trichlorobenzene	120-82-1	MSD	1030	0	912	113	61 - 134	RPD 7.35 (Max-40)	
1,2,4-Trimethylbenzene	95-63-6	MS	1020	0	912	112	75 - 134		
1,2,4-Trimethylbenzene	95-63-6	MSD	1060	0	912	116	75 - 134	RPD 3.88 (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	815	0	912	89.3	37 - 131		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	825	0	912	90.5	37 - 131	RPD 1.30 (Max-40)	
1,2-Dibromoethane	106-93-4	MS	946	0	912	104	69 - 130		
1,2-Dibromoethane	106-93-4	MSD	953	0	912	104	69 - 130	RPD 0.76 (Max-40)	
1,2-Dichlorobenzene	95-50-1	MS	935	0	912	102	73 - 127		
1,2-Dichlorobenzene	95-50-1	MSD	989	0	912	108	73 - 127	RPD 5.63 (Max-40)	
1,2-Dichloroethane	107-06-2	MS	892	0	912	97.7	62 - 139		
1,2-Dichloroethane	107-06-2	MSD	900	0	912	98.7	62 - 139	RPD 0.96 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dichloroethene, Total	540-59-0	MS	2040	0	1820	112	68 - 137		
1,2-Dichloroethene, Total	540-59-0	MSD	2040	0	1820	112	68 - 137	RPD 0.02 (Max-)	
1,2-Dichloropropane	78-87-5	MS	945	0	912	104	77 - 133		
1,2-Dichloropropane	78-87-5	MSD	973	0	912	107	77 - 133	RPD 2.93 (Max-40)	
1,3,5-Trimethylbenzene	108-67-8	MS	1050	0	912	115	74 - 137		
1,3,5-Trimethylbenzene	108-67-8	MSD	1090	0	912	120	74 - 137	RPD 4.07 (Max-40)	
1,3-Dichlorobenzene	541-73-1	MS	941	0	912	103	73 - 130		
1,3-Dichlorobenzene	541-73-1	MSD	976	0	912	107	73 - 130	RPD 3.58 (Max-40)	
1,4-Dichlorobenzene	106-46-7	MS	941	0	912	103	74 - 127		
1,4-Dichlorobenzene	106-46-7	MSD	982	0	912	108	74 - 127	RPD 4.30 (Max-40)	
2-Butanone	78-93-3	MS	5280	0	4560	116	51 - 151		
2-Butanone	78-93-3	MSD	5240	0	4560	115	51 - 151	RPD 0.77 (Max-40)	
2-Hexanone	591-78-6	MS	4120	0	4560	90.3	66 - 133		
2-Hexanone	591-78-6	MSD	4240	0	4560	93	66 - 133	RPD 2.98 (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	4650	0	4560	102	70 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	4690	0	4560	103	70 - 130	RPD 0.76 (Max-40)	
Acetone	67-64-1	MS	3900	0	4560	85.6	42 - 154		
Acetone	67-64-1	MSD	3950	0	4560	86.5	42 - 154	RPD 1.12 (Max-40)	
Benzene	71-43-2	MS	1070	0	912	118	77 - 134		
Benzene	71-43-2	MSD	1060	0	912	117	77 - 134	RPD 0.98 (Max-40)	
Bromochloromethane	74-97-5	MS	1000	0	912	110	70 - 124		
Bromochloromethane	74-97-5	MSD	1020	0	912	112	70 - 124	RPD 1.89 (Max-40)	
Bromodichloromethane	75-27-4	MS	859	0	912	94.2	73 - 133		
Bromodichloromethane	75-27-4	MSD	883	0	912	96.8	73 - 133	RPD 2.75 (Max-40)	
Bromoform	75-25-2	MS	777	0	912	85.2	62 - 118		
Bromoform	75-25-2	MSD	834	0	912	91.4	62 - 118	RPD 7.04 (Max-40)	
Bromomethane	74-83-9	MS	725	42.40	912	74.8	41 - 143		
Bromomethane	74-83-9	MSD	718	42.40	912	74.1	41 - 143	RPD 0.97 (Max-40)	
Carbon Disulfide	75-15-0	MS	752	17.50	912	80.4	48 - 145		
Carbon Disulfide	75-15-0	MSD	808	17.50	912	86.7	48 - 145	RPD 7.28 (Max-40)	
Carbon Tetrachloride	56-23-5	MS	681	0	912	74.6	64 - 139		
Carbon Tetrachloride	56-23-5	MSD	695	0	912	76.2	64 - 139	RPD 2.08 (Max-40)	
Chlorobenzene	108-90-7	MS	1020	0	912	111	76 - 130		
Chlorobenzene	108-90-7	MSD	1030	0	912	113	76 - 130	RPD 1.70 (Max-40)	
Chlorodibromomethane	124-48-1	MS	782	0	912	85.7	69 - 122		
Chlorodibromomethane	124-48-1	MSD	820	0	912	89.8	69 - 122	RPD 4.69 (Max-40)	
Chloroethane	75-00-3	MS	360	0	912	39.5	14 - 152		
Chloroethane	75-00-3	MSD	341	0	912	37.3	14 - 152	RPD 5.56 (Max-40)	
Chloroform	67-66-3	MS	1010	0	912	111	75 - 127		
Chloroform	67-66-3	MSD	1020	0	912	112	75 - 127	RPD 1.15 (Max-40)	
Chloromethane	74-87-3	MS	1030	9.10	912	112	31 - 167		
Chloromethane	74-87-3	MSD	1030	9.10	912	112	31 - 167	RPD 0.17 (Max-40)	
cis-1,2-Dichloroethene	156-59-2	MS	1010	0	912	111	68 - 137		
cis-1,2-Dichloroethene	156-59-2	MSD	998	0	912	109	68 - 137	RPD 1.46 (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	MS	761	0	912	83.4	70 - 129		
cis-1,3-Dichloropropene	10061-01-5	MSD	780	0	912	85.5	70 - 129	RPD 2.44 (Max-40)	
Cyclohexane	110-82-7	MS	1150	0	912	126	63 - 151		
Cyclohexane	110-82-7	MSD	1160	0	912	127	63 - 151	RPD 0.93 (Max-40)	
Dichlorodifluoromethane	75-71-8	MS	940	0	912	103	10 - 180		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	MSD	921	0	912	101	10 - 180	RPD 1.98 (Max-40)	
Ethylbenzene	100-41-4	MS	1090	0	912	119	76 - 136		
Ethylbenzene	100-41-4	MSD	1100	0	912	121	76 - 136	RPD 1.38 (Max-40)	
Freon 113	76-13-1	MS	940	0	912	103	42 - 109		
Freon 113	76-13-1	MSD	957	0	912	105	42 - 109	RPD 1.70 (Max-40)	
Isopropylbenzene	98-82-8	MS	1150	0	912	126	72 - 137		
Isopropylbenzene	98-82-8	MSD	1200	0	912	132	72 - 137	RPD 4.59 (Max-40)	
Methyl acetate	79-20-9	MS	3070	2100	912	106	70 - 130		
Methyl acetate	79-20-9	MSD	2970	2100	912	94.8	70 - 130	RPD 3.31 (Max-40)	
Methyl cyclohexane	108-87-2	MS	1280	36.60	912	136*	70 - 130		
Methyl cyclohexane	108-87-2	MSD	1310	36.60	912	139*	70 - 130	RPD 2.32 (Max-40)	
Methyl t-Butyl Ether	1634-04-4	MS	853	0	912	93.5	65 - 120		
Methyl t-Butyl Ether	1634-04-4	MSD	848	0	912	92.9	65 - 120	RPD 0.63 (Max-40)	
Methylene Chloride	75-09-2	MS	984	10.20	912	107	73 - 129		
Methylene Chloride	75-09-2	MSD	1010	10.20	912	109	73 - 129	RPD 2.43 (Max-40)	
mp-Xylene	108383/106423	MS	2290	17.60	1820	125	75 - 137		
mp-Xylene	108383/106423	MSD	2280	17.60	1820	124	75 - 137	RPD 0.47 (Max-40)	
o-Xylene	95-47-6	MS	1130	0	912	124	74 - 135		
o-Xylene	95-47-6	MSD	1140	0	912	125	74 - 135	RPD 0.56 (Max-40)	
Styrene	100-42-5	MS	1110	0	912	122	72 - 134		
Styrene	100-42-5	MSD	1140	0	912	125	72 - 134	RPD 2.47 (Max-40)	
Tetrachloroethene	127-18-4	MS	1030	0	912	113	73 - 134		
Tetrachloroethene	127-18-4	MSD	1070	0	912	117	73 - 134	RPD 3.97 (Max-40)	
Toluene	108-88-3	MS	1020	12.50	912	111	73 - 134		
Toluene	108-88-3	MSD	1030	12.50	912	112	73 - 134	RPD 0.78 (Max-40)	
Total Xylenes	1330-20-7	MS	3420	0	2740	125	75 - 136		
Total Xylenes	1330-20-7	MSD	3420	0	2740	125	75 - 136	RPD 0.13 (Max-40)	
trans-1,2-Dichloroethene	156-60-5	MS	1020	0	912	112	69 - 130		
trans-1,2-Dichloroethene	156-60-5	MSD	1040	0	912	114	69 - 130	RPD 1.46 (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	MS	808	0	912	88.6	67 - 129		
trans-1,3-Dichloropropene	10061-02-6	MSD	844	0	912	92.5	67 - 129	RPD 4.39 (Max-40)	
Trichloroethene	79-01-6	MS	1000	0	912	110	77 - 134		
Trichloroethene	79-01-6	MSD	994	0	912	109	77 - 134	RPD 0.77 (Max-40)	
Trichlorofluoromethane	75-69-4	MS	350	0	912	38.4	27 - 121		
Trichlorofluoromethane	75-69-4	MSD	325	0	912	35.6	27 - 121	RPD 7.48 (Max-40)	
Vinyl Chloride	75-01-4	MS	1220	0	912	134	5 - 200		
Vinyl Chloride	75-01-4	MSD	1220	0	912	134	5 - 200	RPD 0.02 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	1320	1370	96.3	71 - 146	
1,2-Dichloroethane-d4	17060-07-0	MSD	1310	1370	95.4	71 - 146	
4-Bromofluorobenzene	460-00-4	MS	1420	1370	104	46 - 138	
4-Bromofluorobenzene	460-00-4	MSD	1390	1370	101	46 - 138	
Dibromofluoromethane	1868-53-7	MS	1320	1370	96.3	42 - 143	
Dibromofluoromethane	1868-53-7	MSD	1330	1370	97.3	42 - 143	
Toluene-d8	2037-26-5	MS	1300	1370	94.9	54 - 141	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
Toluene-d8	2037-26-5	MSD	1290	1370	94.4	54 - 141	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1335483	Prep Method	N/A
Date	N/A	Analysis Method	S2540G-15
Tech.			

Associated Samples

3388338001	3388338002	3388338003	3388338004
3388338005	3388338006	3388338007	

Duplicate 3907525 (DUP) 3388326001 (non-Project Sample) For QC Batch 1335483

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	79.5180	79.4582	RPD	0.08 (Max-10)	
Total Solids	TSP	DUP	20.4819	20.5417	RPD	0.29 (Max-5)	

Duplicate 3907527 (DUP) 3388201001 (non-Project Sample) For QC Batch 1335483

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	94.7001	94.9606	RPD	0.27 (Max-10)	
Total Solids	TSP	DUP	5.2998	5.0393	RPD	5.04* (Max-5)	

Duplicate 3907528 (DUP) 3388345002 (non-Project Sample) For QC Batch 1335483

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	80.3308	78.9625	RPD	1.72 (Max-10)	
Total Solids	TSP	DUP	19.6691	21.0374	RPD	6.72* (Max-5)	

Duplicate 3907529 (DUP) 3388383002 (non-Project Sample) For QC Batch 1335483

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)				Qualifiers
Moisture	MOISTURE	DUP	73.9984	74.1862	RPD	0.25	(Max-10)	
Total Solids	TSP	DUP	26.0015	25.8137	RPD	0.72	(Max-5)	

Duplicate 3907530 (DUP) 3388432005 (non-Project Sample) For QC Batch 1335483

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)				Qualifiers
Moisture	MOISTURE	DUP	8.8789	9.1991	RPD	3.54	(Max-10)	
Total Solids	TSP	DUP	91.1210	90.8008	RPD	0.35	(Max-5)	

Duplicate 3907526 (DUP) 3388338004 For QC Batch 1335483

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)				Qualifiers
Moisture	MOISTURE	DUP	7.1881	7.8928	RPD	9.35	(Max-10)	
Total Solids	TSP	DUP	92.8118	92.1071	RPD	0.76	(Max-5)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3388338001	SB-225-12	SW846 3051A	1336097	11/20/2024 14:50	AXW	SW846 6010C	1339020
		SW846 7471B	1348991	12/03/2024 09:03	AJN	SW846 7471B	1350094
		SW846 3546	1335399	11/20/2024 00:25	J1H	SW846 8270E	1336730
		SW846 3546	1335399	11/20/2024 00:25	J1H	SW846 8270E	1338188
		SW846 5035A	1342493	11/18/2024 10:25	JTH	SW846 8260D	1342494
		N/A	N/A	N/A		S2540G-15	1335483
3388338002	SB-225-12D	SW846 3051A	1336101	11/20/2024 16:05	AXW	SW846 6010C	1339019
		SW846 3051A	1336101	11/20/2024 16:05	AXW	SW846 6010C	1351212
		SW846 7471B	1348991	12/03/2024 09:03	AJN	SW846 7471B	1350094
		SW846 3546	1335399	11/20/2024 00:25	J1H	SW846 8270E	1336730
		SW846 3546	1335399	11/20/2024 00:25	J1H	SW846 8270E	1338188
		SW846 5035A	1342493	11/18/2024 10:35	JTH	SW846 8260D	1342494
		N/A	N/A	N/A		S2540G-15	1335483
3388338003	SB-223-12	SW846 3051A	1336097	11/20/2024 14:50	AXW	SW846 6010C	1339020
		SW846 7471B	1348991	12/03/2024 09:03	AJN	SW846 7471B	1350094
		SW846 3546	1335399	11/20/2024 00:25	J1H	SW846 8270E	1336730
		SW846 5035A	1346090	11/18/2024 11:15	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1335483
3388338004	SB-222-6	SW846 3051A	1336097	11/20/2024 14:50	AXW	SW846 6010C	1339020
		SW846 7471B	1348991	12/03/2024 09:03	AJN	SW846 7471B	1350094
		SW846 3546	1335399	11/20/2024 00:25	J1H	SW846 8270E	1336730
		SW846 5035A	1346090	11/18/2024 11:50	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1335483
3388338005	SB-224-4	SW846 3051A	1336097	11/20/2024 14:50	AXW	SW846 6010C	1339020
		SW846 7471B	1350799	12/05/2024 06:53	AJN	SW846 7471B	1351295
		SW846 3546	1336201	11/20/2024 15:00	GED	SW846 8270E	1338186
		SW846 5035A	1342493	11/18/2024 14:45	JTH	SW846 8260D	1342494
		N/A	N/A	N/A		S2540G-15	1335483
3388338006	SB-224-6	SW846 3051A	1336097	11/20/2024 14:50	AXW	SW846 6010C	1339020
		SW846 7471B	1348991	12/03/2024 09:03	AJN	SW846 7471B	1350094
		SW846 3546	1336201	11/20/2024 15:00	GED	SW846 8270E	1338186
		SW846 5035A	1342493	11/18/2024 14:50	JTH	SW846 8260D	1342494
		N/A	N/A	N/A		S2540G-15	1335483
3388338007	SB-226-16	SW846 3051A	1336097	11/20/2024 14:50	AXW	SW846 6010C	1339020
		SW846 7471B	1348991	12/03/2024 09:03	AJN	SW846 7471B	1350094
		SW846 3546	1336201	11/20/2024 15:00	GED	SW846 8270E	1338186
		SW846 5035A	1346090	11/18/2024 16:25	BST	SW846 8260D	1346189
		N/A	N/A	N/A		S2540G-15	1335483
3388338008	TB-5	N/A	N/A	N/A		SW846 8260D	1344288

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

3388338
Logged By: GRD
PM: EXP

Pg 1 of 1 of

(Completed by Receiving Lab)

Client Name: Michael Baker Intl.
Address: 100 Airside Drive, Moon Twp., PA
Contact: C. Kupfer
Phone#: 412-269-6300
Project Name/#: Erie Coke Works
Bill To:
Purchase Order #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	Container Type	Container Size	Preservative	VOCs 8260D	SVOCs 8270E	Total metals + Hg 6010D / 7471B
							TCK	G				
							3 40 ml	8 oz	MeOH + DI			
									—			
1	SB-225-12	11/18/24	1025		G	S				X	X	X
2	SB-225-12D	"	1035		"	"				X	X	X
3	SB-223-12	"	1115		"	"				X	X	X
4	SB-222-6	"	1150		"	"				X	X	X
5	SB-224-4	"	1445		"	"				X	X	X
6	SB-224-6	"	1450		"	"				X	X	X
7	SB-226-16	↓	1625		↓	↓				X	X	X
8	TB-5	—	—		—	—				2	GRD 11/19/24	
9												
10												

Enter Number of Containers Per Sample or Field Results Below.

Circle Sample Collector: ALS Tech / Client
Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11/18/24	1800	1	Dave Gaviglia / MTBI	2	FedEx
11/19/24	0924	3	FedEx	4	
		5		6	
		7		8	
		9		10	

Temp Taken By: Therm ID: WO Temp (°C)
Receipt Info completed by: WV Containers 0-6°C Y N NA
Cooler Custody Seals? NO YES
Sample Temp By: GRD | WO Temp (°C): 5 | Therm ID: 352 | If YES,
Received on Ice
Coolers & Correct C
Sample L
Adequate
VOA only
NJ ≤ 4 d
Courier/Tra

Receipt Info Completed By: GRD
Cooler Custody Seal Intact Y N NA
Sample Custody Seal Intact Y N (NA)
Received on Ice (Y) N NA
Cooler & Samples Intact Y N
Correct Containers Provided Y N
Sample Label/COC Agree Y N
Adequate Sample Volumes Y N
CR6 Samples Filtered Y N NA
OP Samples Filtered Y N (NA)
VOA Trip Blank (Y) N NA
NJ≤ 4 Days? Y N
Rad Screen (uCi)
Courier/Tracking #: 2819 6021 9974

Client contact:
Sample(s
Reportabl
SDWA St
PWSID #
PWS Con

SDWA Compliance Y (N)
PWSID
WV Containers 0-6°C Y N (NA)

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks
no sampler
GRD 11/19/24
Samples 1-7 contain:
2x G/DI vials
1x G/MeOH vial
1x G/UNP 2oz
1x G/UNP 8oz
sample 8: 2x G/HCl vials

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type:

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3389084
Report ID 374806 on 12/16/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 22, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3389084001	EB-1	Ground Water	11/19/2024 07:40	11/22/2024 09:07	CBC	Collected By Client
3389084002	FB-1	Ground Water	11/20/2024 07:00	11/22/2024 09:07	CBC	Collected By Client
3389084003	EB-2	Ground Water	11/20/2024 07:10	11/22/2024 09:07	CBC	Collected By Client
3389084004	MW-40-9	Solid	11/20/2024 10:15	11/22/2024 09:07	CBC	Collected By Client
3389084005	MW-41-8	Solid	11/20/2024 13:30	11/22/2024 09:07	CBC	Collected By Client
3389084006	TB-6	Ground Water	11/20/2024 13:30	11/22/2024 09:07	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
E	Result reported exceeds instrument calibration
1	The CCV recovery yielded -25.61%D (limits +/-20%D) for method SW846 8260D for the analyte Bromomethane.
2	The surrogate Nitrobenzene-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 38 to 112. This result was reported at a dilution of 100.
3	The surrogate 2-Fluorobiphenyl for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 40 to 110. This result was reported at a dilution of 100.
4	The surrogate 2,4,6-Tribromophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 19 to 132. This result was reported at a dilution of 100.
5	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 45 to 126. This result was reported at a dilution of 100.
6	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Di-n-Octylphthalate. The % Recovery was reported as 79 and the control limits were 80 to 120.
7	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Butylbenzylphthalate. The % Recovery was reported as 78 and the control limits were 80 to 120.
8	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Hexachlorocyclopentadiene. The % Recovery was reported as 77 and the control limits were 80 to 120.
9	The surrogate 2-Fluorophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 26 to 116. This result was reported at a dilution of 200.
10	The surrogate Phenol-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 35 to 111. This result was reported at a dilution of 200.
11	The surrogate Nitrobenzene-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 38 to 112. This result was reported at a dilution of 200.
12	The surrogate 2-Fluorobiphenyl for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 40 to 110. This result was reported at a dilution of 200.
13	The surrogate 2,4,6-Tribromophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 19 to 132. This result was reported at a dilution of 200.
14	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 45 to 126. This result was reported at a dilution of 200.

Detected Results Summary

Client Sample ID	EB-1	Collected	11/19/2024 07:40
Lab Sample ID	3389084001	Lab Receipt	11/22/2024 09:07

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Calcium, Total	0.13	mg/L	0.11	0.036	SW846 6010C	#
Sodium, Total	0.20J	mg/L	0.56	0.18	SW846 6010C	#
VOLATILE ORGANICS						
Chloroform	19.6	ug/L	1.0	0.21	SW846 8260D	#

Detected Results Summary

Client Sample ID	FB-1	Collected	11/20/2024 07:00
Lab Sample ID	3389084002	Lab Receipt	11/22/2024 09:07

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS						
Chloroform	20.3	ug/L	1.0	0.21	SW846 8260D	#

Detected Results Summary

Client Sample ID	EB-2	Collected	11/20/2024 07:10
Lab Sample ID	3389084003	Lab Receipt	11/22/2024 09:07

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Calcium, Total	0.075J	mg/L	0.11	0.036	SW846 6010C	#
VOLATILE ORGANICS						
Chloroform	18.1	ug/L	1.0	0.21	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-40-9	Collected	11/20/2024 10:15
Lab Sample ID	3389084004	Lab Receipt	11/22/2024 09:07

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	8030	mg/kg	63.6	21.2	SW846 6010C	#
Arsenic, Total	13.2	mg/kg	12.7	4.2	SW846 6010C	#
Barium, Total	186	mg/kg	6.4	2.1	SW846 6010C	#
Cadmium, Total	2.3J	mg/kg	3.2	1.1	SW846 6010C	#
Calcium, Total	26000	mg/kg	63.6	21.2	SW846 6010C	#
Chromium, Total	29.0	mg/kg	6.4	2.1	SW846 6010C	#
Cobalt, Total	10.0	mg/kg	6.4	2.1	SW846 6010C	#
Copper, Total	71.0	mg/kg	12.7	4.2	SW846 6010C	#
Iron, Total	51400	mg/kg	63.6	21.2	SW846 6010C	#
Lead, Total	622	mg/kg	12.7	4.2	SW846 6010C	#
Magnesium, Total	8000	mg/kg	63.6	21.2	SW846 6010C	#
Manganese, Total	3830	mg/kg	6.4	2.1	SW846 6010C	#
Mercury, Total	0.12	mg/kg	0.062	0.020	SW846 7471B	#
Nickel, Total	17.0	mg/kg	12.7	4.2	SW846 6010C	#
Potassium, Total	742	mg/kg	318	106	SW846 6010C	#
Sodium, Total	256J	mg/kg	318	106	SW846 6010C	#
Vanadium, Total	40.8	mg/kg	6.4	2.1	SW846 6010C	#
Zinc, Total	285	mg/kg	12.7	4.2	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	1020	ug/kg	914	155	SW846 8270E	#
2,6-Dinitrotoluene	2690	ug/kg	457	155	SW846 8270E	#
2-Methylnaphthalene	44200	ug/kg	11400	1940	SW846 8270E	#
Acenaphthene	8060	ug/kg	229	77.7	SW846 8270E	#
Acenaphthylene	85800	ug/kg	5710	1940	SW846 8270E	#
Anthracene	103000	ug/kg	5710	1940	SW846 8270E	#
Benzo(a)anthracene	88500	ug/kg	5710	1940	SW846 8270E	#
Benzo(a)pyrene	74100	ug/kg	5710	1940	SW846 8270E	#
Benzo(b)fluoranthene	60600	ug/kg	5710	1940	SW846 8270E	#
Benzo(g,h,i)perylene	35200	ug/kg	5710	1940	SW846 8270E	#
Benzo(k)fluoranthene	60000	ug/kg	5710	1940	SW846 8270E	#
Biphenyl	11600	ug/kg	457	77.7	SW846 8270E	#
Carbazole	35900	ug/kg	11400	1940	SW846 8270E	#
Chrysene	82000	ug/kg	5710	1940	SW846 8270E	#
Dibenzo(a,h)anthracene	10900	ug/kg	229	77.7	SW846 8270E	#
Dibenzofuran	62000	ug/kg	11400	1940	SW846 8270E	#
Fluoranthene	280000	ug/kg	5710	1940	SW846 8270E	#
Fluorene	114000	ug/kg	5710	1940	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	40700	ug/kg	5710	1940	SW846 8270E	#
mp-Cresol	2950	ug/kg	914	155	SW846 8270E	#
Naphthalene	199000	ug/kg	5710	1940	SW846 8270E	#
o-Cresol	1360	ug/kg	914	155	SW846 8270E	#
Phenanthrene	340000	ug/kg	5710	1940	SW846 8270E	#
Phenol	4420	ug/kg	914	155	SW846 8270E	#
Pyrene	182000	ug/kg	5710	1940	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	5600	ug/kg	2100	524	SW846 8260D	#

Detected Results Summary

Sample - MW-40-9 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
1,3,5-Trimethylbenzene	3440	ug/kg	2100	419	SW846 8260D	#
Benzene	13100	ug/kg	2100	482	SW846 8260D	#
Ethylbenzene	1100J	ug/kg	2100	713	SW846 8260D	#
mp-Xylene	4900	ug/kg	4190	1090	SW846 8260D	#
o-Xylene	1970J	ug/kg	2100	692	SW846 8260D	#
Styrene	1550J	ug/kg	2100	503	SW846 8260D	#
Toluene	4930	ug/kg	2100	482	SW846 8260D	#
Total Xylenes	6870	ug/kg	6290	1380	SW846 8260D	#
WET CHEMISTRY						
Moisture	24.6	%	0.1	0.01	S2540G-15	#
Total Solids	75.4	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	MW-41-8	Collected	11/20/2024 13:30
Lab Sample ID	3389084005	Lab Receipt	11/22/2024 09:07

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	9130	mg/kg	60.8	20.2	SW846 6010C	#
Arsenic, Total	16.5	mg/kg	12.2	4.1	SW846 6010C	#
Barium, Total	115	mg/kg	6.1	2.0	SW846 6010C	#
Beryllium, Total	2.1J	mg/kg	6.1	2.0	SW846 6010C	#
Cadmium, Total	2.5J	mg/kg	3.0	1.0	SW846 6010C	#
Calcium, Total	56800	mg/kg	60.8	20.2	SW846 6010C	#
Chromium, Total	55.0	mg/kg	6.1	2.0	SW846 6010C	#
Cobalt, Total	13.5	mg/kg	6.1	2.0	SW846 6010C	#
Copper, Total	62.6	mg/kg	12.2	4.1	SW846 6010C	#
Iron, Total	66300	mg/kg	60.8	20.2	SW846 6010C	#
Lead, Total	176	mg/kg	12.2	4.1	SW846 6010C	#
Magnesium, Total	24500	mg/kg	60.8	20.2	SW846 6010C	#
Manganese, Total	4600	mg/kg	6.1	2.0	SW846 6010C	#
Mercury, Total	1.0	mg/kg	0.067	0.021	SW846 7471B	#
Nickel, Total	26.7	mg/kg	12.2	4.1	SW846 6010C	#
Potassium, Total	985	mg/kg	304	101	SW846 6010C	#
Sodium, Total	592	mg/kg	304	101	SW846 6010C	#
Vanadium, Total	57.7	mg/kg	6.1	2.0	SW846 6010C	#
Zinc, Total	247	mg/kg	12.2	4.1	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	7440	ug/kg	1010	171	SW846 8270E	#
2-Methylnaphthalene	612000	ug/kg	25200	4280	SW846 8270E	#
Acenaphthene	47400	ug/kg	12600	4280	SW846 8270E	#
Acenaphthylene	775000	ug/kg	12600	4280	SW846 8270E	#
Acetophenone	6140	ug/kg	503	85.5	SW846 8270E	#
Anthracene	625000	ug/kg	12600	4280	SW846 8270E	#
Benzo(a)anthracene	443000	ug/kg	12600	4280	SW846 8270E	#
Benzo(a)pyrene	354000	ug/kg	12600	4280	SW846 8270E	#
Benzo(b)fluoranthene	297000	ug/kg	12600	4280	SW846 8270E	#
Benzo(g,h,i)perylene	156000	ug/kg	12600	4280	SW846 8270E	#
Benzo(k)fluoranthene	306000	ug/kg	12600	4280	SW846 8270E	#
Biphenyl	130000	ug/kg	25200	4280	SW846 8270E	#
Carbazole	269000	ug/kg	25200	4280	SW846 8270E	#
Chrysene	449000	ug/kg	12600	4280	SW846 8270E	#
Dibenzo(a,h)anthracene	51000	ug/kg	12600	4280	SW846 8270E	#
Dibenzofuran	487000	ug/kg	25200	4280	SW846 8270E	#
Fluoranthene	1370000	ug/kg	12600	4280	SW846 8270E	#
Fluorene	777000	ug/kg	12600	4280	SW846 8270E	#
Hexachlorobutadiene	265J	ug/kg	503	85.5	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	188000	ug/kg	12600	4280	SW846 8270E	#
mp-Cresol	8550	ug/kg	1010	171	SW846 8270E	#
Naphthalene	3600000	ug/kg	12600	4280	SW846 8270E	#
o-Cresol	4490	ug/kg	1010	171	SW846 8270E	#
Phenanthrene	2020000	ug/kg	12600	4280	SW846 8270E	#
Phenol	7340	ug/kg	1010	171	SW846 8270E	#
Pyrene	890000	ug/kg	12600	4280	SW846 8270E	#

Detected Results Summary

Sample - MW-41-8 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	46100	ug/kg	16100	4010	SW846 8260D	#
1,3,5-Trimethylbenzene	33500	ug/kg	16100	3210	SW846 8260D	#
Benzene	186000	ug/kg	16100	3690	SW846 8260D	#
Ethylbenzene	11200J	ug/kg	16100	5460	SW846 8260D	#
mp-Xylene	129000	ug/kg	32100	8350	SW846 8260D	#
o-Xylene	50400	ug/kg	16100	5300	SW846 8260D	#
Styrene	7780J	ug/kg	16100	3850	SW846 8260D	#
Toluene	65400	ug/kg	16100	3690	SW846 8260D	#
Total Xylenes	179000	ug/kg	48200	10600	SW846 8260D	#
WET CHEMISTRY						
Moisture	26.4	%	0.1	0.01	S2540G-15	#
Total Solids	73.6	%	0.1	0.01	S2540G-15	#

Results

Client Sample ID	EB-1	Collected	11/19/2024 07:40
Lab Sample ID	3389084001	Lab Receipt	11/22/2024 09:07

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/06/2024 10:04	MSY	E1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Barium, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Calcium, Total	0.13		mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Iron, Total	ND	ND	mg/L	0.067	0.022	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/06/2024 10:04	MSY	E1
Magnesium, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Manganese, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/02/2024 13:41	AXW	E2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Potassium, Total	ND	ND	mg/L	0.56	0.18	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Sodium, Total	0.20J	J	mg/L	0.56	0.18	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:06	MSY	E1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:06	MSY	E1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.3	0.52	SW846 8270E	1	11/27/2024 11:55	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 11:55	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 11:55	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 11:55	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 11:55	S7M	D
2,4-Dimethylphenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 11:55	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	6.6	4.8	SW846 8270E	1	11/27/2024 11:55	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 11:55	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.6	3.3	SW846 8270E	1	11/27/2024 11:55	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.3	0.29	SW846 8270E	1	11/27/2024 11:55	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 11:55	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	17.7	9.4	SW846 8270E	1	11/27/2024 11:55	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.3	0.52	SW846 8270E	1	11/27/2024 11:55	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 11:55	S7M	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.3	1.2	SW846 8270E	1	11/27/2024 11:55	S7M	D
Acenaphthene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Acenaphthylene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Acetophenone	ND	ND	ug/L	3.3	1.0	SW846 8270E	1	11/27/2024 11:55	S7M	D
Anthracene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Atrazine	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Benzaldehyde	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.7	0.31	SW846 8270E	1	11/27/2024 11:55	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.7	0.29	SW846 8270E	1	11/27/2024 11:55	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.7	0.33	SW846 8270E	1	11/27/2024 11:55	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.7	0.40	SW846 8270E	1	11/27/2024 11:55	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.7	0.38	SW846 8270E	1	11/27/2024 11:55	S7M	D
Biphenyl	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.3	0.52	SW846 8270E	1	11/27/2024 11:55	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.3	0.34	SW846 8270E	1	11/27/2024 11:55	S7M	D
Caprolactam	ND	ND	ug/L	3.3	0.40	SW846 8270E	1	11/27/2024 11:55	S7M	D
Carbazole	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Chrysene	ND	ND	ug/L	1.7	0.29	SW846 8270E	1	11/27/2024 11:55	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.7	0.35	SW846 8270E	1	11/27/2024 11:55	S7M	D
Dibenzofuran	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Diethylphthalate	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.3	0.41	SW846 8270E	1	11/27/2024 11:55	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Fluoranthene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Fluorene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.3	0.31	SW846 8270E	1	11/27/2024 11:55	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.3	0.48	SW846 8270E	1	11/27/2024 11:55	S7M	D
Hexachloroethane	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.7	0.34	SW846 8270E	1	11/27/2024 11:55	S7M	D
Isophorone	ND	ND	ug/L	3.3	0.41	SW846 8270E	1	11/27/2024 11:55	S7M	D
mp-Cresol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 11:55	S7M	D
Naphthalene	ND	ND	ug/L	1.7	0.72	SW846 8270E	1	11/27/2024 11:55	S7M	D
Nitrobenzene	ND	ND	ug/L	3.3	0.64	SW846 8270E	1	11/27/2024 11:55	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.3	0.35	SW846 8270E	1	11/27/2024 11:55	S7M	D
o-Cresol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 11:55	S7M	D
Pentachlorophenol	ND	ND	ug/L	8.8	1.5	SW846 8270E	1	11/27/2024 11:55	S7M	D
Phenanthrene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D
Phenol	ND	ND	ug/L	8.8	0.55	SW846 8270E	1	11/27/2024 11:55	S7M	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 11:55	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	80.3%	23 – 131	11/27/2024 11:55	
2-Fluorobiphenyl	321-60-8	61.6%	24 – 116	11/27/2024 11:55	
2-Fluorophenol	367-12-4	40.5%	10 – 85	11/27/2024 11:55	
Nitrobenzene-d5	4165-60-0	60.7%	32 – 125	11/27/2024 11:55	
Phenol-d5	4165-62-2	29.5%	7 – 56	11/27/2024 11:55	
Terphenyl-d14	98904-43-9	80.2%	41 – 145	11/27/2024 11:55	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/27/2024 12:55	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/27/2024 12:55	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	11/27/2024 12:55	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	11/27/2024 12:55	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	11/27/2024 12:55	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	11/27/2024 12:55	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 12:55	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 12:55	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/27/2024 12:55	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	11/27/2024 12:55	TMP	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	11/27/2024 12:55	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 12:55	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 12:55	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	11/27/2024 12:55	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/27/2024 12:55	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 12:55	TMP	A
Chloroform	19.6		ug/L	1.0	0.21	SW846 8260D	1	11/27/2024 12:55	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 12:55	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 12:55	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 12:55	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 12:55	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 12:55	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/27/2024 12:55	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/27/2024 12:55	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/27/2024 12:55	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	11/27/2024 12:55	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/27/2024 12:55	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 12:55	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/27/2024 12:55	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	11/27/2024 12:55	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 12:55	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 12:55	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	11/27/2024 12:55	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 12:55	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	11/27/2024 12:55	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/27/2024 12:55	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 12:55	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 12:55	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 12:55	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/27/2024 12:55	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 – 133	11/27/2024 12:55	
4-Bromofluorobenzene	460-00-4	104%	79 – 114	11/27/2024 12:55	
Dibromofluoromethane	1868-53-7	104%	78 – 116	11/27/2024 12:55	
Toluene-d8	2037-26-5	107%	76 – 127	11/27/2024 12:55	

Results

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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/06/2024 10:05	MSY	E1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Barium, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Calcium, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Iron, Total	ND	ND	mg/L	0.067	0.022	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/06/2024 10:05	MSY	E1
Magnesium, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Manganese, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/02/2024 13:39	AXW	E2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Potassium, Total	ND	ND	mg/L	0.56	0.18	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Sodium, Total	ND	ND	mg/L	0.56	0.18	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:07	MSY	E1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:07	MSY	E1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.8	0.59	SW846 8270E	1	11/27/2024 12:45	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 12:45	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 12:45	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 12:45	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 12:45	S7M	D
2,4-Dimethylphenol	ND	ND	ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 12:45	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	7.5	5.4	SW846 8270E	1	11/27/2024 12:45	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 12:45	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	7.5	3.8	SW846 8270E	1	11/27/2024 12:45	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.9	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.8	0.33	SW846 8270E	1	11/27/2024 12:45	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 12:45	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	20.0	10.6	SW846 8270E	1	11/27/2024 12:45	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.8	0.59	SW846 8270E	1	11/27/2024 12:45	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 12:45	S7M	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.8	1.4	SW846 8270E	1	11/27/2024 12:45	S7M	D
Acenaphthene	ND	ND	ug/L	1.9	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Acenaphthylene	ND	ND	ug/L	1.9	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Acetophenone	ND	ND	ug/L	3.8	1.1	SW846 8270E	1	11/27/2024 12:45	S7M	D
Anthracene	ND	ND	ug/L	1.9	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Atrazine	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Benzaldehyde	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.9	0.35	SW846 8270E	1	11/27/2024 12:45	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.9	0.33	SW846 8270E	1	11/27/2024 12:45	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.9	0.38	SW846 8270E	1	11/27/2024 12:45	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.9	0.45	SW846 8270E	1	11/27/2024 12:45	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.9	0.43	SW846 8270E	1	11/27/2024 12:45	S7M	D
Biphenyl	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.8	0.59	SW846 8270E	1	11/27/2024 12:45	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.8	0.39	SW846 8270E	1	11/27/2024 12:45	S7M	D
Caprolactam	ND	ND	ug/L	3.8	0.45	SW846 8270E	1	11/27/2024 12:45	S7M	D
Carbazole	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Chrysene	ND	ND	ug/L	1.9	0.33	SW846 8270E	1	11/27/2024 12:45	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.9	0.40	SW846 8270E	1	11/27/2024 12:45	S7M	D
Dibenzofuran	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Diethylphthalate	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.8	0.46	SW846 8270E	1	11/27/2024 12:45	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Fluoranthene	ND	ND	ug/L	1.9	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Fluorene	ND	ND	ug/L	1.9	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.8	0.35	SW846 8270E	1	11/27/2024 12:45	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.8	0.54	SW846 8270E	1	11/27/2024 12:45	S7M	D
Hexachloroethane	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.9	0.39	SW846 8270E	1	11/27/2024 12:45	S7M	D
Isophorone	ND	ND	ug/L	3.8	0.46	SW846 8270E	1	11/27/2024 12:45	S7M	D
mp-Cresol	ND	ND	ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 12:45	S7M	D
Naphthalene	ND	ND	ug/L	1.9	0.81	SW846 8270E	1	11/27/2024 12:45	S7M	D
Nitrobenzene	ND	ND	ug/L	3.8	0.73	SW846 8270E	1	11/27/2024 12:45	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.8	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.8	0.40	SW846 8270E	1	11/27/2024 12:45	S7M	D
o-Cresol	ND	ND	ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 12:45	S7M	D
Pentachlorophenol	ND	ND	ug/L	10.0	1.8	SW846 8270E	1	11/27/2024 12:45	S7M	D
Phenanthrene	ND	ND	ug/L	1.9	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D
Phenol	ND	ND	ug/L	10.0	0.63	SW846 8270E	1	11/27/2024 12:45	S7M	D

Results

Client Sample ID	FB-1	Collected	11/20/2024 07:00
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	ND	ND	ug/L	1.9	0.31	SW846 8270E	1	11/27/2024 12:45	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	80.1%	23 – 131	11/27/2024 12:45	
2-Fluorobiphenyl	321-60-8	73.7%	24 – 116	11/27/2024 12:45	
2-Fluorophenol	367-12-4	46.1%	10 – 85	11/27/2024 12:45	
Nitrobenzene-d5	4165-60-0	76.3%	32 – 125	11/27/2024 12:45	
Phenol-d5	4165-62-2	31.8%	7 – 56	11/27/2024 12:45	
Terphenyl-d14	98904-43-9	82.9%	41 – 145	11/27/2024 12:45	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/27/2024 13:14	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/27/2024 13:14	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	11/27/2024 13:14	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	11/27/2024 13:14	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	11/27/2024 13:14	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	11/27/2024 13:14	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 13:14	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 13:14	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/27/2024 13:14	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	11/27/2024 13:14	TMP	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	11/27/2024 13:14	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 13:14	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 13:14	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	11/27/2024 13:14	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/27/2024 13:14	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:14	TMP	A
Chloroform	20.3		ug/L	1.0	0.21	SW846 8260D	1	11/27/2024 13:14	TMP	A

Results

Client Sample ID	FB-1	Collected	11/20/2024 07:00
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 13:14	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 13:14	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 13:14	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 13:14	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:14	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/27/2024 13:14	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/27/2024 13:14	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/27/2024 13:14	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	11/27/2024 13:14	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/27/2024 13:14	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:14	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/27/2024 13:14	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	11/27/2024 13:14	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:14	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 13:14	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	11/27/2024 13:14	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 13:14	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	11/27/2024 13:14	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/27/2024 13:14	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 13:14	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:14	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 13:14	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/27/2024 13:14	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.6%	62 – 133	11/27/2024 13:14	
4-Bromofluorobenzene	460-00-4	104%	79 – 114	11/27/2024 13:14	
Dibromofluoromethane	1868-53-7	96.2%	78 – 116	11/27/2024 13:14	
Toluene-d8	2037-26-5	98%	76 – 127	11/27/2024 13:14	

Results

Client Sample ID	EB-2	Collected	11/20/2024 07:10
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/06/2024 10:06	MSY	E1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Barium, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Calcium, Total	0.075J	J	mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Iron, Total	ND	ND	mg/L	0.067	0.022	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/06/2024 10:06	MSY	E1
Magnesium, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Manganese, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/02/2024 13:40	AXW	E2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Potassium, Total	ND	ND	mg/L	0.56	0.18	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Sodium, Total	ND	ND	mg/L	0.56	0.18	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:08	MSY	E1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:08	MSY	E1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.3	0.52	SW846 8270E	1	11/27/2024 13:10	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 13:10	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 13:10	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 13:10	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 13:10	S7M	D
2,4-Dimethylphenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 13:10	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	6.6	4.8	SW846 8270E	1	11/27/2024 13:10	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 13:10	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.6	3.3	SW846 8270E	1	11/27/2024 13:10	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.3	0.29	SW846 8270E	1	11/27/2024 13:10	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 13:10	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	17.7	9.4	SW846 8270E	1	11/27/2024 13:10	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.3	0.52	SW846 8270E	1	11/27/2024 13:10	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 13:10	S7M	D

Results

Client Sample ID	EB-2	Collected	11/20/2024 07:10
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.3	1.2	SW846 8270E	1	11/27/2024 13:10	S7M	D
Acenaphthene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Acenaphthylene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Acetophenone	ND	ND	ug/L	3.3	1.0	SW846 8270E	1	11/27/2024 13:10	S7M	D
Anthracene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Atrazine	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Benzaldehyde	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.7	0.31	SW846 8270E	1	11/27/2024 13:10	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.7	0.29	SW846 8270E	1	11/27/2024 13:10	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.7	0.33	SW846 8270E	1	11/27/2024 13:10	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.7	0.40	SW846 8270E	1	11/27/2024 13:10	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.7	0.38	SW846 8270E	1	11/27/2024 13:10	S7M	D
Biphenyl	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.3	0.52	SW846 8270E	1	11/27/2024 13:10	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.3	0.34	SW846 8270E	1	11/27/2024 13:10	S7M	D
Caprolactam	ND	ND	ug/L	3.3	0.40	SW846 8270E	1	11/27/2024 13:10	S7M	D
Carbazole	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Chrysene	ND	ND	ug/L	1.7	0.29	SW846 8270E	1	11/27/2024 13:10	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.7	0.35	SW846 8270E	1	11/27/2024 13:10	S7M	D
Dibenzofuran	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Diethylphthalate	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.3	0.41	SW846 8270E	1	11/27/2024 13:10	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Fluoranthene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Fluorene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.3	0.31	SW846 8270E	1	11/27/2024 13:10	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.3	0.48	SW846 8270E	1	11/27/2024 13:10	S7M	D
Hexachloroethane	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.7	0.34	SW846 8270E	1	11/27/2024 13:10	S7M	D
Isophorone	ND	ND	ug/L	3.3	0.41	SW846 8270E	1	11/27/2024 13:10	S7M	D
mp-Cresol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 13:10	S7M	D
Naphthalene	ND	ND	ug/L	1.7	0.72	SW846 8270E	1	11/27/2024 13:10	S7M	D
Nitrobenzene	ND	ND	ug/L	3.3	0.64	SW846 8270E	1	11/27/2024 13:10	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.3	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.3	0.35	SW846 8270E	1	11/27/2024 13:10	S7M	D
o-Cresol	ND	ND	ug/L	3.3	0.55	SW846 8270E	1	11/27/2024 13:10	S7M	D
Pentachlorophenol	ND	ND	ug/L	8.8	1.5	SW846 8270E	1	11/27/2024 13:10	S7M	D
Phenanthrene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D
Phenol	ND	ND	ug/L	8.8	0.55	SW846 8270E	1	11/27/2024 13:10	S7M	D

Results

Client Sample ID	EB-2	Collected	11/20/2024 07:10
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	ND	ND	ug/L	1.7	0.28	SW846 8270E	1	11/27/2024 13:10	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	93.3%	23 – 131	11/27/2024 13:10	
2-Fluorobiphenyl	321-60-8	70.4%	24 – 116	11/27/2024 13:10	
2-Fluorophenol	367-12-4	51%	10 – 85	11/27/2024 13:10	
Nitrobenzene-d5	4165-60-0	73.8%	32 – 125	11/27/2024 13:10	
Phenol-d5	4165-62-2	35.5%	7 – 56	11/27/2024 13:10	
Terphenyl-d14	98904-43-9	87.3%	41 – 145	11/27/2024 13:10	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/27/2024 13:34	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/27/2024 13:34	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	11/27/2024 13:34	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	11/27/2024 13:34	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	11/27/2024 13:34	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	11/27/2024 13:34	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 13:34	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 13:34	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/27/2024 13:34	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	11/27/2024 13:34	TMP	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	11/27/2024 13:34	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 13:34	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 13:34	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	11/27/2024 13:34	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/27/2024 13:34	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:34	TMP	A
Chloroform	18.1		ug/L	1.0	0.21	SW846 8260D	1	11/27/2024 13:34	TMP	A

Results

Client Sample ID	EB-2	Collected	11/20/2024 07:10
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 13:34	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 13:34	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 13:34	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 13:34	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:34	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/27/2024 13:34	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/27/2024 13:34	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/27/2024 13:34	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	11/27/2024 13:34	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/27/2024 13:34	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:34	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/27/2024 13:34	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	11/27/2024 13:34	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:34	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 13:34	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	11/27/2024 13:34	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 13:34	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	11/27/2024 13:34	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/27/2024 13:34	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 13:34	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:34	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 13:34	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/27/2024 13:34	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	11/27/2024 13:34	
4-Bromofluorobenzene	460-00-4	104%	79 – 114	11/27/2024 13:34	
Dibromofluoromethane	1868-53-7	98.7%	78 – 116	11/27/2024 13:34	
Toluene-d8	2037-26-5	103%	76 – 127	11/27/2024 13:34	

Results

Client Sample ID	MW-40-9	Collected	11/20/2024 10:15
Lab Sample ID	3389084004	Lab Receipt	11/22/2024 09:07

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	8030		mg/kg	63.6	21.2	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Antimony, Total	ND	ND	mg/kg	12.7	4.2	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Arsenic, Total	13.2		mg/kg	12.7	4.2	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Barium, Total	186		mg/kg	6.4	2.1	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Beryllium, Total	ND	ND	mg/kg	6.4	2.1	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Cadmium, Total	2.3J	J	mg/kg	3.2	1.1	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Calcium, Total	26000		mg/kg	63.6	21.2	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Chromium, Total	29.0		mg/kg	6.4	2.1	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Cobalt, Total	10.0		mg/kg	6.4	2.1	SW846 6010C	5	12/13/2024 12:30	MSY	B1
Copper, Total	71.0		mg/kg	12.7	4.2	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Iron, Total	51400		mg/kg	63.6	21.2	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Lead, Total	622		mg/kg	12.7	4.2	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Magnesium, Total	8000		mg/kg	63.6	21.2	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Manganese, Total	3830		mg/kg	6.4	2.1	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Mercury, Total	0.12		mg/kg	0.062	0.020	SW846 7471B	1	12/05/2024 12:37	AJN	B
Nickel, Total	17.0		mg/kg	12.7	4.2	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Potassium, Total	742		mg/kg	318	106	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Selenium, Total	ND	ND	mg/kg	31.8	10.6	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Silver, Total	ND	ND	mg/kg	3.2	1.1	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Sodium, Total	256J	J	mg/kg	318	106	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Thallium, Total	ND	ND	mg/kg	19.1	6.4	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Vanadium, Total	40.8		mg/kg	6.4	2.1	SW846 6010C	5	12/12/2024 12:48	MSY	B1
Zinc, Total	285		mg/kg	12.7	4.2	SW846 6010C	5	12/12/2024 12:48	MSY	B1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
1,4-Dioxane	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	914	155	SW846 8270E	4	11/25/2024 18:26	CGS	B
2,4,5-Trichlorophenol	ND	ND	ug/kg	914	155	SW846 8270E	4	11/25/2024 18:26	CGS	B
2,4,6-Trichlorophenol	ND	ND	ug/kg	914	155	SW846 8270E	4	11/25/2024 18:26	CGS	B
2,4-Dichlorophenol	ND	ND	ug/kg	914	155	SW846 8270E	4	11/25/2024 18:26	CGS	B
2,4-Dimethylphenol	1020		ug/kg	914	155	SW846 8270E	4	11/25/2024 18:26	CGS	B
2,4-Dinitrophenol	ND	ND	ug/kg	1830	905	SW846 8270E	4	11/25/2024 18:26	CGS	B
2,4-Dinitrotoluene	ND	ND	ug/kg	457	91.4	SW846 8270E	4	11/25/2024 18:26	CGS	B
2,6-Dinitrotoluene	2690		ug/kg	457	155	SW846 8270E	4	11/25/2024 18:26	CGS	B
2-Chloronaphthalene	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
2-Chlorophenol	ND	ND	ug/kg	914	155	SW846 8270E	4	11/25/2024 18:26	CGS	B
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	914	229	SW846 8270E	4	11/25/2024 18:26	CGS	B
2-Methylnaphthalene	44200		ug/kg	11400	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
2-Nitroaniline	ND	ND	ug/kg	914	105	SW846 8270E	4	11/25/2024 18:26	CGS	B
2-Nitrophenol	ND	ND	ug/kg	914	155	SW846 8270E	4	11/25/2024 18:26	CGS	B
3,3-Dichlorobenzidine	ND	ND	ug/kg	914	142	SW846 8270E	4	11/25/2024 18:26	CGS	B
3-Nitroaniline	ND	ND	ug/kg	914	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
4-Bromophenyl-phenylether	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
4-Chloro-3-methylphenol	ND	ND	ug/kg	914	155	SW846 8270E	4	11/25/2024 18:26	CGS	B

Results

Client Sample ID	MW-40-9	Collected	11/20/2024 10:15
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	914	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
4-Chlorophenyl-phenylether	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
4-Nitroaniline	ND	ND	ug/kg	914	133	SW846 8270E	4	11/25/2024 18:26	CGS	B
4-Nitrophenol	ND	ND	ug/kg	914	155	SW846 8270E	4	11/25/2024 18:26	CGS	B
Acenaphthene	8060		ug/kg	229	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
Acenaphthylene	85800		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Acetophenone	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
Anthracene	103000		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Atrazine	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
Benzaldehyde	ND	ND	ug/kg	914	91.4	SW846 8270E	4	11/25/2024 18:26	CGS	B
Benzo(a)anthracene	88500		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Benzo(a)pyrene	74100		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Benzo(b)fluoranthene	60600		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Benzo(g,h,i)perylene	35200		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Benzo(k)fluoranthene	60000		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Biphenyl	11600		ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
bis(2-Chloroethyl)ether	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
bis(2-Ethylhexyl)phthalate	ND	ND,7	ug/kg	457	101	SW846 8270E	4	11/25/2024 18:26	CGS	B
Butylbenzylphthalate	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
Caprolactam	ND	ND	ug/kg	914	178	SW846 8270E	4	11/25/2024 18:26	CGS	B
Carbazole	35900		ug/kg	11400	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Chrysene	82000		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Dibenzo(a,h)anthracene	10900		ug/kg	229	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
Dibenzofuran	62000		ug/kg	11400	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Diethylphthalate	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
Dimethylphthalate	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
Di-n-Butylphthalate	ND	ND	ug/kg	457	160	SW846 8270E	4	11/25/2024 18:26	CGS	B
Di-n-Octylphthalate	ND	ND,6	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
Fluoranthene	280000		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Fluorene	114000		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Hexachlorobenzene	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
Hexachlorobutadiene	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
Hexachlorocyclopentadiene	ND	ND,8	ug/kg	914	137	SW846 8270E	4	11/25/2024 18:26	CGS	B
Hexachloroethane	ND	ND	ug/kg	457	105	SW846 8270E	4	11/25/2024 18:26	CGS	B
Indeno(1,2,3-cd)pyrene	40700		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Isophorone	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
mp-Cresol	2950		ug/kg	914	155	SW846 8270E	4	11/25/2024 18:26	CGS	B
Naphthalene	199000		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Nitrobenzene	ND	ND	ug/kg	457	155	SW846 8270E	4	11/25/2024 18:26	CGS	B
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
N-Nitrosodiphenylamine	ND	ND	ug/kg	457	77.7	SW846 8270E	4	11/25/2024 18:26	CGS	B
o-Cresol	1360		ug/kg	914	155	SW846 8270E	4	11/25/2024 18:26	CGS	B
Pentachlorophenol	ND	ND	ug/kg	914	224	SW846 8270E	4	11/25/2024 18:26	CGS	B
Phenanthrene	340000		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B
Phenol	4420		ug/kg	914	155	SW846 8270E	4	11/25/2024 18:26	CGS	B

Results

Client Sample ID	MW-40-9	Collected	11/20/2024 10:15
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	182000		ug/kg	5710	1940	SW846 8270E	100	11/26/2024 18:24	S7M	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	0*%	19 – 132	11/26/2024 18:24	4
2,4,6-Tribromophenol	118-79-6	67.8%	19 – 132	11/25/2024 18:26	
2-Fluorobiphenyl	321-60-8	0*%	40 – 110	11/26/2024 18:24	3
2-Fluorobiphenyl	321-60-8	61.2%	40 – 110	11/25/2024 18:26	
2-Fluorophenol	367-12-4	55.3%	26 – 116	11/26/2024 18:24	
2-Fluorophenol	367-12-4	59.1%	26 – 116	11/25/2024 18:26	
Nitrobenzene-d5	4165-60-0	0*%	38 – 112	11/26/2024 18:24	2
Nitrobenzene-d5	4165-60-0	66.4%	38 – 112	11/25/2024 18:26	
Phenol-d5	4165-62-2	53.6%	35 – 111	11/26/2024 18:24	
Phenol-d5	4165-62-2	66.7%	35 – 111	11/25/2024 18:26	
Terphenyl-d14	98904-43-9	0*%	45 – 126	11/26/2024 18:24	5
Terphenyl-d14	98904-43-9	71.9%	45 – 126	11/25/2024 18:26	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	2100	461	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	2100	713	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,1,2-Trichloroethane	ND	ND	ug/kg	2100	692	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,1-Dichloroethane	ND	ND	ug/kg	2100	587	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,1-Dichloroethene	ND	ND	ug/kg	2100	608	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,2,3-Trichlorobenzene	ND	ND	ug/kg	4190	1950	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,2,3-Trichloropropane	ND	ND	ug/kg	4190	1260	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,2,4-Trichlorobenzene	ND	ND	ug/kg	4190	1720	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,2,4-Trimethylbenzene	5600		ug/kg	2100	524	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	14700	3150	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,2-Dibromoethane	ND	ND	ug/kg	2100	587	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,2-Dichlorobenzene	ND	ND	ug/kg	2100	797	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,2-Dichloroethane	ND	ND	ug/kg	2100	671	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,2-Dichloroethene, Total	ND	ND	ug/kg	4190	944	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,2-Dichloropropane	ND	ND	ug/kg	2100	503	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,3,5-Trimethylbenzene	3440		ug/kg	2100	419	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,3-Dichlorobenzene	ND	ND	ug/kg	2100	524	SW846 8260D	2000	12/04/2024 17:11	JTH	C
1,4-Dichlorobenzene	ND	ND	ug/kg	2100	566	SW846 8260D	2000	12/04/2024 17:11	JTH	C
2-Butanone	ND	ND	ug/kg	21000	3770	SW846 8260D	2000	12/04/2024 17:11	JTH	C
2-Hexanone	ND	ND	ug/kg	10500	2730	SW846 8260D	2000	12/04/2024 17:11	JTH	C
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	10500	3150	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Acetone	ND	ND	ug/kg	21000	6500	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Benzene	13100		ug/kg	2100	482	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Bromochloromethane	ND	ND	ug/kg	2100	671	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Bromodichloromethane	ND	ND	ug/kg	2100	566	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Bromoform	ND	ND	ug/kg	2100	839	SW846 8260D	2000	12/04/2024 17:11	JTH	C

Results

Client Sample ID	MW-40-9	Collected	11/20/2024 10:15
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Bromomethane	ND	ND	ug/kg	2100	818	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Carbon Disulfide	ND	ND	ug/kg	2100	482	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Carbon Tetrachloride	ND	ND	ug/kg	2100	650	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Chlorobenzene	ND	ND	ug/kg	2100	398	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Chlorodibromomethane	ND	ND	ug/kg	2100	944	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Chloroethane	ND	ND	ug/kg	2100	692	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Chloroform	ND	ND	ug/kg	2100	440	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Chloromethane	ND	ND	ug/kg	2100	650	SW846 8260D	2000	12/04/2024 17:11	JTH	C
cis-1,2-Dichloroethene	ND	ND	ug/kg	2100	671	SW846 8260D	2000	12/04/2024 17:11	JTH	C
cis-1,3-Dichloropropene	ND	ND	ug/kg	2100	650	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Cyclohexane	ND	ND	ug/kg	2100	608	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Dichlorodifluoromethane	ND	ND	ug/kg	2100	692	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Ethylbenzene	1100J	J	ug/kg	2100	713	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Freon 113	ND	ND	ug/kg	2100	545	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Isopropylbenzene	ND	ND	ug/kg	2100	461	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Methyl acetate	ND	ND	ug/kg	4190	671	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Methyl cyclohexane	ND	ND	ug/kg	2100	629	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Methyl t-Butyl Ether	ND	ND	ug/kg	2100	692	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Methylene Chloride	ND	ND	ug/kg	2100	944	SW846 8260D	2000	12/04/2024 17:11	JTH	C
mp-Xylene	4900		ug/kg	4190	1090	SW846 8260D	2000	12/04/2024 17:11	JTH	C
o-Xylene	1970J	J	ug/kg	2100	692	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Styrene	1550J	J	ug/kg	2100	503	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Tetrachloroethene	ND	ND	ug/kg	2100	734	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Toluene	4930		ug/kg	2100	482	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Total Xylenes	6870		ug/kg	6290	1380	SW846 8260D	2000	12/04/2024 17:11	JTH	C
trans-1,2-Dichloroethene	ND	ND	ug/kg	2100	545	SW846 8260D	2000	12/04/2024 17:11	JTH	C
trans-1,3-Dichloropropene	ND	ND	ug/kg	2100	608	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Trichloroethene	ND	ND	ug/kg	2100	692	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Trichlorofluoromethane	ND	ND	ug/kg	2100	503	SW846 8260D	2000	12/04/2024 17:11	JTH	C
Vinyl Chloride	ND	ND	ug/kg	2100	629	SW846 8260D	2000	12/04/2024 17:11	JTH	C

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.4%	71 – 146	12/04/2024 17:11	
4-Bromofluorobenzene	460-00-4	99.9%	46 – 138	12/04/2024 17:11	
Dibromofluoromethane	1868-53-7	91.8%	42 – 143	12/04/2024 17:11	
Toluene-d8	2037-26-5	99.5%	54 – 141	12/04/2024 17:11	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	24.6		%	0.1	0.01	S2540G-15	1	11/22/2024 20:43	LMD	B
Total Solids	75.4		%	0.1	0.01	S2540G-15	1	11/22/2024 20:43	LMD	B

Results

Client Sample ID	MW-40-9	Collected	11/20/2024 10:15
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WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	MW-41-8	Collected	11/20/2024 13:30
Lab Sample ID	3389084005	Lab Receipt	11/22/2024 09:07

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	9130		mg/kg	60.8	20.2	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Antimony, Total	ND	ND	mg/kg	12.2	4.1	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Arsenic, Total	16.5		mg/kg	12.2	4.1	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Barium, Total	115		mg/kg	6.1	2.0	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Beryllium, Total	2.1J	J	mg/kg	6.1	2.0	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Cadmium, Total	2.5J	J	mg/kg	3.0	1.0	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Calcium, Total	56800		mg/kg	60.8	20.2	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Chromium, Total	55.0		mg/kg	6.1	2.0	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Cobalt, Total	13.5		mg/kg	6.1	2.0	SW846 6010C	5	12/13/2024 12:29	MSY	B1
Copper, Total	62.6		mg/kg	12.2	4.1	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Iron, Total	66300		mg/kg	60.8	20.2	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Lead, Total	176		mg/kg	12.2	4.1	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Magnesium, Total	24500		mg/kg	60.8	20.2	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Manganese, Total	4600		mg/kg	6.1	2.0	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Mercury, Total	1.0		mg/kg	0.067	0.021	SW846 7471B	1	12/05/2024 12:28	AJN	B
Nickel, Total	26.7		mg/kg	12.2	4.1	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Potassium, Total	985		mg/kg	304	101	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Selenium, Total	ND	ND	mg/kg	30.4	10.1	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Silver, Total	ND	ND	mg/kg	3.0	1.0	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Sodium, Total	592		mg/kg	304	101	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Thallium, Total	ND	ND	mg/kg	18.2	6.1	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Vanadium, Total	57.7		mg/kg	6.1	2.0	SW846 6010C	5	12/12/2024 12:47	MSY	B1
Zinc, Total	247		mg/kg	12.2	4.1	SW846 6010C	5	12/12/2024 12:47	MSY	B1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
1,4-Dioxane	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	1010	171	SW846 8270E	4	11/25/2024 18:51	CGS	B
2,4,5-Trichlorophenol	ND	ND	ug/kg	1010	171	SW846 8270E	4	11/25/2024 18:51	CGS	B
2,4,6-Trichlorophenol	ND	ND	ug/kg	1010	171	SW846 8270E	4	11/25/2024 18:51	CGS	B
2,4-Dichlorophenol	ND	ND	ug/kg	1010	171	SW846 8270E	4	11/25/2024 18:51	CGS	B
2,4-Dimethylphenol	7440		ug/kg	1010	171	SW846 8270E	4	11/25/2024 18:51	CGS	B
2,4-Dinitrophenol	ND	ND	ug/kg	2010	996	SW846 8270E	4	11/25/2024 18:51	CGS	B
2,4-Dinitrotoluene	ND	ND	ug/kg	503	101	SW846 8270E	4	11/25/2024 18:51	CGS	B
2,6-Dinitrotoluene	ND	ND	ug/kg	503	171	SW846 8270E	4	11/25/2024 18:51	CGS	B
2-Chloronaphthalene	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
2-Chlorophenol	ND	ND	ug/kg	1010	171	SW846 8270E	4	11/25/2024 18:51	CGS	B
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	1010	252	SW846 8270E	4	11/25/2024 18:51	CGS	B
2-Methylnaphthalene	612000		ug/kg	25200	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
2-Nitroaniline	ND	ND	ug/kg	1010	116	SW846 8270E	4	11/25/2024 18:51	CGS	B
2-Nitrophenol	ND	ND	ug/kg	1010	171	SW846 8270E	4	11/25/2024 18:51	CGS	B
3,3-Dichlorobenzidine	ND	ND	ug/kg	1010	156	SW846 8270E	4	11/25/2024 18:51	CGS	B
3-Nitroaniline	ND	ND	ug/kg	1010	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
4-Bromophenyl-phenylether	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
4-Chloro-3-methylphenol	ND	ND	ug/kg	1010	171	SW846 8270E	4	11/25/2024 18:51	CGS	B

Results

Client Sample ID	MW-41-8	Collected	11/20/2024 13:30
Lab Sample ID	3389084005	Lab Receipt	11/22/2024 09:07

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	1010	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
4-Chlorophenyl-phenylether	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
4-Nitroaniline	ND	ND	ug/kg	1010	146	SW846 8270E	4	11/25/2024 18:51	CGS	B
4-Nitrophenol	ND	ND	ug/kg	1010	171	SW846 8270E	4	11/25/2024 18:51	CGS	B
Acenaphthene	47400		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Acenaphthylene	775000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Acetophenone	6140		ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
Anthracene	625000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Atrazine	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
Benzaldehyde	ND	ND	ug/kg	1010	101	SW846 8270E	4	11/25/2024 18:51	CGS	B
Benzo(a)anthracene	443000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Benzo(a)pyrene	354000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Benzo(b)fluoranthene	297000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Benzo(g,h,i)perylene	156000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Benzo(k)fluoranthene	306000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Biphenyl	130000		ug/kg	25200	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
bis(2-Chloroethyl)ether	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
bis(2-Ethylhexyl)phthalate	ND	ND,7	ug/kg	503	111	SW846 8270E	4	11/25/2024 18:51	CGS	B
Butylbenzylphthalate	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
Caprolactam	ND	ND	ug/kg	1010	196	SW846 8270E	4	11/25/2024 18:51	CGS	B
Carbazole	269000		ug/kg	25200	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Chrysene	449000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Dibenzo(a,h)anthracene	51000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Dibenzofuran	487000		ug/kg	25200	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Diethylphthalate	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
Dimethylphthalate	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
Di-n-Butylphthalate	ND	ND	ug/kg	503	176	SW846 8270E	4	11/25/2024 18:51	CGS	B
Di-n-Octylphthalate	ND	ND,6	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
Fluoranthene	1370000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Fluorene	777000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Hexachlorobenzene	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
Hexachlorobutadiene	265J	J	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
Hexachlorocyclopentadiene	ND	ND,8	ug/kg	1010	151	SW846 8270E	4	11/25/2024 18:51	CGS	B
Hexachloroethane	ND	ND	ug/kg	503	116	SW846 8270E	4	11/25/2024 18:51	CGS	B
Indeno(1,2,3-cd)pyrene	188000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Isophorone	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
mp-Cresol	8550		ug/kg	1010	171	SW846 8270E	4	11/25/2024 18:51	CGS	B
Naphthalene	3600000	E	ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Nitrobenzene	ND	ND	ug/kg	503	171	SW846 8270E	4	11/25/2024 18:51	CGS	B
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
N-Nitrosodiphenylamine	ND	ND	ug/kg	503	85.5	SW846 8270E	4	11/25/2024 18:51	CGS	B
o-Cresol	4490		ug/kg	1010	171	SW846 8270E	4	11/25/2024 18:51	CGS	B
Pentachlorophenol	ND	ND	ug/kg	1010	247	SW846 8270E	4	11/25/2024 18:51	CGS	B
Phenanthrene	2020000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B
Phenol	7340		ug/kg	1010	171	SW846 8270E	4	11/25/2024 18:51	CGS	B

Results

Client Sample ID	MW-41-8	Collected	11/20/2024 13:30
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	890000		ug/kg	12600	4280	SW846 8270E	200	11/26/2024 18:50	S7M	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	0*%	19 – 132	11/26/2024 18:50	13
2,4,6-Tribromophenol	118-79-6	46.6%	19 – 132	11/25/2024 18:51	
2-Fluorobiphenyl	321-60-8	0*%	40 – 110	11/26/2024 18:50	12
2-Fluorobiphenyl	321-60-8	52.3%	40 – 110	11/25/2024 18:51	
2-Fluorophenol	367-12-4	0*%	26 – 116	11/26/2024 18:50	9
2-Fluorophenol	367-12-4	50.3%	26 – 116	11/25/2024 18:51	
Nitrobenzene-d5	4165-60-0	0*%	38 – 112	11/26/2024 18:50	11
Nitrobenzene-d5	4165-60-0	55.2%	38 – 112	11/25/2024 18:51	
Phenol-d5	4165-62-2	0*%	35 – 111	11/26/2024 18:50	10
Phenol-d5	4165-62-2	57.6%	35 – 111	11/25/2024 18:51	
Terphenyl-d14	98904-43-9	0*%	45 – 126	11/26/2024 18:50	14
Terphenyl-d14	98904-43-9	74.4%	45 – 126	11/25/2024 18:51	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	16100	3530	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	16100	5460	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,1,2-Trichloroethane	ND	ND	ug/kg	16100	5300	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,1-Dichloroethane	ND	ND	ug/kg	16100	4500	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,1-Dichloroethene	ND	ND	ug/kg	16100	4660	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,2,3-Trichlorobenzene	ND	ND	ug/kg	32100	14900	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,2,3-Trichloropropane	ND	ND	ug/kg	32100	9640	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,2,4-Trichlorobenzene	ND	ND	ug/kg	32100	13200	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,2,4-Trimethylbenzene	46100		ug/kg	16100	4010	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	112000	24100	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,2-Dibromoethane	ND	ND	ug/kg	16100	4500	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,2-Dichlorobenzene	ND	ND	ug/kg	16100	6100	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,2-Dichloroethane	ND	ND	ug/kg	16100	5140	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,2-Dichloroethene, Total	ND	ND	ug/kg	32100	7230	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,2-Dichloropropane	ND	ND	ug/kg	16100	3850	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,3,5-Trimethylbenzene	33500		ug/kg	16100	3210	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,3-Dichlorobenzene	ND	ND	ug/kg	16100	4010	SW846 8260D	10000	12/04/2024 17:51	JTH	C
1,4-Dichlorobenzene	ND	ND	ug/kg	16100	4340	SW846 8260D	10000	12/04/2024 17:51	JTH	C
2-Butanone	ND	ND	ug/kg	161000	28900	SW846 8260D	10000	12/04/2024 17:51	JTH	C
2-Hexanone	ND	ND	ug/kg	80300	20900	SW846 8260D	10000	12/04/2024 17:51	JTH	C
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	80300	24100	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Acetone	ND	ND	ug/kg	161000	49800	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Benzene	186000		ug/kg	16100	3690	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Bromochloromethane	ND	ND	ug/kg	16100	5140	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Bromodichloromethane	ND	ND	ug/kg	16100	4340	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Bromoform	ND	ND	ug/kg	16100	6420	SW846 8260D	10000	12/04/2024 17:51	JTH	C

Results

Client Sample ID	MW-41-8	Collected	11/20/2024 13:30
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Bromomethane	ND	ND	ug/kg	16100	6260	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Carbon Disulfide	ND	ND	ug/kg	16100	3690	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Carbon Tetrachloride	ND	ND	ug/kg	16100	4980	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Chlorobenzene	ND	ND	ug/kg	16100	3050	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Chlorodibromomethane	ND	ND	ug/kg	16100	7230	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Chloroethane	ND	ND	ug/kg	16100	5300	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Chloroform	ND	ND	ug/kg	16100	3370	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Chloromethane	ND	ND	ug/kg	16100	4980	SW846 8260D	10000	12/04/2024 17:51	JTH	C
cis-1,2-Dichloroethene	ND	ND	ug/kg	16100	5140	SW846 8260D	10000	12/04/2024 17:51	JTH	C
cis-1,3-Dichloropropene	ND	ND	ug/kg	16100	4980	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Cyclohexane	ND	ND	ug/kg	16100	4660	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Dichlorodifluoromethane	ND	ND	ug/kg	16100	5300	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Ethylbenzene	11200J	J	ug/kg	16100	5460	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Freon 113	ND	ND	ug/kg	16100	4180	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Isopropylbenzene	ND	ND	ug/kg	16100	3530	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Methyl acetate	ND	ND	ug/kg	32100	5140	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Methyl cyclohexane	ND	ND	ug/kg	16100	4820	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Methyl t-Butyl Ether	ND	ND	ug/kg	16100	5300	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Methylene Chloride	ND	ND	ug/kg	16100	7230	SW846 8260D	10000	12/04/2024 17:51	JTH	C
mp-Xylene	129000		ug/kg	32100	8350	SW846 8260D	10000	12/04/2024 17:51	JTH	C
o-Xylene	50400		ug/kg	16100	5300	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Styrene	7780J	J	ug/kg	16100	3850	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Tetrachloroethene	ND	ND	ug/kg	16100	5620	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Toluene	65400		ug/kg	16100	3690	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Total Xylenes	179000		ug/kg	48200	10600	SW846 8260D	10000	12/04/2024 17:51	JTH	C
trans-1,2-Dichloroethene	ND	ND	ug/kg	16100	4180	SW846 8260D	10000	12/04/2024 17:51	JTH	C
trans-1,3-Dichloropropene	ND	ND	ug/kg	16100	4660	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Trichloroethene	ND	ND	ug/kg	16100	5300	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Trichlorofluoromethane	ND	ND	ug/kg	16100	3850	SW846 8260D	10000	12/04/2024 17:51	JTH	C
Vinyl Chloride	ND	ND	ug/kg	16100	4820	SW846 8260D	10000	12/04/2024 17:51	JTH	C

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	71 – 146	12/04/2024 17:51	
4-Bromofluorobenzene	460-00-4	97.9%	46 – 138	12/04/2024 17:51	
Dibromofluoromethane	1868-53-7	91.6%	42 – 143	12/04/2024 17:51	
Toluene-d8	2037-26-5	98%	54 – 141	12/04/2024 17:51	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	26.4		%	0.1	0.01	S2540G-15	1	11/22/2024 20:43	LMD	B
Total Solids	73.6		%	0.1	0.01	S2540G-15	1	11/22/2024 20:43	LMD	B

Results

Client Sample ID	MW-41-8	Collected	11/20/2024 13:30
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WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	TB-6	Collected	11/20/2024 13:30
Lab Sample ID	3389084006	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/27/2024 13:54	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/27/2024 13:54	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	11/27/2024 13:54	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	11/27/2024 13:54	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	11/27/2024 13:54	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	11/27/2024 13:54	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 13:54	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 13:54	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/27/2024 13:54	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	11/27/2024 13:54	TMP	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	11/27/2024 13:54	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 13:54	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 13:54	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	11/27/2024 13:54	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/27/2024 13:54	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:54	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	11/27/2024 13:54	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 13:54	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 13:54	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 13:54	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 13:54	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:54	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/27/2024 13:54	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/27/2024 13:54	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/27/2024 13:54	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	11/27/2024 13:54	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/27/2024 13:54	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:54	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/27/2024 13:54	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	11/27/2024 13:54	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:54	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 13:54	TMP	A

Results

Client Sample ID	TB-6	Collected	11/20/2024 13:30
Lab Sample ID	3389084006	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	11/27/2024 13:54	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 13:54	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	11/27/2024 13:54	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/27/2024 13:54	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 13:54	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 13:54	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 13:54	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/27/2024 13:54	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	11/27/2024 13:54	
4-Bromofluorobenzene	460-00-4	98.4%	79 – 114	11/27/2024 13:54	
Dibromofluoromethane	1868-53-7	102%	78 – 116	11/27/2024 13:54	
Toluene-d8	2037-26-5	104%	76 – 127	11/27/2024 13:54	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3389084001	EB-1	SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
3389084002	FB-1	SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
3389084003	EB-2	SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
3389084004	MW-40-9	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3389084005	MW-41-8	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3389084006	TB-6	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1340185	Prep Method	SW846 3015A
Date	11/28/2024 01:45	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3389084002 3389084003 3389084001

Matrix Spike 3910000 (MS) 3389260007 (non-Project Sample) For QC Batch 1340185

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3910001 (MSD) 3389260007 (non-Project Sample) For QC Batch 1340185

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sodium, Total	7440-23-5	MS	44.8	21.80	22.20	104	75 - 125		
Sodium, Total	7440-23-5	MSD	45	21.80	22.20	104	75 - 125	RPD 0.39 (Max-20)	

Method Blank 3909998 (MB) Created on 11/25/2024 15:18 For QC Batch 1340185

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3909999 (LCS) Created on 11/25/2024 15:18 For QC Batch 1340185

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.1		1.10	100	80 - 120		
Antimony, Total	7440-36-0	LCS	0.24		0.22	107	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.11		0.11	100	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	104	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.23		0.22	104	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.11		0.11	103	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	98.1	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	104	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	104	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	99.6	80 - 120		
Iron, Total	7439-89-6	LCS	1.1		1.10	103	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	104	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.1		1.10	103	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	109	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	104	80 - 120		
Potassium, Total	7440-09-7	LCS	22.5		22.20	101	80 - 120		
Selenium, Total	7782-49-2	LCS	1.1		1.10	100	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	104	80 - 120		
Sodium, Total	7440-23-5	LCS	22.9		22.20	103	80 - 120		
Thallium, Total	7440-28-0	LCS	0.1		0.11	92.2	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.058		0.0560	105	80 - 120		
Zinc, Total	7440-66-6	LCS	0.56		0.56	101	80 - 120		

QC Batch

QC Batch	1348909	Prep Method	SW846 7470A
Date	12/02/2024 10:06	Analysis Method	SW846 7470A
Tech.	AXW		

Associated Samples

3389084002 3389084003 3389084001

Matrix Spike 3911958 (MS) 3389179002 (non-Project Sample) For QC Batch 1348909

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911959 (MSD) 3389179002 (non-Project Sample) For QC Batch 1348909

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0044	0.000033	0.0050	87.9	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0041	0.000033	0.0050	82.1	70 - 130	RPD 6.77 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3911960 (MS) 3389583005 (non-Project Sample) For QC Batch 1348909

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911961 (MSD) 3389583005 (non-Project Sample) For QC Batch 1348909

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0045	0.000089	0.0050	88.6	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0.000089	0.0050	94	70 - 130	RPD 5.80 (Max-20)	

Method Blank 3911956 (MB) Created on 12/02/2024 08:03 For QC Batch 1348909

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3911957 (LCS) Created on 12/02/2024 08:03 For QC Batch 1348909

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0019		0.0020	96.5	85 - 115		

QC Batch

QC Batch	1348984	Prep Method	SW846 3051A
Date	12/02/2024 14:00	Analysis Method	SW846 6010C
Tech.	NBU		

Associated Samples

3389084004 3389084005

Matrix Spike 3912175 (MS1) 3389644001 (non-Project Sample) For QC Batch 1348984

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3912176 (MSD1) 3389644001 (non-Project Sample) For QC Batch 1348984

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Zinc, Total	7440-66-6	MS	531	428	99.80	NC	75 - 125		
Zinc, Total	7440-66-6	MSD	529	428	97.50	NC	75 - 125	RPD 0.29 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Method Blank 3912172 (MB) Created on 12/02/2024 13:12 For QC Batch 1348984

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/kg	10.0	ND
Antimony, Total	7440-36-0	BLK	ND	mg/kg	2.0	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/kg	2.0	ND
Barium, Total	7440-39-3	BLK	ND	mg/kg	1.0	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/kg	1.0	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/kg	0.50	ND
Calcium, Total	7440-70-2	BLK	ND	mg/kg	10.0	ND
Chromium, Total	7440-47-3	BLK	0.51J	mg/kg	1.0	J
Cobalt, Total	7440-48-4	BLK	ND	mg/kg	1.0	ND
Copper, Total	7440-50-8	BLK	ND	mg/kg	2.0	ND
Iron, Total	7439-89-6	BLK	ND	mg/kg	10.0	ND
Lead, Total	7439-92-1	BLK	ND	mg/kg	2.0	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/kg	10.0	ND
Manganese, Total	7439-96-5	BLK	ND	mg/kg	1.0	ND
Nickel, Total	7440-02-0	BLK	ND	mg/kg	2.0	ND
Potassium, Total	7440-09-7	BLK	ND	mg/kg	50.0	ND
Selenium, Total	7782-49-2	BLK	ND	mg/kg	5.0	ND
Silver, Total	7440-22-4	BLK	ND	mg/kg	0.50	ND
Sodium, Total	7440-23-5	BLK	ND	mg/kg	50.0	ND
Thallium, Total	7440-28-0	BLK	ND	mg/kg	3.0	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/kg	1.0	ND
Zinc, Total	7440-66-6	BLK	1.1J	mg/kg	2.0	J

Lab Control Standard 3912173 (LCS1) Created on 12/02/2024 13:12 For QC Batch 1348984

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	102		100	102	80 - 120		
Antimony, Total	7440-36-0	LCS	40.3		40	101	80 - 120		
Arsenic, Total	7440-38-2	LCS	39.1		40	97.8	80 - 120		
Barium, Total	7440-39-3	LCS	104		100	104	80 - 120		
Beryllium, Total	7440-41-7	LCS	40.6		40	101	80 - 120		
Cadmium, Total	7440-43-9	LCS	20.5		20	102	80 - 120		
Calcium, Total	7440-70-2	LCS	517		500	103	80 - 120		
Chromium, Total	7440-47-3	LCS	21.1		20	105	80 - 120		
Cobalt, Total	7440-48-4	LCS	105		100	105	80 - 120		
Copper, Total	7440-50-8	LCS	101		100	101	80 - 120		
Iron, Total	7439-89-6	LCS	1030		1000	103	80 - 120		
Lead, Total	7439-92-1	LCS	103		100	103	80 - 120		
Magnesium, Total	7439-95-4	LCS	530		500	106	80 - 120		
Manganese, Total	7439-96-5	LCS	20.6		20	103	80 - 120		
Nickel, Total	7440-02-0	LCS	104		100	104	80 - 120		
Potassium, Total	7440-09-7	LCS	542		500	108	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Selenium, Total	7782-49-2	LCS	102		100	102	80 - 120		
Silver, Total	7440-22-4	LCS	20		20	99.8	80 - 120		
Sodium, Total	7440-23-5	LCS	534		500	107	80 - 120		
Thallium, Total	7440-28-0	LCS	102		100	102	80 - 120		
Vanadium, Total	7440-62-2	LCS	20.9		20	105	80 - 120		
Zinc, Total	7440-66-6	LCS	102		100	102	80 - 120		

QC Batch

QC Batch	1350853	Prep Method	SW846 7471B
Date	12/05/2024 08:22	Analysis Method	SW846 7471B
Tech.	AJN		

Associated Samples

3389084004 3389084005

Matrix Spike 3913351 (MS) 3389452003 (non-Project Sample) For QC Batch 1350853

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3913352 (MSD) 3389452003 (non-Project Sample) For QC Batch 1350853

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.91	0.09	0.99	82.7	80 - 120		
Mercury, Total	7439-97-6	MSD	0.92	0.09	1	83	80 - 120	RPD 1.41 (Max-20)	

Matrix Spike 3913353 (MS) 3389154004 (non-Project Sample) For QC Batch 1350853

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3913354 (MSD) 3389154004 (non-Project Sample) For QC Batch 1350853

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	1.6	0.44	0.99	121*	80 - 120		
Mercury, Total	7439-97-6	MSD	1.5	0.44	0.95	111	80 - 120	RPD 8.85 (Max-20)	

Method Blank 3913349 (MB) Created on 12/04/2024 12:26 For QC Batch 1350853

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/kg	0.050	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers

Lab Control Standard 3913350 (LCS) Created on 12/04/2024 12:26 For QC Batch 1350853

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.34		0.40	86	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1338201	Prep Method	SW846 3546
Date	11/24/2024 19:55	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3389084005 3389084004

Method Blank 3909286 (MB) Created on 11/22/2024 16:36 For QC Batch 1338201

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4100	5000	81.9	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	2020	2500	80.8	40 - 110	
2-Fluorophenol	367-12-4	BLK	4160	5000	83.3	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	2100	2500	83.9	38 - 112	
Phenol-d5	4165-62-2	BLK	4350	5000	87.1	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2380	2500	95.3	45 - 126	

Lab Control Standard 3909287 (LCS) Created on 11/22/2024 16:36 For QC Batch 1338201

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1950		2500	77.9	51 - 102		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS	1750		2500	69.8	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	3490		5000	69.7	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4270		5000	85.4	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4170		5000	83.4	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4380		5000	87.6	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	4500		5000	90	59 - 133		
2,4-Dinitrophenol	51-28-5	LCS	4270		5000	85.5	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2350		2500	93.9	62 - 115		
2,6-Dinitrotoluene	606-20-2	LCS	2290		2500	91.6	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	2120		2500	84.9	59 - 104		
2-Chlorophenol	95-57-8	LCS	4560		5000	91.2	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4540		5000	90.7	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	1990		2500	79.6	59 - 108		
2-Nitroaniline	88-74-4	LCS	2350		2500	94.1	60 - 115		
2-Nitrophenol	88-75-5	LCS	4560		5000	91.3	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3200		5000	64	25 - 104		
3-Nitroaniline	99-09-2	LCS	2480		2500	99.1	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	1920		2500	76.7	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	4290		5000	85.7	59 - 115		
4-Chloroaniline	106-47-8	LCS	2330		2500	93.4	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	1980		2500	79.2	59 - 107		
4-Nitroaniline	100-01-6	LCS	2480		2500	99.1	49 - 121		
4-Nitrophenol	100-02-7	LCS	4950		5000	99.1	53 - 124		
Acenaphthene	83-32-9	LCS	2120		2500	84.7	61 - 105		
Acenaphthylene	208-96-8	LCS	1870		2500	74.8	63 - 106		
Acetophenone	98-86-2	LCS	1900		2500	76	33 - 98		
Anthracene	120-12-7	LCS	2200		2500	88	60 - 107		
Atrazine	1912-24-9	LCS	2060		2500	82.5	62 - 116		
Benzaldehyde	100-52-7	LCS	2100		2500	83.9	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2220		2500	88.8	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2250		2500	90	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2190		2500	87.4	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	2660		2500	106	57 - 119		
Benzo(k)fluoranthene	207-08-9	LCS	2210		2500	88.4	63 - 116		
Biphenyl	92-52-4	LCS	1950		2500	77.9	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	2080		2500	83.1	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	2070		2500	82.6	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	1830		2500	73.2	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	1480		2500	59.1	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	1720		2500	68.8	58 - 125		
Caprolactam	105-60-2	LCS	2660		2500	107	51 - 119		
Carbazole	86-74-8	LCS	2320		2500	93	66 - 117		
Chrysene	218-01-9	LCS	2330		2500	93.1	65 - 113		
Dibenzo(a,h)anthracene	53-70-3	LCS	2410		2500	96.5	59 - 116		
Dibenzofuran	132-64-9	LCS	2080		2500	83.3	62 - 106		
Diethylphthalate	84-66-2	LCS	1950		2500	78	59 - 112		
Dimethylphthalate	131-11-3	LCS	2030		2500	81.3	60 - 111		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Di-n-Butylphthalate	84-74-2	LCS	1810		2500	72.4	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	1500		2500	60	47 - 134		
Fluoranthene	206-44-0	LCS	2230		2500	89.1	61 - 114		
Fluorene	86-73-7	LCS	2090		2500	83.6	62 - 107		
Hexachlorobenzene	118-74-1	LCS	2050		2500	81.9	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2120		2500	84.9	56 - 127		
Hexachlorocyclopentadiene	77-47-4	LCS	1180		2500	47.3	20 - 124		
Hexachloroethane	67-72-1	LCS	1890		2500	75.6	57 - 101		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	2360		2500	94.5	53 - 118		
Isophorone	78-59-1	LCS	1950		2500	78	41 - 101		
mp-Cresol	108394/106445	LCS	4310		5000	86.3	60 - 109		
Naphthalene	91-20-3	LCS	2100		2500	83.8	60 - 102		
Nitrobenzene	98-95-3	LCS	2170		2500	86.9	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	1970		2500	78.9	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2460		2500	98.4	73 - 129		
o-Cresol	95-48-7	LCS	4180		5000	83.6	61 - 108		
Pentachlorophenol	87-86-5	LCS	2990		5000	59.8	46 - 138		
Phenanthrene	85-01-8	LCS	2170		2500	87	61 - 106		
Phenol	108-95-2	LCS	4420		5000	88.5	57 - 110		
Pyrene	129-00-0	LCS	2170		2500	86.9	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	4280	5000	85.7	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	1970	2500	78.8	40 - 110	
2-Fluorophenol	367-12-4	LCS	4340	5000	86.8	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2150	2500	86.1	38 - 112	
Phenol-d5	4165-62-2	LCS	4440	5000	88.9	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2230	2500	89.3	45 - 126	

QC Batch

QC Batch	1345189	Prep Method	SW846 3510C
Date	11/26/2024 22:00	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3389084001 3389084003 3389084002

Method Blank 3910856 (MB) Created on 11/27/2024 06:39 For QC Batch 1345189

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	94.2	100	94.2	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	41	50	82	24 - 116	
2-Fluorophenol	367-12-4	BLK	59.4	100	59.4	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	42.6	50	85.1	32 - 125	
Phenol-d5	4165-62-2	BLK	39.8	100	39.8	7 - 56	
Terphenyl-d14	98904-43-9	BLK	41.6	50	83.3	41 - 145	

Lab Control Standard 3910857 (LCS) Created on 11/27/2024 06:40 For QC Batch 1345189

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	30.3		50	60.5	18 - 124		
1,4-Dioxane	123-91-1	LCS	26.5		50	53	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	89.3		100	89.3	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	86.7		100	86.7	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	84		100	84	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	82.4		100	82.4	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	83.9		100	83.9	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	75.9		100	75.9	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	52.3		50	105	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	49.7		50	99.4	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	34.6		50	69.1	27 - 125		
2-Chlorophenol	95-57-8	LCS	74.8		100	74.8	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	82.3		100	82.3	46 - 133		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Methylnaphthalene	91-57-6	LCS	34.5		50	68.9	22 - 124		
2-Nitroaniline	88-74-4	LCS	47.8		50	95.6	55 - 138		
2-Nitrophenol	88-75-5	LCS	83.4		100	83.4	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	43.3		100	43.3	38 - 115		
3-Nitroaniline	99-09-2	LCS	43.1		50	86.1	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	47.7		50	95.4	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	83.9		100	83.9	46 - 144		
4-Chloroaniline	106-47-8	LCS	30.1		50	60.1	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	46.7		50	93.5	38 - 128		
4-Nitroaniline	100-01-6	LCS	45		50	90.1	53 - 124		
4-Nitrophenol	100-02-7	LCS	39.3		100	39.3	5 - 108		
Acenaphthene	83-32-9	LCS	39.6		50	79.1	36 - 130		
Acenaphthylene	208-96-8	LCS	34.7		50	69.3	39 - 130		
Acetophenone	98-86-2	LCS	36.7		50	73.3	49 - 117		
Anthracene	120-12-7	LCS	46.8		50	93.5	48 - 133		
Atrazine	1912-24-9	LCS	51.6		50	103	44 - 149		
Benzaldehyde	100-52-7	LCS	43.2		50	86.4	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	45.6		50	91.3	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	45.7		50	91.5	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	48.2		50	96.4	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	44.8		50	89.6	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	48.2		50	96.4	52 - 130		
Biphenyl	92-52-4	LCS	33.8		50	67.5	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	44.2		50	88.4	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	40.6		50	81.2	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	34.9		50	69.8	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	44.9		50	89.7	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	47.6		50	95.3	50 - 137		
Caprolactam	105-60-2	LCS	18.3		50	36.7	5 - 118		
Carbazole	86-74-8	LCS	45.1		50	90.1	52 - 139		
Chrysene	218-01-9	LCS	47		50	93.9	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	48		50	96	56 - 130		
Dibenzofuran	132-64-9	LCS	41.4		50	82.7	39 - 133		
Diethylphthalate	84-66-2	LCS	50.7		50	101	45 - 132		
Dimethylphthalate	131-11-3	LCS	47.9		50	95.9	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	47.7		50	95.4	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	48.9		50	97.8	35 - 141		
Fluoranthene	206-44-0	LCS	48.2		50	96.5	49 - 132		
Fluorene	86-73-7	LCS	45.3		50	90.6	42 - 131		
Hexachlorobenzene	118-74-1	LCS	47.7		50	95.3	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	25.9		50	51.8	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	11.4		50	22.8	5 - 97		
Hexachloroethane	67-72-1	LCS	18.8		50	37.6	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	44.6		50	89.1	55 - 126		
Isophorone	78-59-1	LCS	41.4		50	82.7	45 - 129		
mp-Cresol	108394/106445	LCS	72.1		100	72.1	28 - 128		
Naphthalene	91-20-3	LCS	31.4		50	62.7	21 - 123		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrobenzene	98-95-3	LCS	37.4		50	74.7	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	40.5		50	81	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	55.6		50	111	58 - 125		
o-Cresol	95-48-7	LCS	68.4		100	68.4	34 - 136		
Pentachlorophenol	87-86-5	LCS	86.7		100	86.7	41 - 149		
Phenanthrene	85-01-8	LCS	45.5		50	91	46 - 131		
Phenol	108-95-2	LCS	40.4		100	40.4	5 - 111		
Pyrene	129-00-0	LCS	44		50	87.9	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	96.7	100	96.7	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	41.6	50	83.2	24 - 116	
2-Fluorophenol	367-12-4	LCS	54.1	100	54.1	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	41.6	50	83.3	32 - 125	
Phenol-d5	4165-62-2	LCS	39	100	39	7 - 56	
Terphenyl-d14	98904-43-9	LCS	43.9	50	87.7	41 - 145	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1345806	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3389084006 3389084003 3389084001 3389084002

Matrix Spike 3911315 (MS) 3388588011 (non-Project Sample) For QC Batch 1345806

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911316 (MSD) 3388588011 (non-Project Sample) For QC Batch 1345806

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	24.5	0	20	122	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	23.8	0	20	119	66 - 130	RPD 2.60 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	26.7	0	20	133	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	25.5	0	20	128	74 - 135	RPD 4.33 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	25	0	20	125	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	22.9	0	20	115	82 - 126	RPD 8.55 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	23.5	0	20	118	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	22.6	0	20	113	78 - 124	RPD 4.16 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	24.6	0	20	123	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	24.1	0	20	120	63 - 128	RPD 1.98 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	24.4	0	20	122	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	23.1	0	20	115	61 - 126	RPD 5.63 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	25.7	0	20	128	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	24.5	0	20	122	75 - 132	RPD 4.76 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	25.7	0	20	128*	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	24.8	0	20	124*	67 - 123	RPD 3.70 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	25.2	0	20	126*	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	23.7	0	20	118	76 - 125	RPD 6.11 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	25.7	0	20	128	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	24.6	0	20	123	59 - 133	RPD 4.17 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	25.4	0	20	127*	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	23.7	0	20	118	80 - 124	RPD 6.86 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	23.6	0	20	118	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	22.5	0	20	113	82 - 118	RPD 4.45 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	22.4	0	20	112	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	21.5	0	20	107	70 - 133	RPD 3.92 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	23.7	0	20	118	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	22.7	0	20	114	81 - 127	RPD 4.04 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	25.5	0	20	127*	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	23.9	0	20	120	76 - 125	RPD 6.24 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	23.2	0	20	116	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	22.1	0	20	111	81 - 118	RPD 4.68 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	23.2	0	20	116	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	22.1	0	20	111	81 - 116	RPD 4.96 (Max-15)	
2-Butanone	78-93-3	MS	123	0	100	123	50 - 152		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Butanone	78-93-3	MSD	114	0	100	114	50 - 152	RPD 7.37 (Max-16)	
2-Hexanone	591-78-6	MS	131	0	100	131	65 - 154		
2-Hexanone	591-78-6	MSD	122	0	100	122	65 - 154	RPD 7.75 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	134	0	100	134	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	124	0	100	124	71 - 146	RPD 7.39 (Max-16)	
Acetone	67-64-1	MS	112	0	100	112	40 - 151		
Acetone	67-64-1	MSD	108	0	100	108	40 - 151	RPD 3.78 (Max-40)	
Benzene	71-43-2	MS	23.5	0	20	117	80 - 124		
Benzene	71-43-2	MSD	22.3	0	20	111	80 - 124	RPD 5.22 (Max-26)	
Bromochloromethane	74-97-5	MS	23.4	0	20	117	73 - 117		
Bromochloromethane	74-97-5	MSD	22.5	0	20	113	73 - 117	RPD 3.88 (Max-19)	
Bromodichloromethane	75-27-4	MS	24.4	0	20	122	79 - 126		
Bromodichloromethane	75-27-4	MSD	23.9	0	20	119	79 - 126	RPD 2.08 (Max-16)	
Bromoform	75-25-2	MS	23.3	0	20	117	70 - 123		
Bromoform	75-25-2	MSD	22.1	0	20	111	70 - 123	RPD 5.28 (Max-16)	
Bromomethane	74-83-9	MS	16.1	0	20	80.5	45 - 148		
Bromomethane	74-83-9	MSD	15.9	0	20	79.5	45 - 148	RPD 1.33 (Max-26)	
Carbon Disulfide	75-15-0	MS	23.6	0	20	118	57 - 131		
Carbon Disulfide	75-15-0	MSD	23.1	0	20	116	57 - 131	RPD 1.79 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	21.8	0	20	109	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	20.1	0	20	100	62 - 132	RPD 8.22 (Max-17)	
Chlorobenzene	108-90-7	MS	23.3	0	20	116	85 - 117		
Chlorobenzene	108-90-7	MSD	21.4	0	20	107	85 - 117	RPD 8.42 (Max-15)	
Chlorodibromomethane	124-48-1	MS	21.4	0	20	107	77 - 122		
Chlorodibromomethane	124-48-1	MSD	20.2	0	20	101	77 - 122	RPD 6.16 (Max-15)	
Chloroethane	75-00-3	MS	23.1	0	20	116	51 - 142		
Chloroethane	75-00-3	MSD	23.7	0	20	119	51 - 142	RPD 2.50 (Max-24)	
Chloroform	67-66-3	MS	22.4	0	20	112	78 - 122		
Chloroform	67-66-3	MSD	21.7	0	20	108	78 - 122	RPD 3.45 (Max-16)	
Chloromethane	74-87-3	MS	22.4	0	20	112	38 - 156		
Chloromethane	74-87-3	MSD	21.9	0	20	109	38 - 156	RPD 2.21 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	24.8	0.74	20	120	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	23.9	0.74	20	116	78 - 125	RPD 3.81 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	21.6	0	20	108	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	20	0	20	100	81 - 121	RPD 7.81 (Max-16)	
Cyclohexane	110-82-7	MS	25.1	0	20	126	66 - 130		
Cyclohexane	110-82-7	MSD	24.3	0	20	121	66 - 130	RPD 3.50 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	23.2	0	20	116	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	22.4	0	20	112	17 - 166	RPD 3.68 (Max-24)	
Ethylbenzene	100-41-4	MS	24.1	0	20	121	80 - 124		
Ethylbenzene	100-41-4	MSD	22.4	0	20	112	80 - 124	RPD 7.36 (Max-19)	
Freon 113	76-13-1	MS	25.7	0	20	129	50 - 130		
Freon 113	76-13-1	MSD	24.7	0	20	124	50 - 130	RPD 4.06 (Max-26)	
Isopropylbenzene	98-82-8	MS	27.6	0	20	138*	73 - 129		
Isopropylbenzene	98-82-8	MSD	26.2	0	20	131*	73 - 129	RPD 4.98 (Max-18)	
Methyl acetate	79-20-9	MS	23.2	0	20	116	70 - 130		
Methyl acetate	79-20-9	MSD	21.8	0	20	109	70 - 130	RPD 6.20 (Max-18)	
Methyl cyclohexane	108-87-2	MS	25.5	0	20	128	70 - 130		
Methyl cyclohexane	108-87-2	MSD	23.8	0	20	119	70 - 130	RPD 7.04 (Max-18)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl t-Butyl Ether	1634-04-4	MS	24.2	0	20	121*	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	23.6	0	20	118*	69 - 115	RPD 2.73 (Max-20)	
Methylene Chloride	75-09-2	MS	23.5	0	20	118	76 - 121		
Methylene Chloride	75-09-2	MSD	22.5	0	20	112	76 - 121	RPD 4.55 (Max-17)	
mp-Xylene	108383/106423	MS	48	0	40	120	79 - 125		
mp-Xylene	108383/106423	MSD	44.5	0	40	111	79 - 125	RPD 7.64 (Max-21)	
o-Xylene	95-47-6	MS	23.9	0	20	119	79 - 124		
o-Xylene	95-47-6	MSD	22.3	0	20	112	79 - 124	RPD 6.61 (Max-19)	
Styrene	100-42-5	MS	21.4	0	20	107	79 - 123		
Styrene	100-42-5	MSD	20.3	0	20	101	79 - 123	RPD 5.44 (Max-16)	
Tetrachloroethene	127-18-4	MS	22.2	0	20	111	72 - 124		
Tetrachloroethene	127-18-4	MSD	20.6	0	20	103	72 - 124	RPD 7.53 (Max-38)	
Toluene	108-88-3	MS	24.4	0.29	20	120	80 - 125		
Toluene	108-88-3	MSD	22.5	0.29	20	111	80 - 125	RPD 8.04 (Max-20)	
Total Xylenes	1330-20-7	MS	71.9	0	60	120	79 - 125		
Total Xylenes	1330-20-7	MSD	66.8	0	60	111	79 - 125	RPD 7.30 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	23.9	0	20	119	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	22.6	0	20	113	71 - 122	RPD 5.33 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.9	0	20	109	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	20.2	0	20	101	78 - 126	RPD 8.05 (Max-18)	
Trichloroethene	79-01-6	MS	22.8	0	20	114	77 - 124		
Trichloroethene	79-01-6	MSD	21.9	0	20	110	77 - 124	RPD 3.97 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	25.2	0	20	126*	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	24.3	0	20	122	38 - 123	RPD 3.71 (Max-23)	
Vinyl Chloride	75-01-4	MS	25.6	0	20	128	27 - 138		
Vinyl Chloride	75-01-4	MSD	24.4	0	20	122	27 - 138	RPD 5.14 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	30.6	30	102	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	30	30	99.8	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	29.6	30	98.5	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	30.4	30	101	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.7	30	102	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	29.6	30	98.5	78 - 116	
Toluene-d8	2037-26-5	MS	30.7	30	102	76 - 127	
Toluene-d8	2037-26-5	MSD	29.7	30	98.9	76 - 127	

Method Blank 3911023 (MB) Created on 11/27/2024 10:07 For QC Batch 1345806

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.1	30	107	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	31	30	103	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	30.8	30	103	78 - 116	
Toluene-d8	2037-26-5	BLK	32.6	30	109	76 - 127	

Lab Control Standard 3911024 (LCS) Created on 11/27/2024 10:07 For QC Batch 1345806

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.6		20	108	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	23		20	115	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	22.1		20	111	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.8		20	104	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.7		20	108	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.2		20	111	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22.7		20	113	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.6		20	118	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22		20	110	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	22.7		20	114	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	21.8		20	109	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.4		20	107	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.1		20	101	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21.1		20	105	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.3		20	111	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.8		20	104	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.8		20	104	81 - 116		
2-Butanone	78-93-3	LCS	128		100	128	50 - 152		
2-Hexanone	591-78-6	LCS	120		100	120	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	113		100	113	71 - 146		
Acetone	67-64-1	LCS	143		100	143	40 - 151		
Benzene	71-43-2	LCS	20.6		20	103	80 - 124		
Bromochloromethane	74-97-5	LCS	21.9		20	109	73 - 117		
Bromodichloromethane	75-27-4	LCS	22.4		20	112	79 - 126		
Bromoform	75-25-2	LCS	21.1		20	106	70 - 123		
Bromomethane	74-83-9	LCS	14.9		20	74.7	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.4		20	107	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.5		20	97.6	62 - 132		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chlorobenzene	108-90-7	LCS	20.4		20	102	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.3		20	96.6	77 - 122		
Chloroethane	75-00-3	LCS	20		20	100	51 - 142		
Chloroform	67-66-3	LCS	20.1		20	101	78 - 122		
Chloromethane	74-87-3	LCS	20.5		20	102	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21.4		20	107	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.4		20	97	81 - 121		
Cyclohexane	110-82-7	LCS	22		20	110	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	20.7		20	104	17 - 166		
Ethylbenzene	100-41-4	LCS	21.1		20	105	80 - 124		
Freon 113	76-13-1	LCS	22.2		20	111	50 - 130		
Isopropylbenzene	98-82-8	LCS	24.5		20	123	73 - 129		
Methyl acetate	79-20-9	LCS	22.9		20	114	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22.1		20	111	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	22.3		20	111	69 - 115		
Methylene Chloride	75-09-2	LCS	21.1		20	106	76 - 121		
mp-Xylene	108383/106423	LCS	42		40	105	79 - 125		
o-Xylene	95-47-6	LCS	21		20	105	79 - 124		
Styrene	100-42-5	LCS	19.3		20	96.7	79 - 123		
Tetrachloroethene	127-18-4	LCS	20.6		20	103	72 - 124		
Toluene	108-88-3	LCS	21.1		20	106	80 - 125		
Total Xylenes	1330-20-7	LCS	63		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21		20	105	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.5		20	97.4	78 - 126		
Trichloroethene	79-01-6	LCS	19.9		20	99.5	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21.8		20	109	38 - 123		
Vinyl Chloride	75-01-4	LCS	22.6		20	113	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.5	30	98.3	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.2	30	97.2	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30	30	100	78 - 116	
Toluene-d8	2037-26-5	LCS	29.9	30	99.7	76 - 127	

QC Batch

QC Batch	1350876	Prep Method	SW846 5035A
Date	12/04/2024 13:24	Analysis Method	SW846 8260D
Tech.	JTH		

Associated Samples

3389084004 3389084005

Method Blank 3913452 (MB) Created on 12/04/2024 13:24 For QC Batch 1350876

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	50.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	50.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	50.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	100	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	100	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/kg	100	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	50.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	350	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	50.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	100	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	50.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/kg	50.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	50.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	50.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	500	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	250	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	250	ND
Acetone	67-64-1	BLK	ND	ug/kg	500	ND
Benzene	71-43-2	BLK	ND	ug/kg	50.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	50.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	50.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	50.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	50.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	50.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	50.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	50.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	50.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	50.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	50.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	50.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	50.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	50.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	50.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	50.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	50.0	ND
Freon 113	76-13-1	BLK	ND	ug/kg	50.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	50.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	100	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	50.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	50.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	50.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/kg	100	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Styrene	100-42-5	BLK	ND	ug/kg	50.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	50.0	ND
Toluene	108-88-3	BLK	ND	ug/kg	50.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	150	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	50.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	50.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	50.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	50.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	1510	1500	100	71 - 146	
4-Bromofluorobenzene	460-00-4	BLK	1470	1500	98	46 - 138	
Dibromofluoromethane	1868-53-7	BLK	1380	1500	92.2	42 - 143	
Toluene-d8	2037-26-5	BLK	1490	1500	99.1	54 - 141	

Lab Control Standard 3913453 (LCS) Created on 12/04/2024 13:24 For QC Batch 1350876

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	974		1000	97.4	69 - 136		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	1070		1000	107	69 - 125		
1,1,2-Trichloroethane	79-00-5	LCS	1030		1000	103	70 - 128		
1,1-Dichloroethane	75-34-3	LCS	931		1000	93.1	68 - 137		
1,1-Dichloroethene	75-35-4	LCS	880		1000	88	62 - 135		
1,2,3-Trichlorobenzene	87-61-6	LCS	1020		1000	102	41 - 143		
1,2,3-Trichloropropane	96-18-4	LCS	1030		1000	103	63 - 133		
1,2,4-Trichlorobenzene	120-82-1	LCS	1110		1000	111	61 - 134		
1,2,4-Trimethylbenzene	95-63-6	LCS	1100		1000	110	75 - 134		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	1050		1000	105	37 - 131		
1,2-Dibromoethane	106-93-4	LCS	1000		1000	100	69 - 130		
1,2-Dichlorobenzene	95-50-1	LCS	1030		1000	103	73 - 127		
1,2-Dichloroethane	107-06-2	LCS	938		1000	93.8	62 - 139		
1,2-Dichloroethene, Total	540-59-0	LCS	1910		2000	95.7	68 - 137		
1,2-Dichloropropane	78-87-5	LCS	984		1000	98.4	77 - 133		
1,3,5-Trimethylbenzene	108-67-8	LCS	1090		1000	109	74 - 137		
1,3-Dichlorobenzene	541-73-1	LCS	1030		1000	103	73 - 130		
1,4-Dichlorobenzene	106-46-7	LCS	1030		1000	103	74 - 127		
2-Butanone	78-93-3	LCS	4120		5000	82.4	51 - 151		
2-Hexanone	591-78-6	LCS	4840		5000	96.8	66 - 133		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	4600		5000	92.1	70 - 130		
Acetone	67-64-1	LCS	4710		5000	94.2	42 - 154		
Benzene	71-43-2	LCS	927		1000	92.7	77 - 134		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	995		1000	99.5	70 - 124		
Bromodichloromethane	75-27-4	LCS	1040		1000	104	73 - 133		
Bromoform	75-25-2	LCS	862		1000	86.2	62 - 118		
Bromomethane	74-83-9	LCS	831		1000	83.1	41 - 143		
Carbon Disulfide	75-15-0	LCS	732		1000	73.2	48 - 145		
Carbon Tetrachloride	56-23-5	LCS	829		1000	82.9	64 - 139		
Chlorobenzene	108-90-7	LCS	965		1000	96.5	76 - 130		
Chlorodibromomethane	124-48-1	LCS	998		1000	99.8	69 - 122		
Chloroethane	75-00-3	LCS	972		1000	97.2	14 - 152		
Chloroform	67-66-3	LCS	982		1000	98.2	75 - 127		
Chloromethane	74-87-3	LCS	1040		1000	104	31 - 167		
cis-1,2-Dichloroethene	156-59-2	LCS	980		1000	98	68 - 137		
cis-1,3-Dichloropropene	10061-01-5	LCS	975		1000	97.5	70 - 129		
Cyclohexane	110-82-7	LCS	915		1000	91.5	63 - 151		
Dichlorodifluoromethane	75-71-8	LCS	1030		1000	103	10 - 180		
Ethylbenzene	100-41-4	LCS	975		1000	97.5	76 - 136		
Freon 113	76-13-1	LCS	822		1000	82.2	42 - 109		
Isopropylbenzene	98-82-8	LCS	1190		1000	119	72 - 137		
Methyl acetate	79-20-9	LCS	983		1000	98.3	70 - 130		
Methyl cyclohexane	108-87-2	LCS	928		1000	92.8	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	982		1000	98.2	65 - 120		
Methylene Chloride	75-09-2	LCS	902		1000	90.2	73 - 129		
mp-Xylene	108383/106423	LCS	1980		2000	98.8	75 - 137		
o-Xylene	95-47-6	LCS	987		1000	98.7	74 - 135		
Styrene	100-42-5	LCS	1090		1000	109	72 - 134		
Tetrachloroethene	127-18-4	LCS	975		1000	97.5	73 - 134		
Toluene	108-88-3	LCS	985		1000	98.5	73 - 134		
Total Xylenes	1330-20-7	LCS	2960		3000	98.7	75 - 136		
trans-1,2-Dichloroethene	156-60-5	LCS	935		1000	93.5	69 - 130		
trans-1,3-Dichloropropene	10061-02-6	LCS	876		1000	87.6	67 - 129		
Trichloroethene	79-01-6	LCS	908		1000	90.8	77 - 134		
Trichlorofluoromethane	75-69-4	LCS	1030		1000	103	27 - 121		
Vinyl Chloride	75-01-4	LCS	999		1000	99.9	5 - 200		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	1490	1500	99.2	71 - 146	
4-Bromofluorobenzene	460-00-4	LCS	1450	1500	96.7	46 - 138	
Dibromofluoromethane	1868-53-7	LCS	1420	1500	94.5	42 - 143	
Toluene-d8	2037-26-5	LCS	1470	1500	98.3	54 - 141	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1338214	Prep Method	N/A
Date	N/A	Analysis Method	S2540G-15
Tech.			

Associated Samples

3389084005 3389084004

Duplicate 3909340 (DUP) 3388966002 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	5.4054	5.2845	RPD	2.26 (Max-10)	
Total Solids	TSP	DUP	94.5945	94.7154	RPD	0.13 (Max-5)	

Duplicate 3909341 (DUP) 3389019001 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	31.5980	35.0456	RPD	10.30* (Max-10)	
Total Solids	TSP	DUP	68.4019	64.9543	RPD	5.17* (Max-5)	

Duplicate 3909342 (DUP) 3388969002 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	74.2940	74.4324	RPD	0.19 (Max-10)	
Total Solids	TSP	DUP	25.7059	25.5675	RPD	0.54 (Max-5)	

Duplicate 3909343 (DUP) 3389029001 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	99.0253	99.0185	RPD 0.0070 (Max-10)	
Total Solids	TSP	DUP	0.9746	0.9814	RPD 0.70 (Max-5)	

Duplicate 3909344 (DUP) 3389030001 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	99.3991	99.3799	RPD 0.02 (Max-10)	
Total Solids	TSP	DUP	0.6008	0.62	RPD 3.15 (Max-5)	

Duplicate 3909345 (DUP) 3389075001 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	6.5298	6.9620	RPD 6.41 (Max-10)	
Total Solids	TSP	DUP	93.4701	93.0379	RPD 0.46 (Max-5)	

Duplicate 3909346 (DUP) 3389118001 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	1.0849	0	RPD 200* (Max-10)	
Total Solids	TSP	DUP	98.9150	100	RPD 1.09 (Max-5)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3389084001	EB-1	SW846 3015A	1340185	11/28/2024 01:45	ANN	SW846 6010C	1351313
		SW846 3015A	1340185	11/28/2024 01:45	ANN	SW846 6010C	1351152
		SW846 7470A	1348909	12/02/2024 10:06	AXW	SW846 7470A	1349007
		SW846 3510C	1345189	11/26/2024 22:00	J1H	SW846 8270E	1345947
		N/A	N/A	N/A		SW846 8260D	1345806
3389084002	FB-1	SW846 3015A	1340185	11/28/2024 01:45	ANN	SW846 6010C	1351152
		SW846 3015A	1340185	11/28/2024 01:45	ANN	SW846 6010C	1351313
		SW846 7470A	1348909	12/02/2024 10:06	AXW	SW846 7470A	1349007
		SW846 3510C	1345189	11/26/2024 22:00	J1H	SW846 8270E	1345947
		N/A	N/A	N/A		SW846 8260D	1345806
3389084003	EB-2	SW846 3015A	1340185	11/28/2024 01:45	ANN	SW846 6010C	1351313
		SW846 3015A	1340185	11/28/2024 01:45	ANN	SW846 6010C	1351152
		SW846 7470A	1348909	12/02/2024 10:06	AXW	SW846 7470A	1349007
		SW846 3510C	1345189	11/26/2024 22:00	J1H	SW846 8270E	1345947
		N/A	N/A	N/A		SW846 8260D	1345806
3389084004	MW-40-9	SW846 3051A	1348984	12/02/2024 14:00	NBU	SW846 6010C	1354637
		SW846 3051A	1348984	12/02/2024 14:00	NBU	SW846 6010C	1354763
		SW846 7471B	1350853	12/05/2024 08:22	AJN	SW846 7471B	1351300
		SW846 3546	1338201	11/24/2024 19:55	J1H	SW846 8270E	1345964
		SW846 3546	1338201	11/24/2024 19:55	J1H	SW846 8270E	1339795
		SW846 5035A	1350876	11/20/2024 10:15	JTH	SW846 8260D	1350878
		N/A	N/A	N/A		S2540G-15	1338214
3389084005	MW-41-8	SW846 3051A	1348984	12/02/2024 14:00	NBU	SW846 6010C	1354637
		SW846 3051A	1348984	12/02/2024 14:00	NBU	SW846 6010C	1354763
		SW846 7471B	1350853	12/05/2024 08:22	AJN	SW846 7471B	1351300
		SW846 3546	1338201	11/24/2024 19:55	J1H	SW846 8270E	1345964
		SW846 3546	1338201	11/24/2024 19:55	J1H	SW846 8270E	1339795
		SW846 5035A	1350876	11/20/2024 13:30	JTH	SW846 8260D	1350878
		N/A	N/A	N/A		S2540G-15	1338214
3389084006	TB-6	N/A	N/A	N/A		SW846 8260D	1345806

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3389084 Logged By: CXW PM: EXP

ALS Quote:) of

Client Name: Michael Baker Intl.

Address: 100 Airside Drive Moon Twp., PA

Contact: C. Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

Container Type	TCK	G	G	AG	G						
Container Size	3 40 ml	8 oz	3 40 ml	1 250 ml	2 125 ml						
Preservative	MeOH + DI	UNP	HCl	UNP	HNO3						

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	Enter Number of Containers Per Sample or Field Results Below. VOCs 8260D	SVOCs 8270E	Total Metals Hg 6010D / 7471B									
1	EB-1	11/19/24	0740		G	W	3	X	X	X	MJE							
2	FB-1	11/20/24	0700		G	W	3	X	X	X								
3	EB-2	11/20/24	0710		G	W	3	X	X	X	11/22/24							
4	MW-40-9	↓	1015		G	S	X	X	X									
5	MW-41-8	↓	1330		G	S	X	X	X									
6	TB-6	—	—		—	—	2											
7																		
8																		
9																		
10																		

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11/20/24	1800	1	Dave Gavaglia / MBI	2	FedEx
11/22/24	907	3	FedEx	4	
		5		6	
		7		8	
		9		10	

Temp Taken By: Therm ID: WO Temp (°C) W:3 S:5

Receipt Info completed by: MJE

Temp By:	WO Temp (°C)	Therm ID
MJE	W:3 S:5	569

Receipt Info Completed By: MJE

Cooler Custody Seal Intact	Y N (NA)
Sample Custody Seal Intact	Y N (NA)
Received on Ice	(Y) N NA
Cooler & Samples Intact	(Y) N
Correct Containers Provided	(Y) N
Sample Label/COC Agree	(Y) N
Adequate Sample Volumes	(Y) N
CR6 Samples Filtered	Y N (NA)
OP Samples Filtered	Y N (NA)
VOA Trip Blank	(Y) N NA
NJ ≤ 4 Days?	Y (N)
Rad Screen (uCi)	
Courier/Tracking #:	282064316438
SDWA Compliance	Y (N)
PWSID	
WV Containers 0-6°C	Y N (NA)

*No Sampler - MJE 11/22/24

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Both Soil Samples - MW-40-9 & MW-41-8 are considered "Hot"

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type:

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

Rev 07.06.2023

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

282064316435

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3389099
Report ID 374247 on 12/13/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 22, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3389099001	MW-45-10	Solid	11/21/2024 13:50	11/22/2024 09:07	CBC	Collected By Client
3389099002	TB-7	Ground Water	11/21/2024 13:50	11/22/2024 09:07	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
E	Result reported exceeds instrument calibration
1	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Di-n-Octylphthalate. The % Recovery was reported as 79 and the control limits were 80 to 120.
2	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Butylbenzylphthalate. The % Recovery was reported as 78 and the control limits were 80 to 120.
3	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Hexachlorocyclopentadiene. The % Recovery was reported as 77 and the control limits were 80 to 120.
4	The CCV recovery yielded -25.61%D (limits +/-20%D) for method SW846 8260D for the analyte Bromomethane.

Detected Results Summary

Client Sample ID	MW-45-10	Collected	11/21/2024 13:50
Lab Sample ID	3389099001	Lab Receipt	11/22/2024 09:07

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	3130	mg/kg	71.6	23.8	SW846 6010C	#
Barium, Total	271	mg/kg	7.2	2.4	SW846 6010C	#
Calcium, Total	8080	mg/kg	71.6	23.8	SW846 6010C	#
Chromium, Total	6.7J	mg/kg	7.2	2.4	SW846 6010C	#
Copper, Total	35.7	mg/kg	14.3	4.8	SW846 6010C	#
Iron, Total	11400	mg/kg	71.6	23.8	SW846 6010C	#
Lead, Total	376	mg/kg	14.3	4.8	SW846 6010C	#
Magnesium, Total	809	mg/kg	71.6	23.8	SW846 6010C	#
Manganese, Total	181	mg/kg	7.2	2.4	SW846 6010C	#
Mercury, Total	0.34	mg/kg	0.066	0.021	SW846 7471B	#
Nickel, Total	8.7J	mg/kg	14.3	4.8	SW846 6010C	#
Potassium, Total	629	mg/kg	358	120	SW846 6010C	#
Sodium, Total	176J	mg/kg	358	120	SW846 6010C	#
Vanadium, Total	6.9J	mg/kg	7.2	2.4	SW846 6010C	#
Zinc, Total	22.1	mg/kg	14.3	4.8	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	2300	ug/kg	1020	174	SW846 8270E	#
2-Methylnaphthalene	3190	ug/kg	510	86.8	SW846 8270E	#
Acenaphthene	229J	ug/kg	255	86.8	SW846 8270E	#
Acetophenone	27900	ug/kg	1280	217	SW846 8270E	#
Anthracene	806	ug/kg	255	86.8	SW846 8270E	#
Benzo(a)anthracene	1420	ug/kg	255	86.8	SW846 8270E	#
Benzo(a)pyrene	852	ug/kg	255	86.8	SW846 8270E	#
Benzo(b)fluoranthene	1360	ug/kg	255	86.8	SW846 8270E	#
Benzo(g,h,i)perylene	838	ug/kg	255	86.8	SW846 8270E	#
Benzo(k)fluoranthene	1140	ug/kg	255	86.8	SW846 8270E	#
Biphenyl	585	ug/kg	510	86.8	SW846 8270E	#
Carbazole	291J	ug/kg	510	86.8	SW846 8270E	#
Chrysene	1750	ug/kg	255	86.8	SW846 8270E	#
Dibenzofuran	1530	ug/kg	510	86.8	SW846 8270E	#
Fluoranthene	5230	ug/kg	255	86.8	SW846 8270E	#
Fluorene	15900	ug/kg	255	86.8	SW846 8270E	#
Hexachlorobutadiene	135J	ug/kg	510	86.8	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	655	ug/kg	255	86.8	SW846 8270E	#
mp-Cresol	2540	ug/kg	1020	174	SW846 8270E	#
Naphthalene	33800	ug/kg	638	217	SW846 8270E	#
o-Cresol	2380	ug/kg	1020	174	SW846 8270E	#
Phenanthrene	7280	ug/kg	255	86.8	SW846 8270E	#
Phenol	4570	ug/kg	1020	174	SW846 8270E	#
Pyrene	3550	ug/kg	255	86.8	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	31000	ug/kg	9110	2280	SW846 8260D	#
1,3,5-Trimethylbenzene	25300	ug/kg	9110	1820	SW846 8260D	#
Benzene	976000	ug/kg	9110	2100	SW846 8260D	#
Ethylbenzene	37400	ug/kg	9110	3100	SW846 8260D	#
Isopropylbenzene	3090J	ug/kg	9110	2010	SW846 8260D	#

Detected Results Summary

Sample - MW-45-10 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Methyl cyclohexane	12300	ug/kg	9110	2730	SW846 8260D	#
mp-Xylene	363000	ug/kg	18200	4740	SW846 8260D	#
o-Xylene	132000	ug/kg	9110	3010	SW846 8260D	#
Toluene	493000	ug/kg	9110	2100	SW846 8260D	#
Total Xylenes	496000	ug/kg	27300	6020	SW846 8260D	#
WET CHEMISTRY						
Moisture	31.3	%	0.1	0.01	S2540G-15	#
Total Solids	68.8	%	0.1	0.01	S2540G-15	#

Results

Client Sample ID	MW-45-10	Collected	11/21/2024 13:50
Lab Sample ID	3389099001	Lab Receipt	11/22/2024 09:07

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	3130		mg/kg	71.6	23.8	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Antimony, Total	ND	ND	mg/kg	14.3	4.8	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Arsenic, Total	ND	ND	mg/kg	14.3	4.8	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Barium, Total	271		mg/kg	7.2	2.4	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Beryllium, Total	ND	ND	mg/kg	7.2	2.4	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Cadmium, Total	ND	ND	mg/kg	3.6	1.2	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Calcium, Total	8080		mg/kg	71.6	23.8	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Chromium, Total	6.7J	J	mg/kg	7.2	2.4	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Cobalt, Total	ND	ND	mg/kg	7.2	2.4	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Copper, Total	35.7		mg/kg	14.3	4.8	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Iron, Total	11400		mg/kg	71.6	23.8	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Lead, Total	376		mg/kg	14.3	4.8	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Magnesium, Total	809		mg/kg	71.6	23.8	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Manganese, Total	181		mg/kg	7.2	2.4	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Mercury, Total	0.34		mg/kg	0.066	0.021	SW846 7471B	1	12/05/2024 12:41	AJN	B
Nickel, Total	8.7J	J	mg/kg	14.3	4.8	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Potassium, Total	629		mg/kg	358	120	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Selenium, Total	ND	ND	mg/kg	35.8	12.0	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Silver, Total	ND	ND	mg/kg	3.6	1.2	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Sodium, Total	176J	J	mg/kg	358	120	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Thallium, Total	ND	ND	mg/kg	21.5	7.2	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Vanadium, Total	6.9J	J	mg/kg	7.2	2.4	SW846 6010C	5	12/12/2024 12:50	MSY	B1
Zinc, Total	22.1		mg/kg	14.3	4.8	SW846 6010C	5	12/12/2024 12:50	MSY	B1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
1,4-Dioxane	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
2,3,4,6-Tetrachlorophenol	ND	ND	ug/kg	1020	174	SW846 8270E	4	11/25/2024 19:15	CGS	B
2,4,5-Trichlorophenol	ND	ND	ug/kg	1020	174	SW846 8270E	4	11/25/2024 19:15	CGS	B
2,4,6-Trichlorophenol	ND	ND	ug/kg	1020	174	SW846 8270E	4	11/25/2024 19:15	CGS	B
2,4-Dichlorophenol	ND	ND	ug/kg	1020	174	SW846 8270E	4	11/25/2024 19:15	CGS	B
2,4-Dimethylphenol	2300		ug/kg	1020	174	SW846 8270E	4	11/25/2024 19:15	CGS	B
2,4-Dinitrophenol	ND	ND	ug/kg	2040	1010	SW846 8270E	4	11/25/2024 19:15	CGS	B
2,4-Dinitrotoluene	ND	ND	ug/kg	510	102	SW846 8270E	4	11/25/2024 19:15	CGS	B
2,6-Dinitrotoluene	ND	ND	ug/kg	510	174	SW846 8270E	4	11/25/2024 19:15	CGS	B
2-Chloronaphthalene	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
2-Chlorophenol	ND	ND	ug/kg	1020	174	SW846 8270E	4	11/25/2024 19:15	CGS	B
2-Methyl-4,6-dinitrophenol	ND	ND	ug/kg	1020	255	SW846 8270E	4	11/25/2024 19:15	CGS	B
2-Methylnaphthalene	3190		ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
2-Nitroaniline	ND	ND	ug/kg	1020	117	SW846 8270E	4	11/25/2024 19:15	CGS	B
2-Nitrophenol	ND	ND	ug/kg	1020	174	SW846 8270E	4	11/25/2024 19:15	CGS	B
3,3-Dichlorobenzidine	ND	ND	ug/kg	1020	158	SW846 8270E	4	11/25/2024 19:15	CGS	B
3-Nitroaniline	ND	ND	ug/kg	1020	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
4-Bromophenyl-phenylether	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
4-Chloro-3-methylphenol	ND	ND	ug/kg	1020	174	SW846 8270E	4	11/25/2024 19:15	CGS	B

Results

Client Sample ID	MW-45-10	Collected	11/21/2024 13:50
Lab Sample ID	3389099001	Lab Receipt	11/22/2024 09:07

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4-Chloroaniline	ND	ND	ug/kg	1020	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
4-Chlorophenyl-phenylether	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
4-Nitroaniline	ND	ND	ug/kg	1020	148	SW846 8270E	4	11/25/2024 19:15	CGS	B
4-Nitrophenol	ND	ND	ug/kg	1020	174	SW846 8270E	4	11/25/2024 19:15	CGS	B
Acenaphthene	229J	J	ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Acenaphthylene	ND	ND	ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Acetophenone	27900		ug/kg	1280	217	SW846 8270E	10	11/26/2024 19:40	S7M	B
Anthracene	806		ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Atrazine	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Benzaldehyde	ND	ND	ug/kg	1020	102	SW846 8270E	4	11/25/2024 19:15	CGS	B
Benzo(a)anthracene	1420		ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Benzo(a)pyrene	852		ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Benzo(b)fluoranthene	1360		ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Benzo(g,h,i)perylene	838		ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Benzo(k)fluoranthene	1140		ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Biphenyl	585		ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
bis(2-Chloroethoxy)methane	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
bis(2-Chloroethyl)ether	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
bis(2-Chloroisopropyl)ether	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
bis(2-Ethylhexyl)phthalate	ND	ND,2	ug/kg	510	112	SW846 8270E	4	11/25/2024 19:15	CGS	B
Butylbenzylphthalate	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Caprolactam	ND	ND	ug/kg	1020	199	SW846 8270E	4	11/25/2024 19:15	CGS	B
Carbazole	291J	J	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Chrysene	1750		ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Dibenzo(a,h)anthracene	ND	ND	ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Dibenzofuran	1530		ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Diethylphthalate	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Dimethylphthalate	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Di-n-Butylphthalate	ND	ND	ug/kg	510	179	SW846 8270E	4	11/25/2024 19:15	CGS	B
Di-n-Octylphthalate	ND	ND,1	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Fluoranthene	5230		ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Fluorene	15900		ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Hexachlorobenzene	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Hexachlorobutadiene	135J	J	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Hexachlorocyclopentadiene	ND	ND,3	ug/kg	1020	153	SW846 8270E	4	11/25/2024 19:15	CGS	B
Hexachloroethane	ND	ND	ug/kg	510	117	SW846 8270E	4	11/25/2024 19:15	CGS	B
Indeno(1,2,3-cd)pyrene	655		ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Isophorone	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
mp-Cresol	2540		ug/kg	1020	174	SW846 8270E	4	11/25/2024 19:15	CGS	B
Naphthalene	33800	E	ug/kg	638	217	SW846 8270E	10	11/26/2024 19:40	S7M	B
Nitrobenzene	ND	ND	ug/kg	510	174	SW846 8270E	4	11/25/2024 19:15	CGS	B
N-Nitroso-di-n-propylamine	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
N-Nitrosodiphenylamine	ND	ND	ug/kg	510	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
o-Cresol	2380		ug/kg	1020	174	SW846 8270E	4	11/25/2024 19:15	CGS	B
Pentachlorophenol	ND	ND	ug/kg	1020	250	SW846 8270E	4	11/25/2024 19:15	CGS	B
Phenanthrene	7280		ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B
Phenol	4570		ug/kg	1020	174	SW846 8270E	4	11/25/2024 19:15	CGS	B

Results

Client Sample ID	MW-45-10	Collected	11/21/2024 13:50
Lab Sample ID	3389099001	Lab Receipt	11/22/2024 09:07

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Pyrene	3550		ug/kg	255	86.8	SW846 8270E	4	11/25/2024 19:15	CGS	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	60.2%	19 – 132	11/25/2024 19:15	
2,4,6-Tribromophenol	118-79-6	65.2%	19 – 132	11/26/2024 19:40	
2-Fluorobiphenyl	321-60-8	50.3%	40 – 110	11/25/2024 19:15	
2-Fluorobiphenyl	321-60-8	57%	40 – 110	11/26/2024 19:40	
2-Fluorophenol	367-12-4	52.3%	26 – 116	11/25/2024 19:15	
2-Fluorophenol	367-12-4	51.2%	26 – 116	11/26/2024 19:40	
Nitrobenzene-d5	4165-60-0	59.5%	38 – 112	11/25/2024 19:15	
Nitrobenzene-d5	4165-60-0	56.8%	38 – 112	11/26/2024 19:40	
Phenol-d5	4165-62-2	55%	35 – 111	11/25/2024 19:15	
Phenol-d5	4165-62-2	47.5%	35 – 111	11/26/2024 19:40	
Terphenyl-d14	98904-43-9	60.1%	45 – 126	11/25/2024 19:15	
Terphenyl-d14	98904-43-9	73%	45 – 126	11/26/2024 19:40	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/kg	9110	2010	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	9110	3100	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,1,2-Trichloroethane	ND	ND	ug/kg	9110	3010	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,1-Dichloroethane	ND	ND	ug/kg	9110	2550	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,1-Dichloroethene	ND	ND	ug/kg	9110	2640	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,2,3-Trichlorobenzene	ND	ND	ug/kg	18200	8480	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,2,3-Trichloropropane	ND	ND	ug/kg	18200	5470	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,2,4-Trichlorobenzene	ND	ND	ug/kg	18200	7470	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,2,4-Trimethylbenzene	31000		ug/kg	9110	2280	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,2-Dibromo-3-chloropropane	ND	ND	ug/kg	63800	13700	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,2-Dibromoethane	ND	ND	ug/kg	9110	2550	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,2-Dichlorobenzene	ND	ND	ug/kg	9110	3460	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,2-Dichloroethane	ND	ND	ug/kg	9110	2920	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,2-Dichloroethene, Total	ND	ND	ug/kg	18200	4100	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,2-Dichloropropane	ND	ND	ug/kg	9110	2190	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,3,5-Trimethylbenzene	25300		ug/kg	9110	1820	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,3-Dichlorobenzene	ND	ND	ug/kg	9110	2280	SW846 8260D	5000	12/04/2024 17:31	JTH	C
1,4-Dichlorobenzene	ND	ND	ug/kg	9110	2460	SW846 8260D	5000	12/04/2024 17:31	JTH	C
2-Butanone	ND	ND	ug/kg	91100	16400	SW846 8260D	5000	12/04/2024 17:31	JTH	C
2-Hexanone	ND	ND	ug/kg	45600	11800	SW846 8260D	5000	12/04/2024 17:31	JTH	C
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/kg	45600	13700	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Acetone	ND	ND	ug/kg	91100	28300	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Benzene	976000		ug/kg	9110	2100	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Bromochloromethane	ND	ND	ug/kg	9110	2920	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Bromodichloromethane	ND	ND	ug/kg	9110	2460	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Bromoform	ND	ND	ug/kg	9110	3650	SW846 8260D	5000	12/04/2024 17:31	JTH	C

Results

Client Sample ID	MW-45-10	Collected	11/21/2024 13:50
Lab Sample ID	3389099001	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Bromomethane	ND	ND	ug/kg	9110	3550	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Carbon Disulfide	ND	ND	ug/kg	9110	2100	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Carbon Tetrachloride	ND	ND	ug/kg	9110	2830	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Chlorobenzene	ND	ND	ug/kg	9110	1730	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Chlorodibromomethane	ND	ND	ug/kg	9110	4100	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Chloroethane	ND	ND	ug/kg	9110	3010	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Chloroform	ND	ND	ug/kg	9110	1910	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Chloromethane	ND	ND	ug/kg	9110	2830	SW846 8260D	5000	12/04/2024 17:31	JTH	C
cis-1,2-Dichloroethene	ND	ND	ug/kg	9110	2920	SW846 8260D	5000	12/04/2024 17:31	JTH	C
cis-1,3-Dichloropropene	ND	ND	ug/kg	9110	2830	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Cyclohexane	ND	ND	ug/kg	9110	2640	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Dichlorodifluoromethane	ND	ND	ug/kg	9110	3010	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Ethylbenzene	37400		ug/kg	9110	3100	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Freon 113	ND	ND	ug/kg	9110	2370	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Isopropylbenzene	3090J	J	ug/kg	9110	2010	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Methyl acetate	ND	ND	ug/kg	18200	2920	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Methyl cyclohexane	12300		ug/kg	9110	2730	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Methyl t-Butyl Ether	ND	ND	ug/kg	9110	3010	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Methylene Chloride	ND	ND	ug/kg	9110	4100	SW846 8260D	5000	12/04/2024 17:31	JTH	C
mp-Xylene	363000		ug/kg	18200	4740	SW846 8260D	5000	12/04/2024 17:31	JTH	C
o-Xylene	132000		ug/kg	9110	3010	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Styrene	ND	ND	ug/kg	9110	2190	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Tetrachloroethene	ND	ND	ug/kg	9110	3190	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Toluene	493000		ug/kg	9110	2100	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Total Xylenes	496000		ug/kg	27300	6020	SW846 8260D	5000	12/04/2024 17:31	JTH	C
trans-1,2-Dichloroethene	ND	ND	ug/kg	9110	2370	SW846 8260D	5000	12/04/2024 17:31	JTH	C
trans-1,3-Dichloropropene	ND	ND	ug/kg	9110	2640	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Trichloroethene	ND	ND	ug/kg	9110	3010	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Trichlorofluoromethane	ND	ND	ug/kg	9110	2190	SW846 8260D	5000	12/04/2024 17:31	JTH	C
Vinyl Chloride	ND	ND	ug/kg	9110	2730	SW846 8260D	5000	12/04/2024 17:31	JTH	C

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	71 – 146	12/04/2024 17:31	
4-Bromofluorobenzene	460-00-4	98.4%	46 – 138	12/04/2024 17:31	
Dibromofluoromethane	1868-53-7	90.8%	42 – 143	12/04/2024 17:31	
Toluene-d8	2037-26-5	98%	54 – 141	12/04/2024 17:31	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	31.3		%	0.1	0.01	S2540G-15	1	11/22/2024 20:43	LMD	B
Total Solids	68.8		%	0.1	0.01	S2540G-15	1	11/22/2024 20:43	LMD	B

Results

Client Sample ID	MW-45-10	Collected	11/21/2024 13:50
Lab Sample ID	3389099001	Lab Receipt	11/22/2024 09:07

WET CHEMISTRY (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	TB-7	Collected	11/21/2024 13:50
Lab Sample ID	3389099002	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	11/27/2024 14:14	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/27/2024 14:14	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	11/27/2024 14:14	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	11/27/2024 14:14	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	11/27/2024 14:14	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	11/27/2024 14:14	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 14:14	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 14:14	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	11/27/2024 14:14	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	11/27/2024 14:14	TMP	A
Bromomethane	ND	ND,4	ug/L	1.0	0.39	SW846 8260D	1	11/27/2024 14:14	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 14:14	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 14:14	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	11/27/2024 14:14	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/27/2024 14:14	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 14:14	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	11/27/2024 14:14	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 14:14	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	11/27/2024 14:14	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	11/27/2024 14:14	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 14:14	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 14:14	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	11/27/2024 14:14	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/27/2024 14:14	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	11/27/2024 14:14	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	11/27/2024 14:14	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/27/2024 14:14	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 14:14	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	11/27/2024 14:14	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	11/27/2024 14:14	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 14:14	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 14:14	TMP	A

Results

Client Sample ID	TB-7	Collected	11/21/2024 13:50
Lab Sample ID	3389099002	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	11/27/2024 14:14	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	11/27/2024 14:14	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	11/27/2024 14:14	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	11/27/2024 14:14	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	11/27/2024 14:14	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	11/27/2024 14:14	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	11/27/2024 14:14	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	11/27/2024 14:14	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	11/27/2024 14:14	
4-Bromofluorobenzene	460-00-4	106%	79 – 114	11/27/2024 14:14	
Dibromofluoromethane	1868-53-7	103%	78 – 116	11/27/2024 14:14	
Toluene-d8	2037-26-5	108%	76 – 127	11/27/2024 14:14	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3389099001	MW-45-10	SW846 6010C	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8270E	SW846 3546	
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
3389099002	TB-7	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1348984	Prep Method	SW846 3051A
Date	12/02/2024 14:00	Analysis Method	SW846 6010C
Tech.	NBU		

Associated Samples

3389099001

Matrix Spike 3912175 (MS1) 3389644001 (non-Project Sample) For QC Batch 1348984

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3912176 (MSD1) 3389644001 (non-Project Sample) For QC Batch 1348984

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Zinc, Total	7440-66-6	MS	531	428	99.80	NC	75 - 125		
Zinc, Total	7440-66-6	MSD	529	428	97.50	NC	75 - 125	RPD 0.29 (Max-20)	

Method Blank 3912172 (MB) Created on 12/02/2024 13:12 For QC Batch 1348984

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/kg	10.0	ND
Antimony, Total	7440-36-0	BLK	ND	mg/kg	2.0	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/kg	2.0	ND
Barium, Total	7440-39-3	BLK	ND	mg/kg	1.0	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/kg	1.0	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/kg	0.50	ND
Calcium, Total	7440-70-2	BLK	ND	mg/kg	10.0	ND
Chromium, Total	7440-47-3	BLK	0.51J	mg/kg	1.0	J
Cobalt, Total	7440-48-4	BLK	ND	mg/kg	1.0	ND
Copper, Total	7440-50-8	BLK	ND	mg/kg	2.0	ND
Iron, Total	7439-89-6	BLK	ND	mg/kg	10.0	ND
Lead, Total	7439-92-1	BLK	ND	mg/kg	2.0	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/kg	10.0	ND
Manganese, Total	7439-96-5	BLK	ND	mg/kg	1.0	ND
Nickel, Total	7440-02-0	BLK	ND	mg/kg	2.0	ND
Potassium, Total	7440-09-7	BLK	ND	mg/kg	50.0	ND
Selenium, Total	7782-49-2	BLK	ND	mg/kg	5.0	ND
Silver, Total	7440-22-4	BLK	ND	mg/kg	0.50	ND
Sodium, Total	7440-23-5	BLK	ND	mg/kg	50.0	ND
Thallium, Total	7440-28-0	BLK	ND	mg/kg	3.0	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/kg	1.0	ND
Zinc, Total	7440-66-6	BLK	1.1J	mg/kg	2.0	J

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3912173 (LCS1) Created on 12/02/2024 13:12 For QC Batch 1348984

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	102		100	102	80 - 120		
Antimony, Total	7440-36-0	LCS	40.3		40	101	80 - 120		
Arsenic, Total	7440-38-2	LCS	39.1		40	97.8	80 - 120		
Barium, Total	7440-39-3	LCS	104		100	104	80 - 120		
Beryllium, Total	7440-41-7	LCS	40.6		40	101	80 - 120		
Cadmium, Total	7440-43-9	LCS	20.5		20	102	80 - 120		
Calcium, Total	7440-70-2	LCS	517		500	103	80 - 120		
Chromium, Total	7440-47-3	LCS	21.1		20	105	80 - 120		
Cobalt, Total	7440-48-4	LCS	105		100	105	80 - 120		
Copper, Total	7440-50-8	LCS	101		100	101	80 - 120		
Iron, Total	7439-89-6	LCS	1030		1000	103	80 - 120		
Lead, Total	7439-92-1	LCS	103		100	103	80 - 120		
Magnesium, Total	7439-95-4	LCS	530		500	106	80 - 120		
Manganese, Total	7439-96-5	LCS	20.6		20	103	80 - 120		
Nickel, Total	7440-02-0	LCS	104		100	104	80 - 120		
Potassium, Total	7440-09-7	LCS	542		500	108	80 - 120		
Selenium, Total	7782-49-2	LCS	102		100	102	80 - 120		
Silver, Total	7440-22-4	LCS	20		20	99.8	80 - 120		
Sodium, Total	7440-23-5	LCS	534		500	107	80 - 120		
Thallium, Total	7440-28-0	LCS	102		100	102	80 - 120		
Vanadium, Total	7440-62-2	LCS	20.9		20	105	80 - 120		
Zinc, Total	7440-66-6	LCS	102		100	102	80 - 120		

QC Batch

QC Batch	1350853	Prep Method	SW846 7471B
Date	12/05/2024 08:22	Analysis Method	SW846 7471B
Tech.	AJN		

Associated Samples

3389099001

Matrix Spike 3913351 (MS) 3389452003 (non-Project Sample) For QC Batch 1350853

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3913352 (MSD) 3389452003 (non-Project Sample) For QC Batch 1350853

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.91	0.09	0.99	82.7	80 - 120		
Mercury, Total	7439-97-6	MSD	0.92	0.09	1	83	80 - 120	RPD 1.41 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3913353 (MS) 3389154004 (non-Project Sample) For QC Batch 1350853

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3913354 (MSD) 3389154004 (non-Project Sample) For QC Batch 1350853

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	1.6	0.44	0.99	121*	80 - 120		
Mercury, Total	7439-97-6	MSD	1.5	0.44	0.95	111	80 - 120	RPD 8.85 (Max-20)	

Method Blank 3913349 (MB) Created on 12/04/2024 12:26 For QC Batch 1350853

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/kg	0.050	ND

Lab Control Standard 3913350 (LCS) Created on 12/04/2024 12:26 For QC Batch 1350853

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.34		0.40	86	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1338201	Prep Method	SW846 3546
Date	11/24/2024 19:55	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3389099001

Method Blank 3909286 (MB) Created on 11/22/2024 16:36 For QC Batch 1338201

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4100	5000	81.9	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	2020	2500	80.8	40 - 110	
2-Fluorophenol	367-12-4	BLK	4160	5000	83.3	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	2100	2500	83.9	38 - 112	
Phenol-d5	4165-62-2	BLK	4350	5000	87.1	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2380	2500	95.3	45 - 126	

Lab Control Standard 3909287 (LCS) Created on 11/22/2024 16:36 For QC Batch 1338201

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1950		2500	77.9	51 - 102		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS	1750		2500	69.8	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	3490		5000	69.7	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4270		5000	85.4	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4170		5000	83.4	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4380		5000	87.6	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	4500		5000	90	59 - 133		
2,4-Dinitrophenol	51-28-5	LCS	4270		5000	85.5	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2350		2500	93.9	62 - 115		
2,6-Dinitrotoluene	606-20-2	LCS	2290		2500	91.6	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	2120		2500	84.9	59 - 104		
2-Chlorophenol	95-57-8	LCS	4560		5000	91.2	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4540		5000	90.7	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	1990		2500	79.6	59 - 108		
2-Nitroaniline	88-74-4	LCS	2350		2500	94.1	60 - 115		
2-Nitrophenol	88-75-5	LCS	4560		5000	91.3	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3200		5000	64	25 - 104		
3-Nitroaniline	99-09-2	LCS	2480		2500	99.1	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	1920		2500	76.7	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	4290		5000	85.7	59 - 115		
4-Chloroaniline	106-47-8	LCS	2330		2500	93.4	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	1980		2500	79.2	59 - 107		
4-Nitroaniline	100-01-6	LCS	2480		2500	99.1	49 - 121		
4-Nitrophenol	100-02-7	LCS	4950		5000	99.1	53 - 124		
Acenaphthene	83-32-9	LCS	2120		2500	84.7	61 - 105		
Acenaphthylene	208-96-8	LCS	1870		2500	74.8	63 - 106		
Acetophenone	98-86-2	LCS	1900		2500	76	33 - 98		
Anthracene	120-12-7	LCS	2200		2500	88	60 - 107		
Atrazine	1912-24-9	LCS	2060		2500	82.5	62 - 116		
Benzaldehyde	100-52-7	LCS	2100		2500	83.9	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2220		2500	88.8	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2250		2500	90	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2190		2500	87.4	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	2660		2500	106	57 - 119		
Benzo(k)fluoranthene	207-08-9	LCS	2210		2500	88.4	63 - 116		
Biphenyl	92-52-4	LCS	1950		2500	77.9	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	2080		2500	83.1	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	2070		2500	82.6	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	1830		2500	73.2	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	1480		2500	59.1	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	1720		2500	68.8	58 - 125		
Caprolactam	105-60-2	LCS	2660		2500	107	51 - 119		
Carbazole	86-74-8	LCS	2320		2500	93	66 - 117		
Chrysene	218-01-9	LCS	2330		2500	93.1	65 - 113		
Dibenzo(a,h)anthracene	53-70-3	LCS	2410		2500	96.5	59 - 116		
Dibenzofuran	132-64-9	LCS	2080		2500	83.3	62 - 106		
Diethylphthalate	84-66-2	LCS	1950		2500	78	59 - 112		
Dimethylphthalate	131-11-3	LCS	2030		2500	81.3	60 - 111		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Di-n-Butylphthalate	84-74-2	LCS	1810		2500	72.4	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	1500		2500	60	47 - 134		
Fluoranthene	206-44-0	LCS	2230		2500	89.1	61 - 114		
Fluorene	86-73-7	LCS	2090		2500	83.6	62 - 107		
Hexachlorobenzene	118-74-1	LCS	2050		2500	81.9	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2120		2500	84.9	56 - 127		
Hexachlorocyclopentadiene	77-47-4	LCS	1180		2500	47.3	20 - 124		
Hexachloroethane	67-72-1	LCS	1890		2500	75.6	57 - 101		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	2360		2500	94.5	53 - 118		
Isophorone	78-59-1	LCS	1950		2500	78	41 - 101		
mp-Cresol	108394/106445	LCS	4310		5000	86.3	60 - 109		
Naphthalene	91-20-3	LCS	2100		2500	83.8	60 - 102		
Nitrobenzene	98-95-3	LCS	2170		2500	86.9	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	1970		2500	78.9	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2460		2500	98.4	73 - 129		
o-Cresol	95-48-7	LCS	4180		5000	83.6	61 - 108		
Pentachlorophenol	87-86-5	LCS	2990		5000	59.8	46 - 138		
Phenanthrene	85-01-8	LCS	2170		2500	87	61 - 106		
Phenol	108-95-2	LCS	4420		5000	88.5	57 - 110		
Pyrene	129-00-0	LCS	2170		2500	86.9	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	4280	5000	85.7	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	1970	2500	78.8	40 - 110	
2-Fluorophenol	367-12-4	LCS	4340	5000	86.8	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2150	2500	86.1	38 - 112	
Phenol-d5	4165-62-2	LCS	4440	5000	88.9	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2230	2500	89.3	45 - 126	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1345806	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3389099002

Matrix Spike 3911315 (MS) 3388588011 (non-Project Sample) For QC Batch 1345806

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911316 (MSD) 3388588011 (non-Project Sample) For QC Batch 1345806

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	24.5	0	20	122	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	23.8	0	20	119	66 - 130	RPD 2.60 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	26.7	0	20	133	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	25.5	0	20	128	74 - 135	RPD 4.33 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	25	0	20	125	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	22.9	0	20	115	82 - 126	RPD 8.55 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	23.5	0	20	118	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	22.6	0	20	113	78 - 124	RPD 4.16 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	24.6	0	20	123	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	24.1	0	20	120	63 - 128	RPD 1.98 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	24.4	0	20	122	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	23.1	0	20	115	61 - 126	RPD 5.63 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	25.7	0	20	128	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	24.5	0	20	122	75 - 132	RPD 4.76 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	25.7	0	20	128*	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	24.8	0	20	124*	67 - 123	RPD 3.70 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	25.2	0	20	126*	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	23.7	0	20	118	76 - 125	RPD 6.11 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	25.7	0	20	128	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	24.6	0	20	123	59 - 133	RPD 4.17 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	25.4	0	20	127*	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	23.7	0	20	118	80 - 124	RPD 6.86 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	23.6	0	20	118	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	22.5	0	20	113	82 - 118	RPD 4.45 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	22.4	0	20	112	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	21.5	0	20	107	70 - 133	RPD 3.92 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	23.7	0	20	118	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	22.7	0	20	114	81 - 127	RPD 4.04 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	25.5	0	20	127*	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	23.9	0	20	120	76 - 125	RPD 6.24 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	23.2	0	20	116	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	22.1	0	20	111	81 - 118	RPD 4.68 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	23.2	0	20	116	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	22.1	0	20	111	81 - 116	RPD 4.96 (Max-15)	
2-Butanone	78-93-3	MS	123	0	100	123	50 - 152		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Butanone	78-93-3	MSD	114	0	100	114	50 - 152	RPD 7.37 (Max-16)	
2-Hexanone	591-78-6	MS	131	0	100	131	65 - 154		
2-Hexanone	591-78-6	MSD	122	0	100	122	65 - 154	RPD 7.75 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	134	0	100	134	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	124	0	100	124	71 - 146	RPD 7.39 (Max-16)	
Acetone	67-64-1	MS	112	0	100	112	40 - 151		
Acetone	67-64-1	MSD	108	0	100	108	40 - 151	RPD 3.78 (Max-40)	
Benzene	71-43-2	MS	23.5	0	20	117	80 - 124		
Benzene	71-43-2	MSD	22.3	0	20	111	80 - 124	RPD 5.22 (Max-26)	
Bromochloromethane	74-97-5	MS	23.4	0	20	117	73 - 117		
Bromochloromethane	74-97-5	MSD	22.5	0	20	113	73 - 117	RPD 3.88 (Max-19)	
Bromodichloromethane	75-27-4	MS	24.4	0	20	122	79 - 126		
Bromodichloromethane	75-27-4	MSD	23.9	0	20	119	79 - 126	RPD 2.08 (Max-16)	
Bromoform	75-25-2	MS	23.3	0	20	117	70 - 123		
Bromoform	75-25-2	MSD	22.1	0	20	111	70 - 123	RPD 5.28 (Max-16)	
Bromomethane	74-83-9	MS	16.1	0	20	80.5	45 - 148		
Bromomethane	74-83-9	MSD	15.9	0	20	79.5	45 - 148	RPD 1.33 (Max-26)	
Carbon Disulfide	75-15-0	MS	23.6	0	20	118	57 - 131		
Carbon Disulfide	75-15-0	MSD	23.1	0	20	116	57 - 131	RPD 1.79 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	21.8	0	20	109	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	20.1	0	20	100	62 - 132	RPD 8.22 (Max-17)	
Chlorobenzene	108-90-7	MS	23.3	0	20	116	85 - 117		
Chlorobenzene	108-90-7	MSD	21.4	0	20	107	85 - 117	RPD 8.42 (Max-15)	
Chlorodibromomethane	124-48-1	MS	21.4	0	20	107	77 - 122		
Chlorodibromomethane	124-48-1	MSD	20.2	0	20	101	77 - 122	RPD 6.16 (Max-15)	
Chloroethane	75-00-3	MS	23.1	0	20	116	51 - 142		
Chloroethane	75-00-3	MSD	23.7	0	20	119	51 - 142	RPD 2.50 (Max-24)	
Chloroform	67-66-3	MS	22.4	0	20	112	78 - 122		
Chloroform	67-66-3	MSD	21.7	0	20	108	78 - 122	RPD 3.45 (Max-16)	
Chloromethane	74-87-3	MS	22.4	0	20	112	38 - 156		
Chloromethane	74-87-3	MSD	21.9	0	20	109	38 - 156	RPD 2.21 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	24.8	0.74	20	120	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	23.9	0.74	20	116	78 - 125	RPD 3.81 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	21.6	0	20	108	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	20	0	20	100	81 - 121	RPD 7.81 (Max-16)	
Cyclohexane	110-82-7	MS	25.1	0	20	126	66 - 130		
Cyclohexane	110-82-7	MSD	24.3	0	20	121	66 - 130	RPD 3.50 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	23.2	0	20	116	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	22.4	0	20	112	17 - 166	RPD 3.68 (Max-24)	
Ethylbenzene	100-41-4	MS	24.1	0	20	121	80 - 124		
Ethylbenzene	100-41-4	MSD	22.4	0	20	112	80 - 124	RPD 7.36 (Max-19)	
Freon 113	76-13-1	MS	25.7	0	20	129	50 - 130		
Freon 113	76-13-1	MSD	24.7	0	20	124	50 - 130	RPD 4.06 (Max-26)	
Isopropylbenzene	98-82-8	MS	27.6	0	20	138*	73 - 129		
Isopropylbenzene	98-82-8	MSD	26.2	0	20	131*	73 - 129	RPD 4.98 (Max-18)	
Methyl acetate	79-20-9	MS	23.2	0	20	116	70 - 130		
Methyl acetate	79-20-9	MSD	21.8	0	20	109	70 - 130	RPD 6.20 (Max-18)	
Methyl cyclohexane	108-87-2	MS	25.5	0	20	128	70 - 130		
Methyl cyclohexane	108-87-2	MSD	23.8	0	20	119	70 - 130	RPD 7.04 (Max-18)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl t-Butyl Ether	1634-04-4	MS	24.2	0	20	121*	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	23.6	0	20	118*	69 - 115	RPD 2.73 (Max-20)	
Methylene Chloride	75-09-2	MS	23.5	0	20	118	76 - 121		
Methylene Chloride	75-09-2	MSD	22.5	0	20	112	76 - 121	RPD 4.55 (Max-17)	
mp-Xylene	108383/106423	MS	48	0	40	120	79 - 125		
mp-Xylene	108383/106423	MSD	44.5	0	40	111	79 - 125	RPD 7.64 (Max-21)	
o-Xylene	95-47-6	MS	23.9	0	20	119	79 - 124		
o-Xylene	95-47-6	MSD	22.3	0	20	112	79 - 124	RPD 6.61 (Max-19)	
Styrene	100-42-5	MS	21.4	0	20	107	79 - 123		
Styrene	100-42-5	MSD	20.3	0	20	101	79 - 123	RPD 5.44 (Max-16)	
Tetrachloroethene	127-18-4	MS	22.2	0	20	111	72 - 124		
Tetrachloroethene	127-18-4	MSD	20.6	0	20	103	72 - 124	RPD 7.53 (Max-38)	
Toluene	108-88-3	MS	24.4	0.29	20	120	80 - 125		
Toluene	108-88-3	MSD	22.5	0.29	20	111	80 - 125	RPD 8.04 (Max-20)	
Total Xylenes	1330-20-7	MS	71.9	0	60	120	79 - 125		
Total Xylenes	1330-20-7	MSD	66.8	0	60	111	79 - 125	RPD 7.30 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	23.9	0	20	119	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	22.6	0	20	113	71 - 122	RPD 5.33 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.9	0	20	109	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	20.2	0	20	101	78 - 126	RPD 8.05 (Max-18)	
Trichloroethene	79-01-6	MS	22.8	0	20	114	77 - 124		
Trichloroethene	79-01-6	MSD	21.9	0	20	110	77 - 124	RPD 3.97 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	25.2	0	20	126*	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	24.3	0	20	122	38 - 123	RPD 3.71 (Max-23)	
Vinyl Chloride	75-01-4	MS	25.6	0	20	128	27 - 138		
Vinyl Chloride	75-01-4	MSD	24.4	0	20	122	27 - 138	RPD 5.14 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	30.6	30	102	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	30	30	99.8	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	29.6	30	98.5	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	30.4	30	101	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.7	30	102	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	29.6	30	98.5	78 - 116	
Toluene-d8	2037-26-5	MS	30.7	30	102	76 - 127	
Toluene-d8	2037-26-5	MSD	29.7	30	98.9	76 - 127	

Method Blank 3911023 (MB) Created on 11/27/2024 10:07 For QC Batch 1345806

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.1	30	107	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	31	30	103	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	30.8	30	103	78 - 116	
Toluene-d8	2037-26-5	BLK	32.6	30	109	76 - 127	

Lab Control Standard 3911024 (LCS) Created on 11/27/2024 10:07 For QC Batch 1345806

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.6		20	108	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	23		20	115	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	22.1		20	111	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.8		20	104	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.7		20	108	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.2		20	111	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22.7		20	113	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.6		20	118	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22		20	110	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	22.7		20	114	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	21.8		20	109	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.4		20	107	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.1		20	101	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21.1		20	105	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.3		20	111	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.8		20	104	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.8		20	104	81 - 116		
2-Butanone	78-93-3	LCS	128		100	128	50 - 152		
2-Hexanone	591-78-6	LCS	120		100	120	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	113		100	113	71 - 146		
Acetone	67-64-1	LCS	143		100	143	40 - 151		
Benzene	71-43-2	LCS	20.6		20	103	80 - 124		
Bromochloromethane	74-97-5	LCS	21.9		20	109	73 - 117		
Bromodichloromethane	75-27-4	LCS	22.4		20	112	79 - 126		
Bromoform	75-25-2	LCS	21.1		20	106	70 - 123		
Bromomethane	74-83-9	LCS	14.9		20	74.7	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.4		20	107	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.5		20	97.6	62 - 132		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chlorobenzene	108-90-7	LCS	20.4		20	102	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.3		20	96.6	77 - 122		
Chloroethane	75-00-3	LCS	20		20	100	51 - 142		
Chloroform	67-66-3	LCS	20.1		20	101	78 - 122		
Chloromethane	74-87-3	LCS	20.5		20	102	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21.4		20	107	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.4		20	97	81 - 121		
Cyclohexane	110-82-7	LCS	22		20	110	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	20.7		20	104	17 - 166		
Ethylbenzene	100-41-4	LCS	21.1		20	105	80 - 124		
Freon 113	76-13-1	LCS	22.2		20	111	50 - 130		
Isopropylbenzene	98-82-8	LCS	24.5		20	123	73 - 129		
Methyl acetate	79-20-9	LCS	22.9		20	114	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22.1		20	111	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	22.3		20	111	69 - 115		
Methylene Chloride	75-09-2	LCS	21.1		20	106	76 - 121		
mp-Xylene	108383/106423	LCS	42		40	105	79 - 125		
o-Xylene	95-47-6	LCS	21		20	105	79 - 124		
Styrene	100-42-5	LCS	19.3		20	96.7	79 - 123		
Tetrachloroethene	127-18-4	LCS	20.6		20	103	72 - 124		
Toluene	108-88-3	LCS	21.1		20	106	80 - 125		
Total Xylenes	1330-20-7	LCS	63		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21		20	105	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.5		20	97.4	78 - 126		
Trichloroethene	79-01-6	LCS	19.9		20	99.5	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21.8		20	109	38 - 123		
Vinyl Chloride	75-01-4	LCS	22.6		20	113	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.5	30	98.3	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.2	30	97.2	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30	30	100	78 - 116	
Toluene-d8	2037-26-5	LCS	29.9	30	99.7	76 - 127	

QC Batch

QC Batch	1350876	Prep Method	SW846 5035A
Date	12/04/2024 13:24	Analysis Method	SW846 8260D
Tech.	JTH		

Associated Samples

3389099001

Method Blank 3913452 (MB) Created on 12/04/2024 13:24 For QC Batch 1350876

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	50.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	50.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	50.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	100	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	100	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/kg	100	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	50.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	350	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	50.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	100	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	50.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/kg	50.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	50.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	50.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	500	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	250	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	250	ND
Acetone	67-64-1	BLK	ND	ug/kg	500	ND
Benzene	71-43-2	BLK	ND	ug/kg	50.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	50.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	50.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	50.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	50.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	50.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	50.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	50.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	50.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	50.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	50.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	50.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	50.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	50.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	50.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	50.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	50.0	ND
Freon 113	76-13-1	BLK	ND	ug/kg	50.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	50.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	100	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	50.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	50.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	50.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/kg	100	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	50.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Styrene	100-42-5	BLK	ND	ug/kg	50.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	50.0	ND
Toluene	108-88-3	BLK	ND	ug/kg	50.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	150	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	50.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	50.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	50.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	50.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	1510	1500	100	71 - 146	
4-Bromofluorobenzene	460-00-4	BLK	1470	1500	98	46 - 138	
Dibromofluoromethane	1868-53-7	BLK	1380	1500	92.2	42 - 143	
Toluene-d8	2037-26-5	BLK	1490	1500	99.1	54 - 141	

Lab Control Standard 3913453 (LCS) Created on 12/04/2024 13:24 For QC Batch 1350876

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	974		1000	97.4	69 - 136		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	1070		1000	107	69 - 125		
1,1,2-Trichloroethane	79-00-5	LCS	1030		1000	103	70 - 128		
1,1-Dichloroethane	75-34-3	LCS	931		1000	93.1	68 - 137		
1,1-Dichloroethene	75-35-4	LCS	880		1000	88	62 - 135		
1,2,3-Trichlorobenzene	87-61-6	LCS	1020		1000	102	41 - 143		
1,2,3-Trichloropropane	96-18-4	LCS	1030		1000	103	63 - 133		
1,2,4-Trichlorobenzene	120-82-1	LCS	1110		1000	111	61 - 134		
1,2,4-Trimethylbenzene	95-63-6	LCS	1100		1000	110	75 - 134		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	1050		1000	105	37 - 131		
1,2-Dibromoethane	106-93-4	LCS	1000		1000	100	69 - 130		
1,2-Dichlorobenzene	95-50-1	LCS	1030		1000	103	73 - 127		
1,2-Dichloroethane	107-06-2	LCS	938		1000	93.8	62 - 139		
1,2-Dichloroethene, Total	540-59-0	LCS	1910		2000	95.7	68 - 137		
1,2-Dichloropropane	78-87-5	LCS	984		1000	98.4	77 - 133		
1,3,5-Trimethylbenzene	108-67-8	LCS	1090		1000	109	74 - 137		
1,3-Dichlorobenzene	541-73-1	LCS	1030		1000	103	73 - 130		
1,4-Dichlorobenzene	106-46-7	LCS	1030		1000	103	74 - 127		
2-Butanone	78-93-3	LCS	4120		5000	82.4	51 - 151		
2-Hexanone	591-78-6	LCS	4840		5000	96.8	66 - 133		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	4600		5000	92.1	70 - 130		
Acetone	67-64-1	LCS	4710		5000	94.2	42 - 154		
Benzene	71-43-2	LCS	927		1000	92.7	77 - 134		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	995		1000	99.5	70 - 124		
Bromodichloromethane	75-27-4	LCS	1040		1000	104	73 - 133		
Bromoform	75-25-2	LCS	862		1000	86.2	62 - 118		
Bromomethane	74-83-9	LCS	831		1000	83.1	41 - 143		
Carbon Disulfide	75-15-0	LCS	732		1000	73.2	48 - 145		
Carbon Tetrachloride	56-23-5	LCS	829		1000	82.9	64 - 139		
Chlorobenzene	108-90-7	LCS	965		1000	96.5	76 - 130		
Chlorodibromomethane	124-48-1	LCS	998		1000	99.8	69 - 122		
Chloroethane	75-00-3	LCS	972		1000	97.2	14 - 152		
Chloroform	67-66-3	LCS	982		1000	98.2	75 - 127		
Chloromethane	74-87-3	LCS	1040		1000	104	31 - 167		
cis-1,2-Dichloroethene	156-59-2	LCS	980		1000	98	68 - 137		
cis-1,3-Dichloropropene	10061-01-5	LCS	975		1000	97.5	70 - 129		
Cyclohexane	110-82-7	LCS	915		1000	91.5	63 - 151		
Dichlorodifluoromethane	75-71-8	LCS	1030		1000	103	10 - 180		
Ethylbenzene	100-41-4	LCS	975		1000	97.5	76 - 136		
Freon 113	76-13-1	LCS	822		1000	82.2	42 - 109		
Isopropylbenzene	98-82-8	LCS	1190		1000	119	72 - 137		
Methyl acetate	79-20-9	LCS	983		1000	98.3	70 - 130		
Methyl cyclohexane	108-87-2	LCS	928		1000	92.8	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	982		1000	98.2	65 - 120		
Methylene Chloride	75-09-2	LCS	902		1000	90.2	73 - 129		
mp-Xylene	108383/106423	LCS	1980		2000	98.8	75 - 137		
o-Xylene	95-47-6	LCS	987		1000	98.7	74 - 135		
Styrene	100-42-5	LCS	1090		1000	109	72 - 134		
Tetrachloroethene	127-18-4	LCS	975		1000	97.5	73 - 134		
Toluene	108-88-3	LCS	985		1000	98.5	73 - 134		
Total Xylenes	1330-20-7	LCS	2960		3000	98.7	75 - 136		
trans-1,2-Dichloroethene	156-60-5	LCS	935		1000	93.5	69 - 130		
trans-1,3-Dichloropropene	10061-02-6	LCS	876		1000	87.6	67 - 129		
Trichloroethene	79-01-6	LCS	908		1000	90.8	77 - 134		
Trichlorofluoromethane	75-69-4	LCS	1030		1000	103	27 - 121		
Vinyl Chloride	75-01-4	LCS	999		1000	99.9	5 - 200		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	1490	1500	99.2	71 - 146	
4-Bromofluorobenzene	460-00-4	LCS	1450	1500	96.7	46 - 138	
Dibromofluoromethane	1868-53-7	LCS	1420	1500	94.5	42 - 143	
Toluene-d8	2037-26-5	LCS	1470	1500	98.3	54 - 141	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1338214	Prep Method	N/A
Date	N/A	Analysis Method	S2540G-15
Tech.			

Associated Samples

3389099001

Duplicate 3909340 (DUP) 3388966002 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	5.4054	5.2845	RPD	2.26 (Max-10)	
Total Solids	TSP	DUP	94.5945	94.7154	RPD	0.13 (Max-5)	

Duplicate 3909341 (DUP) 3389019001 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	31.5980	35.0456	RPD	10.30* (Max-10)	
Total Solids	TSP	DUP	68.4019	64.9543	RPD	5.17* (Max-5)	

Duplicate 3909342 (DUP) 3388969002 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Moisture	MOISTURE	DUP	74.2940	74.4324	RPD	0.19 (Max-10)	
Total Solids	TSP	DUP	25.7059	25.5675	RPD	0.54 (Max-5)	

Duplicate 3909343 (DUP) 3389029001 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	99.0253	99.0185	RPD 0.0070 (Max-10)	
Total Solids	TSP	DUP	0.9746	0.9814	RPD 0.70 (Max-5)	

Duplicate 3909344 (DUP) 3389030001 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	99.3991	99.3799	RPD 0.02 (Max-10)	
Total Solids	TSP	DUP	0.6008	0.62	RPD 3.15 (Max-5)	

Duplicate 3909345 (DUP) 3389075001 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	6.5298	6.9620	RPD 6.41 (Max-10)	
Total Solids	TSP	DUP	93.4701	93.0379	RPD 0.46 (Max-5)	

Duplicate 3909346 (DUP) 3389118001 (non-Project Sample) For QC Batch 1338214

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	1.0849	0	RPD 200* (Max-10)	
Total Solids	TSP	DUP	98.9150	100	RPD 1.09 (Max-5)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3389099001	MW-45-10	SW846 3051A	1348984	12/02/2024 14:00	NBU	SW846 6010C	1354637
		SW846 7471B	1350853	12/05/2024 08:22	AJN	SW846 7471B	1351300
		SW846 3546	1338201	11/24/2024 19:55	J1H	SW846 8270E	1339795
		SW846 3546	1338201	11/24/2024 19:55	J1H	SW846 8270E	1345964
		SW846 5035A	1350876	11/21/2024 13:50	JTH	SW846 8260D	1350878
		N/A	N/A	N/A		S2540G-15	1338214
3389099002	TB-7	N/A	N/A	N/A		SW846 8260D	1345806

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3389099 Logged By: CXW PM: EXP

ALS Quote #:

1 of

Client Name: Michael Baker Intl.

Address: 100 Airside Drive Moon Twp, PA

Contact: C. Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

Temp Taken By: MJE Therm ID: 569 WO Temp (°C) S:3 W:2

Receipt Info Completed By: MJE

Cooler Custody Seal Intact Y N (NA)

Sample Custody Seal Intact Y N (NA)

Received on Ice (Y) N NA

Cooler & Samples Intact (Y) N

Correct Containers Provided (Y) N

Sample Label/COC Agree (Y) N

Adequate Sample Volumes (Y) N

CR6 Samples Filtered Y N (NA)

OP Samples Filtered Y N (NA)

VOA Trip Blank (Y) N NA

NJ ≤ 4 Days? Y (N)

Rad Screen (uCi): —

Courier/Tracking #: 282113301507

SDWA Compliance Y (N)

PWSID

WV Containers 0-6°C Y N (NA)

PWS Contact: *No Sampler-MJE 11/22/24

	Container Type	Container Size	Preservative
1	TCK	3 40 ml	methanol
2	G	8 oz	UNP
3	G	16 oz	UNP
4	G	500 ml	UNP
5	G	3 40 ml	HCl
6	P	125 ml	HNO_3
7	G	1L	UNP
8			MJE 11/22/24

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260D	SVOCs 8270E	Total Metals + Hg 6010D/7471B	SVOC/MET/ECLP RIC/PF	TCLP TVS/SGRA PCBs	RIC/PF	PCBs
1	MW-45-10	11/21/24	1350		G	S	X	X	X		MJE	11/22/24	
2	TB-7	—	—		—	—	X						
3	IDW-S	11/2/24	1645		G	S	X			X	X		
4	IDW-W	↓	1700		G	W	X	X	X			X	X
5													
6													
7													
8													
9													
10													

Enter Number of Containers Per Sample or Field Results Below.

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Sample MW-45-10 is considered "Hot"

IDW-W-Limited Volume

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11/21/24	1800	1	Dave Gavinlig / MBJ	2	Fedex
11/22/24	907	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

282113301507

Groundwater

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke Works 188511-3020
Workorder 3391293
Report ID 380046 on 1/9/2025 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 10, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3391293001	MW-39	Ground Water	12/09/2024 12:00	12/10/2024 09:02	CBC	Collected By Client
3391293002	MW-40	Ground Water	12/09/2024 13:40	12/10/2024 09:02	CBC	Collected By Client
3391293003	MW-40-DUP	Ground Water	12/09/2024 13:45	12/10/2024 09:02	CBC	Collected By Client
3391293004	MW-41	Ground Water	12/09/2024 12:42	12/10/2024 09:02	CBC	Collected By Client
3391293005	MW-43	Ground Water	12/09/2024 11:40	12/10/2024 09:02	CBC	Collected By Client
3391293006	MW-44	Ground Water	12/09/2024 15:45	12/10/2024 09:02	CBC	Collected By Client
3391293007	TB-40	Ground Water	12/09/2024 00:00	12/10/2024 09:02	CBC	Collected By Client
3391293008	MW-22D	Ground Water	12/09/2024 16:45	12/10/2024 09:02	CBC	Collected By Client
3391293009	MW-22S	Ground Water	12/09/2024 16:45	12/10/2024 09:02	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
E	Result reported exceeds instrument calibration
1	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 26.2 and the control limits were 41 to 145. This result was reported at a dilution of 1.
2	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Di-n-Octylphthalate. The % Recovery was reported as 122 and the control limits were 80 to 120.
3	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
4	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
5	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
6	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 35.7 and the control limits were 41 to 145. This result was reported at a dilution of 1.
7	The surrogate 2-Fluorophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 10 to 85. This result was reported at a dilution of 50.
8	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 41 to 145. This result was reported at a dilution of 50.
9	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 27.5 and the control limits were 41 to 145. This result was reported at a dilution of 1.
10	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
11	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 32.1 and the control limits were 41 to 145. This result was reported at a dilution of 1.
12	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 34.8 and the control limits were 41 to 145. This result was reported at a dilution of 1.

Detected Results Summary

Client Sample ID	MW-39	Collected	12/09/2024 12:00
Lab Sample ID	3391293001	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.65	mg/L	0.11	0.036	SW846 6010C	#
Antimony, Total	0.012J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.062	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.043	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.26	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.29	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	163	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	131	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0059	mg/L	0.0056	0.0020	SW846 6010C	#
Cobalt, Total	0.0040J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0059J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	21.0	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	23.3	mg/L	0.067	0.022	SW846 6010C	#
Lead, Total	0.0030J	mg/L	0.0067	0.0022	SW846 6010C	#
Magnesium, Dissolved	55.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	56.2	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.6	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.5	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	44.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	49.8	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	155	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	123	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	1.3J	ug/L	3.0	0.50	SW846 8270E	#
Acenaphthene	3.1	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	0.94J	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	3.8	ug/L	3.0	0.90	SW846 8270E	#
Anthracene	0.62J	ug/L	1.5	0.25	SW846 8270E	#
Carbazole	2.7J	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	1.3J	ug/L	3.0	0.25	SW846 8270E	#
Di-n-Butylphthalate	1.1J	ug/L	3.0	0.37	SW846 8270E	#
Fluoranthene	0.54J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	3.4	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	7.6	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	4.2	ug/L	1.5	0.25	SW846 8270E	#
Pyrene	0.30J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	9.5	ug/L	1.0	0.23	SW846 8260D	#
o-Xylene	0.54J	ug/L	1.0	0.33	SW846 8260D	#
Toluene	0.26J	ug/L	1.0	0.23	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	8	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	748	mg/L	50	50	SM2320B-2011	#
Chloride	143	mg/L	5.0	2.2	SW846 9056A	#
pH	8.13	pH_Units			S4500HB-11	#

Detected Results Summary

Sample - MW-39 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Specific Conductance	1740	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	40.7	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	878	mg/L	25	25	SM2540C-15	#
Turbidity	230	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-40	Collected	12/09/2024 13:40
Lab Sample ID	3391293002	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.043J	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.0040J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.21	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.21	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	138	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	132	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0064	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0074	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	10.5	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	10.6	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	118	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	117	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.2	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.2	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	51.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	50.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	82.8	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	81.7	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	116	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	81.5	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	41.4	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	83.3	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	12.2	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	0.72J	ug/L	1.5	0.28	SW846 8270E	#
Biphenyl	11.6	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	92.3	ug/L	3.0	0.25	SW846 8270E	#
Chrysene	0.37J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	47.3	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	15.6	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	71.1	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	136	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	2120	ug/L	30.0	13.0	SW846 8270E	#
o-Cresol	150	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	95.9	ug/L	1.5	0.25	SW846 8270E	#
Phenol	84.2	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	9.3	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	18.0J	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	10.4J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	1510	ug/L	50.0	11.5	SW846 8260D	#
mp-Xylene	41.8J	ug/L	100	26.0	SW846 8260D	#
o-Xylene	19.1J	ug/L	50.0	16.5	SW846 8260D	#
Styrene	13.4J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	95.6	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	60.9J	ug/L	150	33.0	SW846 8260D	#

Detected Results Summary

Sample - MW-40 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Acidity, Total	5	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	1230	mg/L	50	50	SM2320B-2011	#
Chloride	69.3	mg/L	5.0	2.2	SW846 9056A	#
pH	8.05	pH_Units			S4500HB-11	#
Specific Conductance	1810	umhos/cm	50	1	SW846 9050A	#
Sulfate	34.4	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1090	mg/L	25	25	SM2540C-15	#
Turbidity	55	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-40-DUP	Collected	12/09/2024 13:45
Lab Sample ID	3391293003	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.043J	mg/L	0.11	0.036	SW846 6010C	#
Antimony, Total	0.0089J	mg/L	0.022	0.0073	SW846 6010C	#
Barium, Dissolved	0.21	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.21	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	139	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	132	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.013	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0090	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	10.6	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	10.5	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	118	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	118	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.2	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.2	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	51.2	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	50.7	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	82.7	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	81.6	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	114	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	76.5	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	40.7	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	82.7	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	11.9	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	0.71J	ug/L	1.5	0.28	SW846 8270E	#
Biphenyl	11.2	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	90.1	ug/L	3.0	0.25	SW846 8270E	#
Chrysene	0.46J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	47.8	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	15.6	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	71.8	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	146	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	2080	ug/L	30.0	13.0	SW846 8270E	#
o-Cresol	151	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	94.8	ug/L	1.5	0.25	SW846 8270E	#
Phenol	96.2	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	9.4	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	17.9J	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	10.5J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	1540	ug/L	50.0	11.5	SW846 8260D	#
mp-Xylene	42.8J	ug/L	100	26.0	SW846 8260D	#
o-Xylene	19.7J	ug/L	50.0	16.5	SW846 8260D	#
Styrene	12.6J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	94.3	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	62.5J	ug/L	150	33.0	SW846 8260D	#

Detected Results Summary

Sample - MW-40-DUP (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Acidity, Total	33	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	1230	mg/L	50	50	SM2320B-2011	#
Chloride	69.6	mg/L	5.0	2.2	SW846 9056A	#
pH	8.04	pH_Units			S4500HB-11	#
Specific Conductance	2550	umhos/cm	50	1	SW846 9050A	#
Sulfate	33.3	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1100	mg/L	25	25	SM2540C-15	#
Turbidity	55	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-41	Collected	12/09/2024 12:42
Lab Sample ID	3391293004	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.075J	mg/L	0.11	0.036	SW846 6010C	#
Barium, Dissolved	0.20	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.20	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	99.6	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	93.1	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0071	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0059	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	8.0	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	7.9	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	165	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	163	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.4	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.4	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	40.9	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	39.7	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	30.4	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	29.4	mg/L	0.56	0.18	SW846 6010C	#
Thallium, Dissolved	0.011J	mg/L	0.022	0.0073	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	117	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	205	ug/L	75.0	12.5	SW846 8270E	#
Acenaphthene	159	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	6.6	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	6.3	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	20.6	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	94.2	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	58.9	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	7.4	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	59.5	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	29.5	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	11300	ug/L	75.0	32.5	SW846 8270E	#
o-Cresol	17.1	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	64.2	ug/L	1.5	0.25	SW846 8270E	#
Phenol	43.7	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	4.1	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	83.9	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	14.1J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	27100	ug/L	1000	230	SW846 8260D	#
Ethylbenzene	230	ug/L	50.0	17.0	SW846 8260D	#
Isopropylbenzene	12.8J	ug/L	50.0	11.0	SW846 8260D	#
mp-Xylene	118	ug/L	100	26.0	SW846 8260D	#
o-Xylene	97.1	ug/L	50.0	16.5	SW846 8260D	#
Toluene	152	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	215	ug/L	150	33.0	SW846 8260D	#

Detected Results Summary

Sample - MW-41 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Alkalinity, Total	1100	mg/L	50	50	SM2320B-2011	#
Chloride	15.4	mg/L	5.0	2.2	SW846 9056A	#
pH	8.02	pH_Units			S4500HB-11	#
Specific Conductance	1810	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	9.4	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	978	mg/L	25	25	SM2540C-15	#
Turbidity	28	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-43	Collected	12/09/2024 11:40
Lab Sample ID	3391293005	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.31	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.31	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	147	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	142	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0066	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	5.8	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	6.0	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	41.8	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	41.9	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.47	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.49	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	21.3	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	21.4	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	29.1	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	29.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Naphthalene	0.75J	ug/L	1.5	0.65	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	6	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	617	mg/L	50	50	SM2320B-2011	#
Chloride	26.0	mg/L	5.0	2.2	SW846 9056A	#
pH	8.18	pH_Units			S4500HB-11	#
Specific Conductance	1090	umhos/cm	5	0.1	SW846 9050A	#
Total Dissolved Solids	582	mg/L	25	25	SM2540C-15	#
Turbidity	70	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-44	Collected	12/09/2024 15:45
Lab Sample ID	3391293006	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.27	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.0031J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.24	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.24	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	185	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	177	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0049J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0068	mg/L	0.0056	0.0020	SW846 6010C	#
Cobalt, Total	0.0029J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0037J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	28.9	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	29.9	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	113	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	114	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.89	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.92	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	40.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	40.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	38.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	38.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	0.27J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	5.1	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	0.33J	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	3.0J	ug/L	3.0	0.90	SW846 8270E	#
Anthracene	0.52J	ug/L	1.5	0.25	SW846 8270E	#
Carbazole	0.74J	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	0.66J	ug/L	3.0	0.25	SW846 8270E	#
Di-n-Butylphthalate	0.71J	ug/L	3.0	0.37	SW846 8270E	#
Fluoranthene	0.87J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	2.2	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	2.5	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	3.1	ug/L	1.5	0.25	SW846 8270E	#
Pyrene	0.54J	ug/L	1.5	0.25	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	62	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	1160	mg/L	50	50	SM2320B-2011	#
Chloride	41.4	mg/L	5.0	2.2	SW846 9056A	#
pH	8.02	pH_Units			S4500HB-11	#
Specific Conductance	2070	umhos/cm	5	0.1	SW846 9050A	#
Total Dissolved Solids	1000	mg/L	25	25	SM2540C-15	#
Turbidity	200	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-22D	Collected	12/09/2024 16:45
Lab Sample ID	3391293008	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.31	mg/L	0.11	0.036	SW846 6010C	#
Antimony, Total	0.0079J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.0034J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.016	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.023	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	41.2	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	40.3	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0032J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.041J	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.49	mg/L	0.067	0.022	SW846 6010C	#
Lead, Total	0.0057J	mg/L	0.0067	0.0022	SW846 6010C	#
Magnesium, Dissolved	4.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	4.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.012	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.030	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	5.8	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	6.0	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.0077J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	75.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	75.4	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Di-n-Butylphthalate	0.92J	ug/L	3.0	0.37	SW846 8270E	#
Fluoranthene	0.41J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	2.2	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	0.54J	ug/L	1.5	0.25	SW846 8270E	#
Pyrene	0.28J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	0.38J	ug/L	1.0	0.23	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	80	mg/L	5	5	SM2320B-2011	#
Chloride	16.1	mg/L	2.0	0.88	SW846 9056A	#
Nitrate-N	1.4	mg/L	1.0	0.32	SW846 9056A	#
pH	8.20	pH_Units			S4500HB-11	#
Specific Conductance	592	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	173	mg/L	2.0	1.4	SW846 9056A	#
Total Dissolved Solids	326	mg/L	25	25	SM2540C-15	#
Turbidity	50	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-22S	Collected	12/09/2024 16:45
Lab Sample ID	3391293009	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.038J	mg/L	0.11	0.036	SW846 6010C	#
Antimony, Total	0.0076J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.0072J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.010	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.025	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.025	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	110	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	106	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.17	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.24	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	33.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	32.3	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.043	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.043	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	9.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	9.7	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0081J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.011J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	181	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	182	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	33.0	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	1.5	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	1.0J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	1.9	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	0.90J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	10.2	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	1.4J	ug/L	3.0	0.25	SW846 8270E	#
Fluorene	0.87J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	411	ug/L	6.0	2.6	SW846 8270E	#
o-Cresol	11.5	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	0.67J	ug/L	1.5	0.25	SW846 8270E	#
Phenol	8.0	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	7.0J	ug/L	10.0	2.5	SW846 8260D	#
1,3,5-Trimethylbenzene	2.9J	ug/L	10.0	2.0	SW846 8260D	#
Benzene	885	ug/L	10.0	2.3	SW846 8260D	#
Carbon Disulfide	2.8J	ug/L	10.0	2.3	SW846 8260D	#
Ethylbenzene	10.2	ug/L	10.0	3.4	SW846 8260D	#
mp-Xylene	12.4J	ug/L	20.0	5.2	SW846 8260D	#
o-Xylene	19.4	ug/L	10.0	3.3	SW846 8260D	#
Styrene	5.8J	ug/L	10.0	2.4	SW846 8260D	#
Toluene	5.8J	ug/L	10.0	2.3	SW846 8260D	#
Total Xylenes	31.8	ug/L	30.0	6.6	SW846 8260D	#

Detected Results Summary

Sample - MW-22S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Alkalinity, Total	106	mg/L	5	5	SM2320B-2011	#
Chloride	92.2	mg/L	2.0	0.88	SW846 9056A	#
Nitrate-N	0.39J	mg/L	1.0	0.32	SW846 9056A	#
pH	8.46	pH_Units			S4500HB-11	#
Specific Conductance	2090	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	611	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1060	mg/L	25	25	SM2540C-15	#
Turbidity	12	NTU	0.30	0.30	SM2130B-2011	#

Results

Client Sample ID	MW-39	Collected	12/09/2024 12:00
Lab Sample ID	3391293001	Lab Receipt	12/10/2024 09:02

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Aluminum, Total	0.65		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Antimony, Total	0.012J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Arsenic, Dissolved	0.062		mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Arsenic, Total	0.043		mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Barium, Dissolved	0.26		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Barium, Total	0.29		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Calcium, Dissolved	163		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Calcium, Total	131		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Chromium, Total	0.0059		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Cobalt, Total	0.0040J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Copper, Total	0.0059J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Iron, Dissolved	21.0		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Iron, Total	23.3		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Lead, Total	0.0030J	J	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Magnesium, Dissolved	55.6		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Magnesium, Total	56.2		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Manganese, Dissolved	1.6		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Manganese, Total	1.5		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:16	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:25	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Potassium, Dissolved	44.1		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Potassium, Total	49.8		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Sodium, Dissolved	155		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Sodium, Total	123		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:45	MSY	E2

Results

Client Sample ID	MW-39	Collected	12/09/2024 12:00
Lab Sample ID	3391293001	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,4-Dimethylphenol	1.3J	J	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 02:30	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 02:30	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 02:30	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:30	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 02:30	M1O	D
Acenaphthene	3.1		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Acenaphthylene	0.94J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Acetophenone	3.8		ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 02:30	M1O	D
Anthracene	0.62J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 02:30	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 02:30	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 02:30	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 02:30	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 02:30	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:30	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 02:30	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 02:30	M1O	D
Carbazole	2.7J	J	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D

Results

Client Sample ID	MW-39	Collected	12/09/2024 12:00
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 02:30	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 02:30	M1O	D
Dibenzofuran	1.3J	J	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Di-n-Butylphthalate	1.1J	J	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 02:30	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Fluoranthene	0.54J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Fluorene	3.4		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 02:30	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 02:30	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 02:30	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 02:30	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
Naphthalene	7.6		ug/L	1.5	0.65	SW846 8270E	1	12/12/2024 02:30	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 02:30	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 02:30	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 02:30	M1O	D
Phenanthrene	4.2		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
Pyrene	0.30J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	53.6%	23 – 131	12/12/2024 02:30	
2-Fluorobiphenyl	321-60-8	49.5%	24 – 116	12/12/2024 02:30	
2-Fluorophenol	367-12-4	29.2%	10 – 85	12/12/2024 02:30	
Nitrobenzene-d5	4165-60-0	56.1%	32 – 125	12/12/2024 02:30	
Phenol-d5	4165-62-2	25.7%	7 – 56	12/12/2024 02:30	
Terphenyl-d14	98904-43-9	26.2*%	41 – 145	12/12/2024 02:30	1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/17/2024 01:08	PDK	B

Results

Client Sample ID	MW-39	Collected	12/09/2024 12:00
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 01:08	PDK	B
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/17/2024 01:08	PDK	B
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/17/2024 01:08	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/17/2024 01:08	PDK	B
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/17/2024 01:08	PDK	B
Benzene	9.5		ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:08	PDK	B
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:08	PDK	B
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 01:08	PDK	B
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/17/2024 01:08	PDK	B
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/17/2024 01:08	PDK	B
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:08	PDK	B
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:08	PDK	B
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/17/2024 01:08	PDK	B
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 01:08	PDK	B
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:08	PDK	B
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/17/2024 01:08	PDK	B
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:08	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:08	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:08	PDK	B
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:08	PDK	B
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:08	PDK	B
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 01:08	PDK	B
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 01:08	PDK	B
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 01:08	PDK	B
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/17/2024 01:08	PDK	B
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 01:08	PDK	B
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:08	PDK	B
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 01:08	PDK	B
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/17/2024 01:08	PDK	B
o-Xylene	0.54J	J	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:08	PDK	B
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:08	PDK	B
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/17/2024 01:08	PDK	B
Toluene	0.26J	J	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:08	PDK	B
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/17/2024 01:08	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 01:08	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:08	PDK	B
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:08	PDK	B
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:08	PDK	B
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 01:08	PDK	B

Results

Client Sample ID	MW-39	Collected	12/09/2024 12:00
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/17/2024 01:08	
4-Bromofluorobenzene	460-00-4	99.6%	79 – 114	12/17/2024 01:08	
Dibromofluoromethane	1868-53-7	97%	78 – 116	12/17/2024 01:08	
Toluene-d8	2037-26-5	98.1%	76 – 127	12/17/2024 01:08	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	8	3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	748	4	mg/L	50	50	SM2320B-2011	10	12/16/2024 06:08	KMV	I
Chloride	143		mg/L	5.0	2.2	SW846 9056A	5	12/10/2024 17:37	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/10/2024 17:37	J1W	I
pH	8.13	5	pH_Units			S4500HB-11	1	12/12/2024 16:28	KMV	I
Specific Conductance	1740		umhos/cm	5	0.1	SW846 9050A	1	12/10/2024 17:34	LMD	I
Sulfate	40.7		mg/L	5.0	3.5	SW846 9056A	5	12/10/2024 17:37	J1W	I
Total Dissolved Solids	878		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	230		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	MW-40	Collected	12/09/2024 13:40
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Aluminum, Total	0.043J	J	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Arsenic, Dissolved	0.0040J	J	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Barium, Dissolved	0.21		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Barium, Total	0.21		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Calcium, Dissolved	138		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Calcium, Total	132		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Chromium, Dissolved	0.0064		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Chromium, Total	0.0074		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Iron, Dissolved	10.5		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Iron, Total	10.6		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Magnesium, Dissolved	118		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Magnesium, Total	117		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Manganese, Dissolved	1.2		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Manganese, Total	1.2		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:20	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:31	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Potassium, Dissolved	51.1		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Potassium, Total	50.6		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Sodium, Dissolved	82.8		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Sodium, Total	81.7		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/17/2024 12:21	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:46	MSY	E2

Results

Client Sample ID	MW-40	Collected	12/09/2024 13:40
Lab Sample ID	3391293002	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,4-Dimethylphenol	116		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 03:19	M1O	D
2-Methylnaphthalene	81.5		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 03:19	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 03:19	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 03:19	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 03:19	M1O	D
Acenaphthene	41.4		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Acenaphthylene	83.3		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 03:19	M1O	D
Anthracene	12.2		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Benzo(a)anthracene	0.72J	J	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 03:19	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 03:19	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 03:19	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 03:19	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 03:19	M1O	D
Biphenyl	11.6		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 03:19	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 03:19	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 03:19	M1O	D
Carbazole	92.3		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D

Results

Client Sample ID	MW-40	Collected	12/09/2024 13:40
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.37J	J	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 03:19	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 03:19	M1O	D
Dibenzofuran	47.3		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 03:19	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Fluoranthene	15.6		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Fluorene	71.1		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 03:19	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 03:19	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 03:19	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 03:19	M1O	D
mp-Cresol	136		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
Naphthalene	2120		ug/L	30.0	13.0	SW846 8270E	20	12/13/2024 02:02	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 03:19	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 03:19	M1O	D
o-Cresol	150		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 03:19	M1O	D
Phenanthrene	95.9		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Phenol	84.2		ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
Pyrene	9.3		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	66.2%	23 – 131	12/12/2024 03:19	
2,4,6-Tribromophenol	118-79-6	76.9%	23 – 131	12/13/2024 02:02	
2-Fluorobiphenyl	321-60-8	76.1%	24 – 116	12/12/2024 03:19	
2-Fluorobiphenyl	321-60-8	96%	24 – 116	12/13/2024 02:02	
2-Fluorophenol	367-12-4	36.5%	10 – 85	12/12/2024 03:19	
2-Fluorophenol	367-12-4	38.8%	10 – 85	12/13/2024 02:02	
Nitrobenzene-d5	4165-60-0	85.7%	32 – 125	12/12/2024 03:19	
Nitrobenzene-d5	4165-60-0	90.2%	32 – 125	12/13/2024 02:02	
Phenol-d5	4165-62-2	32.9%	7 – 56	12/12/2024 03:19	
Phenol-d5	4165-62-2	36.9%	7 – 56	12/13/2024 02:02	
Terphenyl-d14	98904-43-9	35.7*%	41 – 145	12/12/2024 03:19	6
Terphenyl-d14	98904-43-9	48.1%	41 – 145	12/13/2024 02:02	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/13/2024 02:50	BST	A

Results

Client Sample ID	MW-40	Collected	12/09/2024 13:40
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 02:50	BST	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2,4-Trimethylbenzene	18.0J	J	ug/L	50.0	12.5	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,3,5-Trimethylbenzene	10.4J	J	ug/L	50.0	10.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/13/2024 02:50	BST	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/13/2024 02:50	BST	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/13/2024 02:50	BST	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/13/2024 02:50	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/13/2024 02:50	BST	A
Benzene	1510		ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 02:50	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 02:50	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Ethylbenzene	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/13/2024 02:50	BST	A
mp-Xylene	41.8J	J	ug/L	100	26.0	SW846 8260D	50	12/13/2024 02:50	BST	A
o-Xylene	19.1J	J	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Styrene	13.4J	J	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Toluene	95.6		ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 02:50	BST	A

Results

Client Sample ID	MW-40	Collected	12/09/2024 13:40
Lab Sample ID	3391293002	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	60.9J	J	ug/L	150	33.0	SW846 8260D	50	12/13/2024 02:50	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/13/2024 02:50	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/13/2024 02:50	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/13/2024 02:50	
4-Bromofluorobenzene	460-00-4	99.2%	79 – 114	12/13/2024 02:50	
Dibromofluoromethane	1868-53-7	97.2%	78 – 116	12/13/2024 02:50	
Toluene-d8	2037-26-5	99.8%	76 – 127	12/13/2024 02:50	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	5	3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	1230	4	mg/L	50	50	SM2320B-2011	10	12/16/2024 06:31	KMV	I
Chloride	69.3		mg/L	5.0	2.2	SW846 9056A	5	12/10/2024 17:48	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/10/2024 17:48	J1W	I
pH	8.05	5	pH_Units			S4500HB-11	1	12/12/2024 17:40	KMV	I
Specific Conductance	1810		umhos/cm	50	1	SW846 9050A	10	12/10/2024 17:34	LMD	I
Sulfate	34.4		mg/L	5.0	3.5	SW846 9056A	5	12/10/2024 17:48	J1W	I
Total Dissolved Solids	1090		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	55		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	MW-40-DUP	Collected	12/09/2024 13:45
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Aluminum, Total	0.043J	J	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Antimony, Total	0.0089J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Barium, Dissolved	0.21		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Barium, Total	0.21		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Calcium, Dissolved	139		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Calcium, Total	132		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Chromium, Dissolved	0.013		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Chromium, Total	0.0090		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Iron, Dissolved	10.6		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Iron, Total	10.5		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Magnesium, Dissolved	118		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Magnesium, Total	118		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Manganese, Dissolved	1.2		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Manganese, Total	1.2		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:13	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:28	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Potassium, Dissolved	51.2		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Potassium, Total	50.7		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Sodium, Dissolved	82.7		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Sodium, Total	81.6		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/17/2024 12:27	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:47	MSY	E2

Results

Client Sample ID	MW-40-DUP	Collected	12/09/2024 13:45
Lab Sample ID	3391293003	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,4-Dimethylphenol	114		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 03:43	M1O	D
2-Methylnaphthalene	76.5		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 03:43	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 03:43	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 03:43	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 03:43	M1O	D
Acenaphthene	40.7		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Acenaphthylene	82.7		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 03:43	M1O	D
Anthracene	11.9		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Benzo(a)anthracene	0.71J	J	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 03:43	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 03:43	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 03:43	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 03:43	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 03:43	M1O	D
Biphenyl	11.2		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 03:43	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 03:43	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 03:43	M1O	D
Carbazole	90.1		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D

Results

Client Sample ID	MW-40-DUP	Collected	12/09/2024 13:45
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.46J	J	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 03:43	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 03:43	M1O	D
Dibenzofuran	47.8		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 03:43	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Fluoranthene	15.6		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Fluorene	71.8		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 03:43	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 03:43	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 03:43	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 03:43	M1O	D
mp-Cresol	146		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
Naphthalene	2080		ug/L	30.0	13.0	SW846 8270E	20	12/13/2024 02:27	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 03:43	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 03:43	M1O	D
o-Cresol	151		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 03:43	M1O	D
Phenanthrene	94.8		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Phenol	96.2		ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
Pyrene	9.4		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	78.8%	23 – 131	12/12/2024 03:43	
2,4,6-Tribromophenol	118-79-6	92.4%	23 – 131	12/13/2024 02:27	
2-Fluorobiphenyl	321-60-8	71.2%	24 – 116	12/12/2024 03:43	
2-Fluorobiphenyl	321-60-8	92.3%	24 – 116	12/13/2024 02:27	
2-Fluorophenol	367-12-4	41.4%	10 – 85	12/12/2024 03:43	
2-Fluorophenol	367-12-4	55.3%	10 – 85	12/13/2024 02:27	
Nitrobenzene-d5	4165-60-0	76%	32 – 125	12/12/2024 03:43	
Nitrobenzene-d5	4165-60-0	91%	32 – 125	12/13/2024 02:27	
Phenol-d5	4165-62-2	36.8%	7 – 56	12/12/2024 03:43	
Phenol-d5	4165-62-2	46.8%	7 – 56	12/13/2024 02:27	
Terphenyl-d14	98904-43-9	41.9%	41 – 145	12/12/2024 03:43	
Terphenyl-d14	98904-43-9	61.2%	41 – 145	12/13/2024 02:27	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/13/2024 03:09	BST	A

Results

Client Sample ID	MW-40-DUP	Collected	12/09/2024 13:45
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:09	BST	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2,4-Trimethylbenzene	17.9J	J	ug/L	50.0	12.5	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,3,5-Trimethylbenzene	10.5J	J	ug/L	50.0	10.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/13/2024 03:09	BST	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/13/2024 03:09	BST	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/13/2024 03:09	BST	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/13/2024 03:09	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/13/2024 03:09	BST	A
Benzene	1540		ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 03:09	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 03:09	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Ethylbenzene	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/13/2024 03:09	BST	A
mp-Xylene	42.8J	J	ug/L	100	26.0	SW846 8260D	50	12/13/2024 03:09	BST	A
o-Xylene	19.7J	J	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Styrene	12.6J	J	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Toluene	94.3		ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 03:09	BST	A

Results

Client Sample ID	MW-40-DUP	Collected	12/09/2024 13:45
Lab Sample ID	3391293003	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	62.5J	J	ug/L	150	33.0	SW846 8260D	50	12/13/2024 03:09	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/13/2024 03:09	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/13/2024 03:09	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/13/2024 03:09	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	12/13/2024 03:09	
Dibromofluoromethane	1868-53-7	96.9%	78 – 116	12/13/2024 03:09	
Toluene-d8	2037-26-5	99.6%	76 – 127	12/13/2024 03:09	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	33	3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	1230	4	mg/L	50	50	SM2320B-2011	10	12/16/2024 06:54	KMV	I
Chloride	69.6		mg/L	5.0	2.2	SW846 9056A	5	12/10/2024 18:00	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/10/2024 18:00	J1W	I
pH	8.04	5	pH_Units			S4500HB-11	1	12/12/2024 18:27	KMV	I
Specific Conductance	2550		umhos/cm	50	1	SW846 9050A	10	12/10/2024 17:34	LMD	I
Sulfate	33.3		mg/L	5.0	3.5	SW846 9056A	5	12/10/2024 18:00	J1W	I
Total Dissolved Solids	1100		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	55		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	MW-41	Collected	12/09/2024 12:42
Lab Sample ID	3391293004	Lab Receipt	12/10/2024 09:02

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Aluminum, Total	0.075J	J	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Barium, Dissolved	0.20		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Barium, Total	0.20		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Calcium, Dissolved	99.6		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Calcium, Total	93.1		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Chromium, Dissolved	0.0071		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Chromium, Total	0.0059		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Iron, Dissolved	8.0		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Iron, Total	7.9		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Magnesium, Dissolved	165		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Magnesium, Total	163		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Manganese, Dissolved	1.4		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Manganese, Total	1.4		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:15	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:30	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Potassium, Dissolved	40.9		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Potassium, Total	39.7		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Sodium, Dissolved	30.4		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Sodium, Total	29.4		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Thallium, Dissolved	0.011J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/17/2024 12:29	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:48	MSY	E2

Results

Client Sample ID	MW-41	Collected	12/09/2024 12:42
Lab Sample ID	3391293004	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,4-Dimethylphenol	117		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 02:55	M1O	D
2-Methylnaphthalene	205		ug/L	75.0	12.5	SW846 8270E	50	12/13/2024 01:38	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 02:55	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 02:55	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:55	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 02:55	M1O	D
Acenaphthene	159		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Acenaphthylene	6.6		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 02:55	M1O	D
Anthracene	6.3		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 02:55	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 02:55	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 02:55	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 02:55	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 02:55	M1O	D
Biphenyl	20.6		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:55	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 02:55	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 02:55	M1O	D
Carbazole	94.2		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D

Results

Client Sample ID	MW-41	Collected	12/09/2024 12:42
Lab Sample ID	3391293004	Lab Receipt	12/10/2024 09:02

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 02:55	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 02:55	M1O	D
Dibenzofuran	58.9		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 02:55	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Fluoranthene	7.4		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Fluorene	59.5		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 02:55	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 02:55	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 02:55	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 02:55	M1O	D
mp-Cresol	29.5		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
Naphthalene	11300	E	ug/L	75.0	32.5	SW846 8270E	50	12/13/2024 01:38	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 02:55	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 02:55	M1O	D
o-Cresol	17.1		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 02:55	M1O	D
Phenanthrene	64.2		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Phenol	43.7		ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
Pyrene	4.1		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	75.9%	23 – 131	12/12/2024 02:55	
2,4,6-Tribromophenol	118-79-6	69.7%	23 – 131	12/13/2024 01:38	
2-Fluorobiphenyl	321-60-8	66.7%	24 – 116	12/12/2024 02:55	
2-Fluorobiphenyl	321-60-8	84.8%	24 – 116	12/13/2024 01:38	
2-Fluorophenol	367-12-4	44.9%	10 – 85	12/12/2024 02:55	
2-Fluorophenol	367-12-4	0*%	10 – 85	12/13/2024 01:38	7
Nitrobenzene-d5	4165-60-0	83.4%	32 – 125	12/12/2024 02:55	
Nitrobenzene-d5	4165-60-0	65.4%	32 – 125	12/13/2024 01:38	
Phenol-d5	4165-62-2	35.4%	7 – 56	12/12/2024 02:55	
Phenol-d5	4165-62-2	41.9%	7 – 56	12/13/2024 01:38	
Terphenyl-d14	98904-43-9	27.5*%	41 – 145	12/12/2024 02:55	9
Terphenyl-d14	98904-43-9	0*%	41 – 145	12/13/2024 01:38	8

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/13/2024 03:29	BST	A

Results

Client Sample ID	MW-41	Collected	12/09/2024 12:42
Lab Sample ID	3391293004	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:29	BST	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2,4-Trimethylbenzene	83.9		ug/L	50.0	12.5	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,3,5-Trimethylbenzene	14.1J	J	ug/L	50.0	10.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/13/2024 03:29	BST	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/13/2024 03:29	BST	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/13/2024 03:29	BST	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/13/2024 03:29	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/13/2024 03:29	BST	A
Benzene	27100		ug/L	1000	230	SW846 8260D	1000	12/17/2024 02:30	PDK	B
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 03:29	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 03:29	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Ethylbenzene	230		ug/L	50.0	17.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Isopropylbenzene	12.8J	J	ug/L	50.0	11.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/13/2024 03:29	BST	A
mp-Xylene	118		ug/L	100	26.0	SW846 8260D	50	12/13/2024 03:29	BST	A
o-Xylene	97.1		ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Styrene	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Toluene	152		ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 03:29	BST	A

Results

Client Sample ID	MW-41	Collected	12/09/2024 12:42
Lab Sample ID	3391293004	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	215		ug/L	150	33.0	SW846 8260D	50	12/13/2024 03:29	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/13/2024 03:29	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/13/2024 03:29	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/13/2024 03:29	
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/17/2024 02:30	
4-Bromofluorobenzene	460-00-4	98.2%	79 – 114	12/13/2024 03:29	
4-Bromofluorobenzene	460-00-4	97.4%	79 – 114	12/17/2024 02:30	
Dibromofluoromethane	1868-53-7	102%	78 – 116	12/13/2024 03:29	
Dibromofluoromethane	1868-53-7	95%	78 – 116	12/17/2024 02:30	
Toluene-d8	2037-26-5	99.9%	76 – 127	12/13/2024 03:29	
Toluene-d8	2037-26-5	99%	76 – 127	12/17/2024 02:30	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	1100	4	mg/L	50	50	SM2320B-2011	10	12/16/2024 07:05	KMV	I
Chloride	15.4		mg/L	5.0	2.2	SW846 9056A	5	12/10/2024 18:11	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/10/2024 18:11	J1W	I
pH	8.02	5	pH_Units			S4500HB-11	1	12/12/2024 18:39	KMV	I
Specific Conductance	1810		umhos/cm	5	0.1	SW846 9050A	1	12/10/2024 17:34	LMD	I
Sulfate	9.4		mg/L	5.0	3.5	SW846 9056A	5	12/10/2024 18:11	J1W	I
Total Dissolved Solids	978		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	28		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	MW-43	Collected	12/09/2024 11:40
Lab Sample ID	3391293005	Lab Receipt	12/10/2024 09:02

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Barium, Dissolved	0.31		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Barium, Total	0.31		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Calcium, Dissolved	147	10	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Calcium, Total	142		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Chromium, Dissolved	0.0066		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Iron, Dissolved	5.8		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Iron, Total	6.0		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Magnesium, Dissolved	41.8	10	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Magnesium, Total	41.9		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Manganese, Dissolved	0.47		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Manganese, Total	0.49		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:11	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:18	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Potassium, Dissolved	21.3		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Potassium, Total	21.4		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Sodium, Dissolved	29.1		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Sodium, Total	29.1		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:49	MSY	E2

Results

Client Sample ID	MW-43	Collected	12/09/2024 11:40
Lab Sample ID	3391293005	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 02:06	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 02:06	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 02:06	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:06	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 02:06	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 02:06	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 02:06	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 02:06	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 02:06	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 02:06	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 02:06	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:06	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 02:06	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 02:06	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D

Results

Client Sample ID	MW-43	Collected	12/09/2024 11:40
Lab Sample ID	3391293005	Lab Receipt	12/10/2024 09:02

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 02:06	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 02:06	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 02:06	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 02:06	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 02:06	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 02:06	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 02:06	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
Naphthalene	0.75J	J	ug/L	1.5	0.65	SW846 8270E	1	12/12/2024 02:06	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 02:06	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 02:06	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 02:06	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	77.8%	23 – 131	12/12/2024 02:06	
2-Fluorobiphenyl	321-60-8	66.2%	24 – 116	12/12/2024 02:06	
2-Fluorophenol	367-12-4	47.2%	10 – 85	12/12/2024 02:06	
Nitrobenzene-d5	4165-60-0	71.2%	32 – 125	12/12/2024 02:06	
Phenol-d5	4165-62-2	35.8%	7 – 56	12/12/2024 02:06	
Terphenyl-d14	98904-43-9	35.7*%	41 – 145	12/12/2024 02:06	6

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/17/2024 01:28	PDK	B

Results

Client Sample ID	MW-43	Collected	12/09/2024 11:40
Lab Sample ID	3391293005	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 01:28	PDK	B
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/17/2024 01:28	PDK	B
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/17/2024 01:28	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/17/2024 01:28	PDK	B
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/17/2024 01:28	PDK	B
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:28	PDK	B
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:28	PDK	B
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 01:28	PDK	B
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/17/2024 01:28	PDK	B
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/17/2024 01:28	PDK	B
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:28	PDK	B
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:28	PDK	B
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/17/2024 01:28	PDK	B
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 01:28	PDK	B
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:28	PDK	B
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/17/2024 01:28	PDK	B
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:28	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:28	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:28	PDK	B
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:28	PDK	B
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:28	PDK	B
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 01:28	PDK	B
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 01:28	PDK	B
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 01:28	PDK	B
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/17/2024 01:28	PDK	B
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 01:28	PDK	B
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:28	PDK	B
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 01:28	PDK	B
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/17/2024 01:28	PDK	B
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:28	PDK	B
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:28	PDK	B
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/17/2024 01:28	PDK	B
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:28	PDK	B
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/17/2024 01:28	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 01:28	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:28	PDK	B
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:28	PDK	B
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:28	PDK	B
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 01:28	PDK	B

Results

Client Sample ID	MW-43	Collected	12/09/2024 11:40
Lab Sample ID	3391293005	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/17/2024 01:28	
4-Bromofluorobenzene	460-00-4	98.3%	79 – 114	12/17/2024 01:28	
Dibromofluoromethane	1868-53-7	96.6%	78 – 116	12/17/2024 01:28	
Toluene-d8	2037-26-5	98%	76 – 127	12/17/2024 01:28	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	6	3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	617	4	mg/L	50	50	SM2320B-2011	10	12/16/2024 07:16	KMV	I
Chloride	26.0		mg/L	5.0	2.2	SW846 9056A	5	12/10/2024 18:23	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/10/2024 18:23	J1W	I
pH	8.18	5	pH_Units			S4500HB-11	1	12/12/2024 18:51	KMV	I
Specific Conductance	1090		umhos/cm	5	0.1	SW846 9050A	1	12/10/2024 17:34	LMD	I
Sulfate	ND	ND	mg/L	5.0	3.5	SW846 9056A	5	12/10/2024 18:23	J1W	I
Total Dissolved Solids	582		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	70		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	MW-44	Collected	12/09/2024 15:45
Lab Sample ID	3391293006	Lab Receipt	12/10/2024 09:02

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Aluminum, Total	0.27		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Arsenic, Dissolved	0.0031J	J	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Barium, Dissolved	0.24		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Barium, Total	0.24		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Calcium, Dissolved	185		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Calcium, Total	177		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Chromium, Dissolved	0.0049J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Chromium, Total	0.0068		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Cobalt, Total	0.0029J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Copper, Total	0.0037J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Iron, Dissolved	28.9		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Iron, Total	29.9		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Magnesium, Dissolved	113		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Magnesium, Total	114		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Manganese, Dissolved	0.89		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Manganese, Total	0.92		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:10	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:29	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Potassium, Dissolved	40.6		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Potassium, Total	40.6		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Sodium, Dissolved	38.2		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Sodium, Total	38.1		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/17/2024 12:31	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:51	MSY	E2

Results

Client Sample ID	MW-44	Collected	12/09/2024 15:45
Lab Sample ID	3391293006	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 04:08	M1O	D
2-Methylnaphthalene	0.27J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 04:08	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 04:08	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:08	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 04:08	M1O	D
Acenaphthene	5.1		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Acenaphthylene	0.33J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Acetophenone	3.0J	J	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 04:08	M1O	D
Anthracene	0.52J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 04:08	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 04:08	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 04:08	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 04:08	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 04:08	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:08	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 04:08	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 04:08	M1O	D
Carbazole	0.74J	J	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D

Results

Client Sample ID	MW-44	Collected	12/09/2024 15:45
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 04:08	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 04:08	M1O	D
Dibenzofuran	0.66J	J	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Di-n-Butylphthalate	0.71J	J	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 04:08	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Fluoranthene	0.87J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Fluorene	2.2		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 04:08	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 04:08	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 04:08	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 04:08	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
Naphthalene	2.5		ug/L	1.5	0.65	SW846 8270E	1	12/12/2024 04:08	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 04:08	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 04:08	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 04:08	M1O	D
Phenanthrene	3.1		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
Pyrene	0.54J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	75.4%	23 – 131	12/12/2024 04:08	
2-Fluorobiphenyl	321-60-8	67.2%	24 – 116	12/12/2024 04:08	
2-Fluorophenol	367-12-4	40.1%	10 – 85	12/12/2024 04:08	
Nitrobenzene-d5	4165-60-0	68.1%	32 – 125	12/12/2024 04:08	
Phenol-d5	4165-62-2	32.5%	7 – 56	12/12/2024 04:08	
Terphenyl-d14	98904-43-9	32.1*%	41 – 145	12/12/2024 04:08	11

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/17/2024 01:49	PDK	B

Results

Client Sample ID	MW-44	Collected	12/09/2024 15:45
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 01:49	PDK	B
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/17/2024 01:49	PDK	B
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/17/2024 01:49	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/17/2024 01:49	PDK	B
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/17/2024 01:49	PDK	B
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:49	PDK	B
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:49	PDK	B
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 01:49	PDK	B
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/17/2024 01:49	PDK	B
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/17/2024 01:49	PDK	B
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:49	PDK	B
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:49	PDK	B
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/17/2024 01:49	PDK	B
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 01:49	PDK	B
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:49	PDK	B
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/17/2024 01:49	PDK	B
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:49	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:49	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:49	PDK	B
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:49	PDK	B
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:49	PDK	B
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 01:49	PDK	B
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 01:49	PDK	B
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 01:49	PDK	B
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/17/2024 01:49	PDK	B
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 01:49	PDK	B
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:49	PDK	B
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 01:49	PDK	B
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/17/2024 01:49	PDK	B
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:49	PDK	B
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:49	PDK	B
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/17/2024 01:49	PDK	B
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:49	PDK	B
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/17/2024 01:49	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 01:49	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:49	PDK	B
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:49	PDK	B
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:49	PDK	B
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 01:49	PDK	B

Results

Client Sample ID	MW-44	Collected	12/09/2024 15:45
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/17/2024 01:49	
4-Bromofluorobenzene	460-00-4	96.6%	79 – 114	12/17/2024 01:49	
Dibromofluoromethane	1868-53-7	96.3%	78 – 116	12/17/2024 01:49	
Toluene-d8	2037-26-5	98.6%	76 – 127	12/17/2024 01:49	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	62	3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	1160	4	mg/L	50	50	SM2320B-2011	10	12/16/2024 07:29	KMV	I
Chloride	41.4		mg/L	5.0	2.2	SW846 9056A	5	12/10/2024 18:34	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/10/2024 18:34	J1W	I
pH	8.02	5	pH_Units			S4500HB-11	1	12/12/2024 19:03	KMV	I
Specific Conductance	2070		umhos/cm	5	0.1	SW846 9050A	1	12/10/2024 17:34	LMD	I
Sulfate	ND	ND	mg/L	5.0	3.5	SW846 9056A	5	12/10/2024 18:34	J1W	I
Total Dissolved Solids	1000		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	200		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	TB-40	Collected	12/09/2024 00:00
Lab Sample ID	3391293007	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/12/2024 20:51	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/12/2024 20:51	BST	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/12/2024 20:51	BST	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/12/2024 20:51	BST	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/12/2024 20:51	BST	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/12/2024 20:51	BST	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/12/2024 20:51	BST	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/12/2024 20:51	BST	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/12/2024 20:51	BST	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/12/2024 20:51	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/12/2024 20:51	BST	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/12/2024 20:51	BST	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/12/2024 20:51	BST	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/12/2024 20:51	BST	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/12/2024 20:51	BST	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/12/2024 20:51	BST	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/12/2024 20:51	BST	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/12/2024 20:51	BST	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/12/2024 20:51	BST	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/12/2024 20:51	BST	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/12/2024 20:51	BST	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/12/2024 20:51	BST	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/12/2024 20:51	BST	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/12/2024 20:51	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/12/2024 20:51	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/12/2024 20:51	BST	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/12/2024 20:51	BST	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/12/2024 20:51	BST	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/12/2024 20:51	BST	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/12/2024 20:51	BST	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/12/2024 20:51	BST	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/12/2024 20:51	BST	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/12/2024 20:51	BST	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/12/2024 20:51	BST	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/12/2024 20:51	BST	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/12/2024 20:51	BST	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/12/2024 20:51	BST	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/12/2024 20:51	BST	A

Results

Client Sample ID	TB-40	Collected	12/09/2024 00:00
Lab Sample ID	3391293007	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/12/2024 20:51	BST	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/12/2024 20:51	BST	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/12/2024 20:51	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/12/2024 20:51	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/12/2024 20:51	BST	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/12/2024 20:51	BST	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/12/2024 20:51	BST	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/12/2024 20:51	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/12/2024 20:51	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	12/12/2024 20:51	
Dibromofluoromethane	1868-53-7	98.3%	78 – 116	12/12/2024 20:51	
Toluene-d8	2037-26-5	101%	76 – 127	12/12/2024 20:51	

Results

Client Sample ID	MW-22D	Collected	12/09/2024 16:45
Lab Sample ID	3391293008	Lab Receipt	12/10/2024 09:02

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Aluminum, Total	0.31		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Antimony, Total	0.0079J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Arsenic, Dissolved	0.0034J	J	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Barium, Dissolved	0.016		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Barium, Total	0.023		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Calcium, Dissolved	41.2		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Calcium, Total	40.3		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Chromium, Total	0.0032J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Iron, Dissolved	0.041J	J	mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Iron, Total	0.49		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Lead, Total	0.0057J	J	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Magnesium, Dissolved	4.4		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Magnesium, Total	4.5		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Manganese, Dissolved	0.012		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Manganese, Total	0.030		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:05	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:24	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Potassium, Dissolved	5.8		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Potassium, Total	6.0		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Selenium, Total	0.0077J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Sodium, Dissolved	75.6		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Sodium, Total	75.4		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:55	MSY	E2

Results

Client Sample ID	MW-22D	Collected	12/09/2024 16:45
Lab Sample ID	3391293008	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 04:32	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 04:32	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 04:32	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:32	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 04:32	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 04:32	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 04:32	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 04:32	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 04:32	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 04:32	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 04:32	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:32	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 04:32	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 04:32	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D

Results

Client Sample ID	MW-22D	Collected	12/09/2024 16:45
Lab Sample ID	3391293008	Lab Receipt	12/10/2024 09:02

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 04:32	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 04:32	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Di-n-Butylphthalate	0.92J	J	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 04:32	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Fluoranthene	0.41J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 04:32	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 04:32	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 04:32	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 04:32	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
Naphthalene	2.2		ug/L	1.5	0.65	SW846 8270E	1	12/12/2024 04:32	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 04:32	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 04:32	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 04:32	M1O	D
Phenanthrene	0.54J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
Pyrene	0.28J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	75.8%	23 – 131	12/12/2024 04:32	
2-Fluorobiphenyl	321-60-8	71.4%	24 – 116	12/12/2024 04:32	
2-Fluorophenol	367-12-4	41.5%	10 – 85	12/12/2024 04:32	
Nitrobenzene-d5	4165-60-0	71.6%	32 – 125	12/12/2024 04:32	
Phenol-d5	4165-62-2	36.7%	7 – 56	12/12/2024 04:32	
Terphenyl-d14	98904-43-9	54.5%	41 – 145	12/12/2024 04:32	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/17/2024 02:09	PDK	B

Results

Client Sample ID	MW-22D	Collected	12/09/2024 16:45
Lab Sample ID	3391293008	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 02:09	PDK	B
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/17/2024 02:09	PDK	B
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/17/2024 02:09	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/17/2024 02:09	PDK	B
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/17/2024 02:09	PDK	B
Benzene	0.38J	J	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 02:09	PDK	B
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 02:09	PDK	B
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 02:09	PDK	B
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/17/2024 02:09	PDK	B
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/17/2024 02:09	PDK	B
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 02:09	PDK	B
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 02:09	PDK	B
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/17/2024 02:09	PDK	B
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 02:09	PDK	B
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 02:09	PDK	B
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/17/2024 02:09	PDK	B
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 02:09	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 02:09	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 02:09	PDK	B
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 02:09	PDK	B
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 02:09	PDK	B
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 02:09	PDK	B
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 02:09	PDK	B
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 02:09	PDK	B
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/17/2024 02:09	PDK	B
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 02:09	PDK	B
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 02:09	PDK	B
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 02:09	PDK	B
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/17/2024 02:09	PDK	B
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 02:09	PDK	B
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 02:09	PDK	B
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/17/2024 02:09	PDK	B
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 02:09	PDK	B
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/17/2024 02:09	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 02:09	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 02:09	PDK	B
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 02:09	PDK	B
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 02:09	PDK	B
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 02:09	PDK	B

Results

Client Sample ID	MW-22D	Collected	12/09/2024 16:45
Lab Sample ID	3391293008	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/17/2024 02:09	
4-Bromofluorobenzene	460-00-4	98.1%	79 – 114	12/17/2024 02:09	
Dibromofluoromethane	1868-53-7	96.4%	78 – 116	12/17/2024 02:09	
Toluene-d8	2037-26-5	98.5%	76 – 127	12/17/2024 02:09	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	80	4	mg/L	5	5	SM2320B-2011	1	12/12/2024 19:12	KMV	I
Chloride	16.1		mg/L	2.0	0.88	SW846 9056A	2	12/10/2024 19:31	J1W	I
Nitrate-N	1.4		mg/L	1.0	0.32	SW846 9056A	2	12/10/2024 19:31	J1W	I
pH	8.20	5	pH_Units			S4500HB-11	1	12/12/2024 19:12	KMV	I
Specific Conductance	592		umhos/cm	5	0.1	SW846 9050A	1	12/10/2024 17:34	LMD	I
Sulfate	173		mg/L	2.0	1.4	SW846 9056A	2	12/10/2024 19:31	J1W	I
Total Dissolved Solids	326		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	50		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	MW-22S	Collected	12/09/2024 16:45
Lab Sample ID	3391293009	Lab Receipt	12/10/2024 09:02

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Aluminum, Total	0.038J	J	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Antimony, Total	0.0076J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Arsenic, Dissolved	0.0072J	J	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Arsenic, Total	0.010		mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 11:22	MSY	E2
Barium, Dissolved	0.025		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Barium, Total	0.025		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Calcium, Dissolved	110		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Calcium, Total	106		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Chromium, Total	0.0021J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Iron, Dissolved	0.17		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Iron, Total	0.24		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Magnesium, Dissolved	33.4		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Magnesium, Total	32.3		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Manganese, Dissolved	0.043		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Manganese, Total	0.043		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:14	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:27	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Potassium, Dissolved	9.7		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Potassium, Total	9.7		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Selenium, Dissolved	0.0081J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Selenium, Total	0.011J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Sodium, Dissolved	181		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Sodium, Total	182		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:50	MSY	E2

Results

Client Sample ID	MW-22S	Collected	12/09/2024 16:45
Lab Sample ID	3391293009	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,4-Dimethylphenol	33.0		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 04:57	M1O	D
2-Methylnaphthalene	1.5		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 04:57	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 04:57	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:57	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 04:57	M1O	D
Acenaphthene	1.0J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Acenaphthylene	1.9		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 04:57	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 04:57	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 04:57	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 04:57	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 04:57	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 04:57	M1O	D
Biphenyl	0.90J	J	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:57	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 04:57	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 04:57	M1O	D
Carbazole	10.2		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D

Results

Client Sample ID	MW-22S	Collected	12/09/2024 16:45
Lab Sample ID	3391293009	Lab Receipt	12/10/2024 09:02

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 04:57	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 04:57	M1O	D
Dibenzofuran	1.4J	J	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 04:57	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Fluorene	0.87J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 04:57	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 04:57	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 04:57	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 04:57	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
Naphthalene	411		ug/L	6.0	2.6	SW846 8270E	4	12/13/2024 02:51	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 04:57	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 04:57	M1O	D
o-Cresol	11.5		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 04:57	M1O	D
Phenanthrene	0.67J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Phenol	8.0		ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	61.1%	23 – 131	12/12/2024 04:57	
2,4,6-Tribromophenol	118-79-6	75%	23 – 131	12/13/2024 02:51	
2-Fluorobiphenyl	321-60-8	63.2%	24 – 116	12/12/2024 04:57	
2-Fluorobiphenyl	321-60-8	84.8%	24 – 116	12/13/2024 02:51	
2-Fluorophenol	367-12-4	38.4%	10 – 85	12/12/2024 04:57	
2-Fluorophenol	367-12-4	46.9%	10 – 85	12/13/2024 02:51	
Nitrobenzene-d5	4165-60-0	71.9%	32 – 125	12/12/2024 04:57	
Nitrobenzene-d5	4165-60-0	85%	32 – 125	12/13/2024 02:51	
Phenol-d5	4165-62-2	32.9%	7 – 56	12/12/2024 04:57	
Phenol-d5	4165-62-2	41%	7 – 56	12/13/2024 02:51	
Terphenyl-d14	98904-43-9	34.8*%	41 – 145	12/12/2024 04:57	12
Terphenyl-d14	98904-43-9	48.3%	41 – 145	12/13/2024 02:51	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	10.0	2.2	SW846 8260D	10	12/13/2024 01:30	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	10.0	3.4	SW846 8260D	10	12/13/2024 01:30	BST	A

Results

Client Sample ID	MW-22S	Collected	12/09/2024 16:45
Lab Sample ID	3391293009	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	10.0	3.3	SW846 8260D	10	12/13/2024 01:30	BST	A
1,1-Dichloroethane	ND	ND	ug/L	10.0	2.8	SW846 8260D	10	12/13/2024 01:30	BST	A
1,1-Dichloroethene	ND	ND	ug/L	10.0	2.9	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	20.0	9.3	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2,3-Trichloropropane	ND	ND	ug/L	20.0	6.0	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	20.0	8.2	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2,4-Trimethylbenzene	7.0J	J	ug/L	10.0	2.5	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	70.0	15.0	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2-Dibromoethane	ND	ND	ug/L	10.0	2.8	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2-Dichlorobenzene	ND	ND	ug/L	10.0	3.8	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2-Dichloroethane	ND	ND	ug/L	10.0	3.2	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2-Dichloropropane	ND	ND	ug/L	10.0	2.4	SW846 8260D	10	12/13/2024 01:30	BST	A
1,3,5-Trimethylbenzene	2.9J	J	ug/L	10.0	2.0	SW846 8260D	10	12/13/2024 01:30	BST	A
1,3-Dichlorobenzene	ND	ND	ug/L	10.0	2.5	SW846 8260D	10	12/13/2024 01:30	BST	A
1,4-Dichlorobenzene	ND	ND	ug/L	10.0	2.7	SW846 8260D	10	12/13/2024 01:30	BST	A
2-Butanone	ND	ND	ug/L	100	18.0	SW846 8260D	10	12/13/2024 01:30	BST	A
2-Hexanone	ND	ND	ug/L	50.0	13.0	SW846 8260D	10	12/13/2024 01:30	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	50.0	15.0	SW846 8260D	10	12/13/2024 01:30	BST	A
Acetone	ND	ND	ug/L	100	31.0	SW846 8260D	10	12/13/2024 01:30	BST	A
Benzene	885		ug/L	10.0	2.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Bromochloromethane	ND	ND	ug/L	10.0	3.2	SW846 8260D	10	12/13/2024 01:30	BST	A
Bromodichloromethane	ND	ND	ug/L	10.0	2.7	SW846 8260D	10	12/13/2024 01:30	BST	A
Bromoform	ND	ND	ug/L	10.0	4.0	SW846 8260D	10	12/13/2024 01:30	BST	A
Bromomethane	ND	ND	ug/L	10.0	3.9	SW846 8260D	10	12/13/2024 01:30	BST	A
Carbon Disulfide	2.8J	J	ug/L	10.0	2.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Carbon Tetrachloride	ND	ND	ug/L	10.0	3.1	SW846 8260D	10	12/13/2024 01:30	BST	A
Chlorobenzene	ND	ND	ug/L	10.0	1.9	SW846 8260D	10	12/13/2024 01:30	BST	A
Chlorodibromomethane	ND	ND	ug/L	10.0	4.5	SW846 8260D	10	12/13/2024 01:30	BST	A
Chloroethane	ND	ND	ug/L	10.0	3.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Chloroform	ND	ND	ug/L	10.0	2.1	SW846 8260D	10	12/13/2024 01:30	BST	A
Chloromethane	ND	ND	ug/L	10.0	3.1	SW846 8260D	10	12/13/2024 01:30	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	10.0	3.2	SW846 8260D	10	12/13/2024 01:30	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/L	10.0	3.1	SW846 8260D	10	12/13/2024 01:30	BST	A
Cyclohexane	ND	ND	ug/L	10.0	2.9	SW846 8260D	10	12/13/2024 01:30	BST	A
Dichlorodifluoromethane	ND	ND	ug/L	10.0	3.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Ethylbenzene	10.2		ug/L	10.0	3.4	SW846 8260D	10	12/13/2024 01:30	BST	A
Freon 113	ND	ND	ug/L	10.0	2.6	SW846 8260D	10	12/13/2024 01:30	BST	A
Isopropylbenzene	ND	ND	ug/L	10.0	2.2	SW846 8260D	10	12/13/2024 01:30	BST	A
Methyl acetate	ND	ND	ug/L	20.0	3.2	SW846 8260D	10	12/13/2024 01:30	BST	A
Methyl cyclohexane	ND	ND	ug/L	10.0	3.0	SW846 8260D	10	12/13/2024 01:30	BST	A
Methyl t-Butyl Ether	ND	ND	ug/L	10.0	3.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Methylene Chloride	ND	ND	ug/L	10.0	4.5	SW846 8260D	10	12/13/2024 01:30	BST	A
mp-Xylene	12.4J	J	ug/L	20.0	5.2	SW846 8260D	10	12/13/2024 01:30	BST	A
o-Xylene	19.4		ug/L	10.0	3.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Styrene	5.8J	J	ug/L	10.0	2.4	SW846 8260D	10	12/13/2024 01:30	BST	A
Tetrachloroethene	ND	ND	ug/L	10.0	3.5	SW846 8260D	10	12/13/2024 01:30	BST	A
Toluene	5.8J	J	ug/L	10.0	2.3	SW846 8260D	10	12/13/2024 01:30	BST	A

Results

Client Sample ID	MW-22S	Collected	12/09/2024 16:45
Lab Sample ID	3391293009	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	31.8		ug/L	30.0	6.6	SW846 8260D	10	12/13/2024 01:30	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	10.0	2.6	SW846 8260D	10	12/13/2024 01:30	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/L	10.0	2.9	SW846 8260D	10	12/13/2024 01:30	BST	A
Trichloroethene	ND	ND	ug/L	10.0	3.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Trichlorofluoromethane	ND	ND	ug/L	10.0	2.4	SW846 8260D	10	12/13/2024 01:30	BST	A
Vinyl Chloride	ND	ND	ug/L	10.0	3.0	SW846 8260D	10	12/13/2024 01:30	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/13/2024 01:30	
4-Bromofluorobenzene	460-00-4	97.7%	79 – 114	12/13/2024 01:30	
Dibromofluoromethane	1868-53-7	101%	78 – 116	12/13/2024 01:30	
Toluene-d8	2037-26-5	99%	76 – 127	12/13/2024 01:30	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	106	4	mg/L	5	5	SM2320B-2011	1	12/12/2024 19:35	KMV	I
Chloride	92.2		mg/L	2.0	0.88	SW846 9056A	2	12/10/2024 20:39	J1W	I
Nitrate-N	0.39J	J	mg/L	1.0	0.32	SW846 9056A	2	12/10/2024 20:39	J1W	I
pH	8.46	5	pH_Units			S4500HB-11	1	12/12/2024 19:35	KMV	I
Specific Conductance	2090		umhos/cm	5	0.1	SW846 9050A	1	12/10/2024 17:34	LMD	I
Sulfate	611		mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 12:00	J1W	I
Total Dissolved Solids	1060		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	12		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391293001	MW-39	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391293002	MW-40	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391293003	MW-40-DUP	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391293004	MW-41	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391293005	MW-43	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391293006	MW-44	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391293007	TB-40	SW846 8260D	N/A	
3391293008	MW-22D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391293009	MW-22S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1354195	Prep Method	SW846 7470A
Date	12/11/2024 09:19	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Method Blank 3916198 (MB) Created on 12/11/2024 07:32 For QC Batch 1354195

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3916199 (LCS) Created on 12/11/2024 07:32 For QC Batch 1354195

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0019		0.0020	93.5	85 - 115		

Matrix Spike 3916200 (MS) 3391293005 For QC Batch 1354195

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916201 (MSD) 3391293005 For QC Batch 1354195

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0045	0.000052	0.0050	88.8	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0049	0.000052	0.0050	97.2	70 - 130	RPD 8.94 (Max-20)	

QC Batch

QC Batch	1354215	Prep Method	SW846 7470A
Date	12/11/2024 09:19	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Method Blank 3916264 (MB) Created on 12/11/2024 08:35 For QC Batch 1354215

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3916265 (LCS) Created on 12/11/2024 08:35 For QC Batch 1354215

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0019		0.0020	94.5	85 - 115		

Matrix Spike 3916266 (MS) 3391293008 For QC Batch 1354215

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916267 (MSD) 3391293008 For QC Batch 1354215

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0046	0.000042	0.0050	91.6	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0047	0.000042	0.0050	93.6	70 - 130	RPD 2.14 (Max-20)	

QC Batch

QC Batch	1354227	Prep Method	SW846 3015A
Date	12/11/2024 11:10	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	

Matrix Spike 3916295 (MS) 3391334003 (non-Project Sample) For QC Batch 1354227

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916296 (MSD) 3391334003 (non-Project Sample) For QC Batch 1354227

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Calcium, Total	7440-70-2	MS	26.2	25.20	1.10	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	26.1	25.20	1.10	NC	75 - 125	RPD 0.51 (Max-20)	
Iron, Total	7439-89-6	MS	89.8	89.90	1.10	NC	75 - 125		
Iron, Total	7439-89-6	MSD	90.3	89.90	1.10	NC	75 - 125	RPD 0.55 (Max-20)	
Magnesium, Total	7439-95-4	MS	9.9	8.70	1.10	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	9.8	8.70	1.10	NC	75 - 125	RPD 0.35 (Max-20)	
Manganese, Total	7439-96-5	MS	22	22.20	0.11	NC	75 - 125		
Manganese, Total	7439-96-5	MSD	22	22.20	0.11	NC	75 - 125	RPD 0.19 (Max-20)	
Potassium, Total	7440-09-7	MS	26.2	2.90	22.20	105	75 - 125		
Potassium, Total	7440-09-7	MSD	25.9	2.90	22.20	104	75 - 125	RPD 1.31 (Max-20)	
Sodium, Total	7440-23-5	MS	58.7	35.50	22.20	105	75 - 125		
Sodium, Total	7440-23-5	MSD	58.5	35.50	22.20	104	75 - 125	RPD 0.37 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Method Blank 3916293 (MB) Created on 12/11/2024 08:56 For QC Batch 1354227

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3916294 (LCS) Created on 12/11/2024 08:56 For QC Batch 1354227

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	106	80 - 120		
Antimony, Total	7440-36-0	LCS	0.24		0.22	109	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	104	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	110	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	110	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	108	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	102	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	112	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	109	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	103	80 - 120		
Iron, Total	7439-89-6	LCS	1.2		1.10	109	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	111	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	110	80 - 120		
Manganese, Total	7439-96-5	LCS	0.11		0.11	103	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	108	80 - 120		
Potassium, Total	7440-09-7	LCS	23.3		22.20	105	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Selenium, Total	7782-49-2	LCS	1.2		1.10	107	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	109	80 - 120		
Sodium, Total	7440-23-5	LCS	23.9		22.20	108	80 - 120		
Thallium, Total	7440-28-0	LCS	0.11		0.11	98.2	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.061		0.0560	110	80 - 120		
Zinc, Total	7440-66-6	LCS	0.59		0.56	106	80 - 120		

QC Batch

QC Batch	1354228	Prep Method	SW846 3015A
Date	12/11/2024 11:54	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Method Blank 3916297 (MB) Created on 12/11/2024 08:58 For QC Batch 1354228

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3916298 (LCS) Created on 12/11/2024 08:58 For QC Batch 1354228

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.2		1.10	104	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.24		0.22	107	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.11		0.11	102	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	108	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.24		0.22	108	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	107	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.1		1.10	97.9	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	108	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	109	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.2		1.10	104	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	108	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	109	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	109	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	118	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	108	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	23.8		22.20	107	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	105	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	108	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	24.5		22.20	110	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.12		0.11	104	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.06		0.0560	109	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.58		0.56	105	80 - 120		

Matrix Spike 3916299 (MS) 3391293005 For QC Batch 1354228

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916300 (MSD) 3391293005 For QC Batch 1354228

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.2	0	1.10	108	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.2	0	1.10	105	75 - 125	RPD 2.48 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.25	0	0.22	110	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.25	0	0.22	113	75 - 125	RPD 2.15 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0.0030	0.11	104	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.11	0.0030	0.11	98.7	75 - 125	RPD 4.72 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.5	0.31	1.10	109	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.5	0.31	1.10	107	75 - 125	RPD 1.33 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.25	0.000330	0.22	111	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.24	0.000330	0.22	109	75 - 125	RPD 1.63 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.12	0	0.11	108	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cadmium, Dissolved	7440-43-9_D	MSD	0.12	0	0.11	107	75 - 125	RPD 1.11 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	147	147	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	147	147	1.10	NC	75 - 125	RPD 0.10 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.12	0.0066	0.11	106	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0066	0.11	106	75 - 125	RPD 0.27 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.2	0.000330	1.10	107	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.2	0.000330	1.10	106	75 - 125	RPD 0.86 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.2	0.0010	1.10	108	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0010	1.10	106	75 - 125	RPD 1.41 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	7	5.80	1.10	NC	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	7	5.80	1.10	NC	75 - 125	RPD 0.29 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.12	0	0.11	105	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.11	0	0.11	102	75 - 125	RPD 2.22 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	42.7	41.80	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	42.2	41.80	1.10	NC	75 - 125	RPD 1.08 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.6	0.47	0.11	NC	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.6	0.47	0.11	NC	75 - 125	RPD 0.54 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.2	0.0034	1.10	106	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.2	0.0034	1.10	106	75 - 125	RPD 0.76 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	45.7	21.30	22.20	110	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	45.1	21.30	22.20	107	75 - 125	RPD 1.19 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.2	0.0014	1.10	111	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.2	0.0014	1.10	108	75 - 125	RPD 2.32 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	112	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	111	75 - 125	RPD 0.90 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	53.3	29.10	22.20	109	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	52.8	29.10	22.20	107	75 - 125	RPD 0.83 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.12	0.0020	0.11	107	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.12	0.0020	0.11	108	75 - 125	RPD 0.37 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.062	0	0.0560	111	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.06	0	0.0560	109	75 - 125	RPD 1.82 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.56	0	0.56	101	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.56	0	0.56	100	75 - 125	RPD 0.88 (Max-20)	

QC Batch

QC Batch	1354229	Prep Method	SW846 3015A
Date	12/11/2024 12:54	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391293009

Matrix Spike 3916303 (MS) 3391358004 (non-Project Sample) For QC Batch 1354229

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916304 (MSD) 3391358004 (non-Project Sample) For QC Batch 1354229

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chromium, Total	7440-47-3	MS	0.13	0.01	0.11	112	75 - 125		
Chromium, Total	7440-47-3	MSD	0.17	0.01	0.11	142*	75 - 125	RPD 22.20* (Max-20)	
Copper, Total	7440-50-8	MS	1.2	0.0043	1.10	104	75 - 125		
Copper, Total	7440-50-8	MSD	1.2	0.0043	1.10	104	75 - 125	RPD 0.44 (Max-20)	
Manganese, Total	7439-96-5	MS	0.48	0.35	0.11	119	75 - 125		
Manganese, Total	7439-96-5	MSD	0.45	0.35	0.11	92	75 - 125	RPD 6.34 (Max-20)	

Method Blank 3916301 (MB) Created on 12/11/2024 09:01 For QC Batch 1354229

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	0.0078J	mg/L	0.022	J
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3916302 (LCS) Created on 12/11/2024 09:01 For QC Batch 1354229

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	105	80 - 120		
Antimony, Total	7440-36-0	LCS	0.23		0.22	105	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	105	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	109	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	109	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cadmium, Total	7440-43-9	LCS	0.12		0.11	107	80 - 120		
Calcium, Total	7440-70-2	LCS	1.2		1.10	104	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	108	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	107	80 - 120		
Copper, Total	7440-50-8	LCS	1.2		1.10	105	80 - 120		
Iron, Total	7439-89-6	LCS	1.2		1.10	107	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	109	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	109	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	109	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	109	80 - 120		
Potassium, Total	7440-09-7	LCS	23.3		22.20	105	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	107	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	111	80 - 120		
Sodium, Total	7440-23-5	LCS	23.9		22.20	108	80 - 120		
Thallium, Total	7440-28-0	LCS	0.1		0.11	94.5	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.061		0.0560	109	80 - 120		
Zinc, Total	7440-66-6	LCS	0.6		0.56	108	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1354093	Prep Method	SW846 3510C
Date	12/11/2024 08:45	Analysis Method	SW846 8270E
Tech.	DEC		

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Matrix Spike 3916161 (MS) 3391468002 (non-Project Sample) For QC Batch 1354093

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	MS	25.4	0	52.10	48.7	18 - 124		
1,4-Dioxane	123-91-1	MS	24.7	0	52.10	47.4	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	MS	68.1	0	104	65.4	36 - 133		
2,4,5-Trichlorophenol	95-95-4	MS	75.7	0	104	72.7	44 - 148		
2,4,6-Trichlorophenol	88-06-2	MS	71.5	0	104	68.6	41 - 148		
2,4-Dichlorophenol	120-83-2	MS	72.9	0	104	69.9	44 - 142		
2,4-Dimethylphenol	105-67-9	MS	89.5	0	104	85.9	46 - 141		
2,4-Dinitrophenol	51-28-5	MS	68.6	0	104	65.8	21 - 140		
2,4-Dinitrotoluene	121-14-2	MS	52.3	0	52.10	100	49 - 138		
2,6-Dinitrotoluene	606-20-2	MS	55.6	0	52.10	107	49 - 136		
2-Chloronaphthalene	91-58-7	MS	34.7	0	52.10	66.7	27 - 125		
2-Chlorophenol	95-57-8	MS	67	0	104	64.3	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	MS	79.2	0	104	76	46 - 133		
2-Methylnaphthalene	91-57-6	MS	32.1	0	52.10	61.6	22 - 124		
2-Nitroaniline	88-74-4	MS	52.2	0	52.10	100	55 - 138		
2-Nitrophenol	88-75-5	MS	75.1	0	104	72.1	46 - 140		
3,3-Dichlorobenzidine	91-94-1	MS	35.5	0	104	34*	38 - 115		
3-Nitroaniline	99-09-2	MS	45.8	0	52.10	88	60 - 123		
4-Bromophenyl-phenylether	101-55-3	MS	47.1	0	52.10	90.5	46 - 128		
4-Chloro-3-methylphenol	59-50-7	MS	86.1	0	104	82.6	46 - 144		
4-Chloroaniline	106-47-8	MS	30.5	0	52.10	58.5	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	MS	44	0	52.10	84.5	38 - 128		
4-Nitroaniline	100-01-6	MS	44	0	52.10	84.5	53 - 124		
4-Nitrophenol	100-02-7	MS	49.7	0	104	47.7	5 - 108		
Acenaphthene	83-32-9	MS	41	0	52.10	78.6	36 - 130		
Acenaphthylene	208-96-8	MS	37.8	0	52.10	72.6	39 - 130		
Acetophenone	98-86-2	MS	43.5	0	52.10	83.5	49 - 117		
Anthracene	120-12-7	MS	51.4	0	52.10	98.6	48 - 133		
Atrazine	1912-24-9	MS	55.6	0	52.10	107	44 - 149		
Benzaldehyde	100-52-7	MS	43	0	52.10	82.5	38 - 145		
Benzo(a)anthracene	56-55-3	MS	47.9	0	52.10	92	51 - 127		
Benzo(a)pyrene	50-32-8	MS	47.2	0	52.10	90.6	53 - 127		
Benzo(b)fluoranthene	205-99-2	MS	47.2	0	52.10	90.7	53 - 131		
Benzo(g,h,i)perylene	191-24-2	MS	45.8	0	52.10	88	54 - 131		
Benzo(k)fluoranthene	207-08-9	MS	46.9	0	52.10	90	52 - 130		
Biphenyl	92-52-4	MS	34.8	0	52.10	66.8	30 - 132		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
bis(2-Chloroethoxy)methane	111-91-1	MS	49.6	0	52.10	95.2	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	MS	44.3	0	52.10	85	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	MS	40.1	0	52.10	77.1	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	MS	51.5	0	52.10	98.9	41 - 145		
Butylbenzylphthalate	85-68-7	MS	59.1	0	52.10	114	50 - 137		
Caprolactam	105-60-2	MS	22.9	0	52.10	44	5 - 118		
Carbazole	86-74-8	MS	50.6	0	52.10	97.1	52 - 139		
Chrysene	218-01-9	MS	48.3	0	52.10	92.7	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	MS	46.7	0	52.10	89.7	56 - 130		
Dibenzofuran	132-64-9	MS	43.2	0	52.10	83	39 - 133		
Diethylphthalate	84-66-2	MS	51.2	0	52.10	98.3	45 - 132		
Dimethylphthalate	131-11-3	MS	48.9	0	52.10	93.8	44 - 131		
Di-n-Butylphthalate	84-74-2	MS	54	0.32	52.10	103	47 - 135		
Di-n-Octylphthalate	117-84-0	MS	55.1	0	52.10	106	35 - 141		
Fluoranthene	206-44-0	MS	50.3	0	52.10	96.5	49 - 132		
Fluorene	86-73-7	MS	46.8	0	52.10	89.9	42 - 131		
Hexachlorobenzene	118-74-1	MS	46.8	0	52.10	89.8	59 - 109		
Hexachlorobutadiene	87-68-3	MS	21.7	0	52.10	41.6	5 - 126		
Hexachlorocyclopentadiene	77-47-4	MS	14	0	52.10	26.9	5 - 97		
Hexachloroethane	67-72-1	MS	20	0	52.10	38.4	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	MS	44.1	0	52.10	84.6	55 - 126		
Isophorone	78-59-1	MS	48.5	0	52.10	93	45 - 129		
mp-Cresol	108394/106445	MS	76.1	0	104	73	28 - 128		
Naphthalene	91-20-3	MS	31.8	0	52.10	61.1	21 - 123		
Nitrobenzene	98-95-3	MS	45.1	0	52.10	86.6	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	MS	47.8	0	52.10	91.8	46 - 133		
N-Nitrosodiphenylamine	86-30-6	MS	48.7	0	52.10	93.5	58 - 125		
o-Cresol	95-48-7	MS	74.6	0	104	71.6	34 - 136		
Pentachlorophenol	87-86-5	MS	70.8	0	104	68	41 - 149		
Phenanthrene	85-01-8	MS	51.2	0	52.10	98.4	46 - 131		
Phenol	108-95-2	MS	44.5	0	104	42.7	5 - 111		
Pyrene	129-00-0	MS	53.4	0	52.10	102	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	77.3	104	74.2	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	44.4	52.10	85.2	24 - 116	
2-Fluorophenol	367-12-4	MS	46.2	104	44.4	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	47.3	52.10	90.9	32 - 125	
Phenol-d5	4165-62-2	MS	41.1	104	39.4	7 - 56	
Terphenyl-d14	98904-43-9	MS	33	52.10	63.4	41 - 145	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

Duplicate 3916162 (DUP) 3391468005 (non-Project Sample) For QC Batch 1354093

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	DUP	0	0	RPD	0	(Max-30)	ND
1,4-Dioxane	123-91-1	DUP	0	0	RPD	0	(Max-30)	ND
2,3,4,6-Tetrachlorophenol	58-90-2	DUP	0	0	RPD	0	(Max-30)	ND
2,4,5-Trichlorophenol	95-95-4	DUP	0	0	RPD	0	(Max-23)	ND
2,4,6-Trichlorophenol	88-06-2	DUP	0	0	RPD	0	(Max-23)	ND
2,4-Dichlorophenol	120-83-2	DUP	0	0	RPD	0	(Max-30)	ND
2,4-Dimethylphenol	105-67-9	DUP	0	0	RPD	0	(Max-30)	ND
2,4-Dinitrophenol	51-28-5	DUP	0	0	RPD	0	(Max-30)	ND
2,4-Dinitrotoluene	121-14-2	DUP	0	0	RPD	0	(Max-22)	ND
2,6-Dinitrotoluene	606-20-2	DUP	0	0	RPD	0	(Max-30)	ND
2-Chloronaphthalene	91-58-7	DUP	0	0	RPD	0	(Max-30)	ND
2-Chlorophenol	95-57-8	DUP	0	0	RPD	0	(Max-30)	ND
2-Methyl-4,6-dinitrophenol	534-52-1	DUP	0	0	RPD	0	(Max-30)	ND
2-Methylnaphthalene	91-57-6	DUP	0	0	RPD	0	(Max-30)	ND
2-Nitroaniline	88-74-4	DUP	0	0	RPD	0	(Max-30)	ND
2-Nitrophenol	88-75-5	DUP	0	0	RPD	0	(Max-30)	ND
3,3-Dichlorobenzidine	91-94-1	DUP	0	0	RPD	0	(Max-30)	ND
3-Nitroaniline	99-09-2	DUP	0	0	RPD	0	(Max-30)	ND
4-Bromophenyl-phenylether	101-55-3	DUP	0	0	RPD	0	(Max-30)	ND
4-Chloro-3-methylphenol	59-50-7	DUP	0	0	RPD	0	(Max-30)	ND
4-Chloroaniline	106-47-8	DUP	0	0	RPD	0	(Max-30)	ND
4-Chlorophenyl-phenylether	7005-72-3	DUP	0	0	RPD	0	(Max-30)	ND
4-Nitroaniline	100-01-6	DUP	0	0	RPD	0	(Max-30)	ND
4-Nitrophenol	100-02-7	DUP	0	0	RPD	0	(Max-30)	ND
Acenaphthene	83-32-9	DUP	0	0	RPD	0	(Max-30)	ND
Acenaphthylene	208-96-8	DUP	0	0	RPD	0	(Max-30)	ND
Acetophenone	98-86-2	DUP	0	0	RPD	0	(Max-30)	ND
Anthracene	120-12-7	DUP	0	0	RPD	0	(Max-30)	ND
Atrazine	1912-24-9	DUP	0	0	RPD	0	(Max-30)	ND
Benzaldehyde	100-52-7	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(a)anthracene	56-55-3	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(a)pyrene	50-32-8	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(b)fluoranthene	205-99-2	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(g,h,i)perylene	191-24-2	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(k)fluoranthene	207-08-9	DUP	0	0	RPD	0	(Max-30)	ND
Biphenyl	92-52-4	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Chloroethoxy)methane	111-91-1	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Chloroethyl)ether	111-44-4	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Chloroisopropyl)ether	108-60-1	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Ethylhexyl)phthalate	117-81-7	DUP	0	0	RPD	0	(Max-30)	ND
Butylbenzylphthalate	85-68-7	DUP	0	0	RPD	0	(Max-30)	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
Caprolactam	105-60-2	DUP	0	1.5906	RPD	200*	(Max-30)	ND
Carbazole	86-74-8	DUP	0	0	RPD	0	(Max-30)	ND
Chrysene	218-01-9	DUP	0	0	RPD	0	(Max-30)	ND
Dibenzo(a,h)anthracene	53-70-3	DUP	0	0	RPD	0	(Max-30)	ND
Dibenzofuran	132-64-9	DUP	0	0	RPD	0	(Max-30)	ND
Diethylphthalate	84-66-2	DUP	0	0	RPD	0	(Max-30)	ND
Dimethylphthalate	131-11-3	DUP	0	0	RPD	0	(Max-30)	ND
Di-n-Butylphthalate	84-74-2	DUP	0.5286	0.3197	RPD	49.30*	(Max-30)	J
Di-n-Octylphthalate	117-84-0	DUP	0	0	RPD	0	(Max-30)	ND
Fluoranthene	206-44-0	DUP	0	0	RPD	0	(Max-30)	ND
Fluorene	86-73-7	DUP	0	0	RPD	0	(Max-30)	ND
Hexachlorobenzene	118-74-1	DUP	0	0	RPD	0	(Max-21)	ND
Hexachlorobutadiene	87-68-3	DUP	0	0	RPD	0	(Max-30)	ND
Hexachlorocyclopentadiene	77-47-4	DUP	0	0	RPD	0	(Max-30)	ND
Hexachloroethane	67-72-1	DUP	0	0	RPD	0	(Max-30)	ND
Indeno(1,2,3-cd)pyrene	193-39-5	DUP	0	0	RPD	0	(Max-30)	ND
Isophorone	78-59-1	DUP	0	0	RPD	0	(Max-30)	ND
mp-Cresol	108394/106445	DUP	0	0	RPD	0	(Max-20)	ND
Naphthalene	91-20-3	DUP	0	0	RPD	0	(Max-30)	ND
Nitrobenzene	98-95-3	DUP	0	0	RPD	0	(Max-19)	ND
N-Nitroso-di-n-propylamine	621-64-7	DUP	0	0	RPD	0	(Max-30)	ND
N-Nitrosodiphenylamine	86-30-6	DUP	0	0	RPD	0	(Max-30)	ND
o-Cresol	95-48-7	DUP	0	0	RPD	0	(Max-23)	ND
Pentachlorophenol	87-86-5	DUP	0	0	RPD	0	(Max-28)	ND
Phenanthrene	85-01-8	DUP	0	0	RPD	0	(Max-30)	ND
Phenol	108-95-2	DUP	0	0	RPD	0	(Max-30)	ND
Pyrene	129-00-0	DUP	0	0	RPD	0	(Max-30)	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	DUP	75	104	72	23 - 131	
2-Fluorobiphenyl	321-60-8	DUP	35.3	52.10	67.9	24 - 116	
2-Fluorophenol	367-12-4	DUP	40.6	104	39	10 - 85	
Nitrobenzene-d5	4165-60-0	DUP	38.6	52.10	74	32 - 125	
Phenol-d5	4165-62-2	DUP	35.8	104	34.4	7 - 56	
Terphenyl-d14	98904-43-9	DUP	26	52.10	49.9	41 - 145	

Method Blank 3916159 (MB) Created on 12/11/2024 06:38 For QC Batch 1354093

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	0.40J	ug/L	3.0	J
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	75.6	100	75.6	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	30	50	60.1	24 - 116	
2-Fluorophenol	367-12-4	BLK	49.5	100	49.5	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	38.7	50	77.4	32 - 125	
Phenol-d5	4165-62-2	BLK	39.2	100	39.2	7 - 56	
Terphenyl-d14	98904-43-9	BLK	35.5	50	70.9	41 - 145	

Lab Control Standard 3916160 (LCS) Created on 12/11/2024 06:38 For QC Batch 1354093

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	20.6		50	41.1	18 - 124		
1,4-Dioxane	123-91-1	LCS	20		50	39.9	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	66.4		100	66.4	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	69.7		100	69.7	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	68.7		100	68.7	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	67.6		100	67.6	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	80.2		100	80.2	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	64.2		100	64.2	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	42		50	83.9	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	45.2		50	90.4	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	27.2		50	54.4	27 - 125		
2-Chlorophenol	95-57-8	LCS	63.5		100	63.5	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	69.3		100	69.3	46 - 133		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Methylnaphthalene	91-57-6	LCS	25.9		50	51.9	22 - 124		
2-Nitroaniline	88-74-4	LCS	43.7		50	87.4	55 - 138		
2-Nitrophenol	88-75-5	LCS	68.6		100	68.6	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	48.7		100	48.7	38 - 115		
3-Nitroaniline	99-09-2	LCS	36.9		50	73.8	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	37.2		50	74.3	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	74.4		100	74.4	46 - 144		
4-Chloroaniline	106-47-8	LCS	27.8		50	55.7	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	34.1		50	68.1	38 - 128		
4-Nitroaniline	100-01-6	LCS	39.6		50	79.2	53 - 124		
4-Nitrophenol	100-02-7	LCS	44.2		100	44.2	5 - 108		
Acenaphthene	83-32-9	LCS	31.9		50	63.8	36 - 130		
Acenaphthylene	208-96-8	LCS	29.2		50	58.5	39 - 130		
Acetophenone	98-86-2	LCS	35.3		50	70.7	49 - 117		
Anthracene	120-12-7	LCS	40.9		50	81.9	48 - 133		
Atrazine	1912-24-9	LCS	41		50	81.9	44 - 149		
Benzaldehyde	100-52-7	LCS	33.6		50	67.2	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	41.5		50	83	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	41.4		50	82.7	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	41.6		50	83.1	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	39.5		50	78.9	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	41.6		50	83.2	52 - 130		
Biphenyl	92-52-4	LCS	27.2		50	54.4	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	40.9		50	81.8	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	35.5		50	71.1	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	34.1		50	68.2	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	47.1		50	94.2	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	49.7		50	99.4	50 - 137		
Caprolactam	105-60-2	LCS	17.8		50	35.6	5 - 118		
Carbazole	86-74-8	LCS	40.3		50	80.6	52 - 139		
Chrysene	218-01-9	LCS	42.2		50	84.4	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	39.5		50	79.1	56 - 130		
Dibenzofuran	132-64-9	LCS	33.3		50	66.7	39 - 133		
Diethylphthalate	84-66-2	LCS	40.8		50	81.7	45 - 132		
Dimethylphthalate	131-11-3	LCS	38.7		50	77.4	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	43.6		50	87.2	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	50.2		50	100	35 - 141		
Fluoranthene	206-44-0	LCS	39.9		50	79.8	49 - 132		
Fluorene	86-73-7	LCS	36.6		50	73.1	42 - 131		
Hexachlorobenzene	118-74-1	LCS	36.3		50	72.6	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	18.3		50	36.6	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	10.7		50	21.3	5 - 97		
Hexachloroethane	67-72-1	LCS	17.3		50	34.6	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	37.2		50	74.5	55 - 126		
Isophorone	78-59-1	LCS	38.9		50	77.8	45 - 129		
mp-Cresol	108394/106445	LCS	68.1		100	68.1	28 - 128		
Naphthalene	91-20-3	LCS	25.8		50	51.7	21 - 123		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrobenzene	98-95-3	LCS	35.6		50	71.3	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	39.5		50	78.9	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	48.5		50	97.1	58 - 125		
o-Cresol	95-48-7	LCS	66.2		100	66.2	34 - 136		
Pentachlorophenol	87-86-5	LCS	65		100	65	41 - 149		
Phenanthrene	85-01-8	LCS	39.3		50	78.7	46 - 131		
Phenol	108-95-2	LCS	39.6		100	39.6	5 - 111		
Pyrene	129-00-0	LCS	43.9		50	87.7	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	70.8	100	70.8	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	35.5	50	70.9	24 - 116	
2-Fluorophenol	367-12-4	LCS	44.4	100	44.4	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	36.9	50	73.8	32 - 125	
Phenol-d5	4165-62-2	LCS	36.5	100	36.5	7 - 56	
Terphenyl-d14	98904-43-9	LCS	32.4	50	64.8	41 - 145	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1354784	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391293002 3391293003 3391293004 3391293007 3391293009

Matrix Spike 3917497 (MS) 3391646002 (non-Project Sample) For QC Batch 1354784

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917498 (MSD) 3391646002 (non-Project Sample) For QC Batch 1354784

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	22.8	0	20	114	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	23.1	0	20	115	66 - 130	RPD 1.06 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	20.2	0	20	101	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	20.7	0	20	104	74 - 135	RPD 2.87 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	20.9	0	20	104	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	20.7	0	20	104	82 - 126	RPD 0.79 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	21.6	0	20	108	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	22.2	0	20	111	78 - 124	RPD 2.62 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	23.4	0	20	117	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	24.2	0	20	121	63 - 128	RPD 3.31 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	20.5	0	20	103	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	21	0	20	105	61 - 126	RPD 2.38 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	21.7	0	20	109	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	21.8	0	20	109	75 - 132	RPD 0.46 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	21.4	0	20	107	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.7	0	20	114	67 - 123	RPD 6.07 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	23.3	0	20	116	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	24	0	20	120	76 - 125	RPD 3.01 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	19.2	0	20	96	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	19.5	0	20	97.6	59 - 133	RPD 1.64 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	20.3	0	20	101	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	19.6	0	20	98	80 - 124	RPD 3.38 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	21.2	0	20	106	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	21.8	0	20	109	82 - 118	RPD 2.50 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	20	0	20	100	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	20.5	0	20	102	70 - 133	RPD 2.11 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	21.6	0	20	108	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	22.2	0	20	111	81 - 127	RPD 2.56 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	23.3	0	20	117	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	24.1	0	20	121	76 - 125	RPD 3.34 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	21.4	0	20	107	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	21.5	0	20	108	81 - 118	RPD 0.67 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	21.1	0	20	105	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	21.2	0	20	106	81 - 116	RPD 0.47 (Max-15)	
2-Butanone	78-93-3	MS	95.9	0	100	95.9	50 - 152		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Butanone	78-93-3	MSD	96.1	0	100	96.1	50 - 152	RPD 0.28 (Max-16)	
2-Hexanone	591-78-6	MS	98.3	0	100	98.3	65 - 154		
2-Hexanone	591-78-6	MSD	100	0	100	100	65 - 154	RPD 1.95 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	98.4	0	100	98.4	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	101	0	100	101	71 - 146	RPD 2.32 (Max-16)	
Acetone	67-64-1	MS	85.8	0	100	85.8	40 - 151		
Acetone	67-64-1	MSD	90.5	0	100	90.5	40 - 151	RPD 5.27 (Max-40)	
Benzene	71-43-2	MS	21.7	0	20	108	80 - 124		
Benzene	71-43-2	MSD	21.9	0	20	109	80 - 124	RPD 0.94 (Max-26)	
Bromochloromethane	74-97-5	MS	22.3	0	20	111	73 - 117		
Bromochloromethane	74-97-5	MSD	21.9	0	20	109	73 - 117	RPD 1.77 (Max-19)	
Bromodichloromethane	75-27-4	MS	22.4	0	20	112	79 - 126		
Bromodichloromethane	75-27-4	MSD	22.6	0	20	113	79 - 126	RPD 1.08 (Max-16)	
Bromoform	75-25-2	MS	19.9	0	20	99.3	70 - 123		
Bromoform	75-25-2	MSD	20.2	0	20	101	70 - 123	RPD 1.64 (Max-16)	
Bromomethane	74-83-9	MS	18.7	0	20	93.5	45 - 148		
Bromomethane	74-83-9	MSD	16.7	0	20	83.7	45 - 148	RPD 11 (Max-26)	
Carbon Disulfide	75-15-0	MS	21.6	0	20	108	57 - 131		
Carbon Disulfide	75-15-0	MSD	22.3	0	20	111	57 - 131	RPD 3.17 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	23.7	0	20	118	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	23.9	0	20	119	62 - 132	RPD 0.76 (Max-17)	
Chlorobenzene	108-90-7	MS	21.2	0	20	106	85 - 117		
Chlorobenzene	108-90-7	MSD	21.1	0	20	105	85 - 117	RPD 0.37 (Max-15)	
Chlorodibromomethane	124-48-1	MS	21.3	0	20	106	77 - 122		
Chlorodibromomethane	124-48-1	MSD	20.8	0	20	104	77 - 122	RPD 2.32 (Max-15)	
Chloroethane	75-00-3	MS	19.2	0	20	96.1	51 - 142		
Chloroethane	75-00-3	MSD	18.8	0	20	93.8	51 - 142	RPD 2.45 (Max-24)	
Chloroform	67-66-3	MS	21.4	0	20	107	78 - 122		
Chloroform	67-66-3	MSD	21.7	0	20	108	78 - 122	RPD 0.95 (Max-16)	
Chloromethane	74-87-3	MS	19.5	0	20	97.6	38 - 156		
Chloromethane	74-87-3	MSD	19.6	0	20	97.9	38 - 156	RPD 0.32 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	23.2	0.71	20	112	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	23.9	0.71	20	116	78 - 125	RPD 2.91 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	20.9	0	20	105	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	21.1	0	20	106	81 - 121	RPD 1.15 (Max-16)	
Cyclohexane	110-82-7	MS	23.4	0	20	117	66 - 130		
Cyclohexane	110-82-7	MSD	23.8	0	20	119	66 - 130	RPD 1.62 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	21.3	0	20	107	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	19.9	0	20	99.4	17 - 166	RPD 6.87 (Max-24)	
Ethylbenzene	100-41-4	MS	22.8	0	20	114	80 - 124		
Ethylbenzene	100-41-4	MSD	23	0	20	115	80 - 124	RPD 0.50 (Max-19)	
Freon 113	76-13-1	MS	23.7	0	20	119	50 - 130		
Freon 113	76-13-1	MSD	24.7	0	20	124	50 - 130	RPD 4.16 (Max-26)	
Isopropylbenzene	98-82-8	MS	25.3	0	20	127	73 - 129		
Isopropylbenzene	98-82-8	MSD	26.3	0	20	131*	73 - 129	RPD 3.69 (Max-18)	
Methyl acetate	79-20-9	MS	18.1	0	20	90.5	70 - 130		
Methyl acetate	79-20-9	MSD	18.2	0	20	90.9	70 - 130	RPD 0.42 (Max-18)	
Methyl cyclohexane	108-87-2	MS	22.8	0	20	114	70 - 130		
Methyl cyclohexane	108-87-2	MSD	23.5	0	20	117	70 - 130	RPD 2.76 (Max-18)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl t-Butyl Ether	1634-04-4	MS	21	0	20	105	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	21.2	0	20	106	69 - 115	RPD 0.95 (Max-20)	
Methylene Chloride	75-09-2	MS	21.7	0	20	109	76 - 121		
Methylene Chloride	75-09-2	MSD	22.1	0	20	111	76 - 121	RPD 1.80 (Max-17)	
mp-Xylene	108383/106423	MS	45.7	0	40	114	79 - 125		
mp-Xylene	108383/106423	MSD	45.2	0	40	113	79 - 125	RPD 1.21 (Max-21)	
o-Xylene	95-47-6	MS	23.1	0	20	115	79 - 124		
o-Xylene	95-47-6	MSD	22.9	0	20	114	79 - 124	RPD 1.01 (Max-19)	
Styrene	100-42-5	MS	20.5	0	20	103	79 - 123		
Styrene	100-42-5	MSD	20.9	0	20	104	79 - 123	RPD 1.63 (Max-16)	
Tetrachloroethene	127-18-4	MS	20.1	0	20	101	72 - 124		
Tetrachloroethene	127-18-4	MSD	19.4	0	20	96.9	72 - 124	RPD 3.70 (Max-38)	
Toluene	108-88-3	MS	21.9	0	20	109	80 - 125		
Toluene	108-88-3	MSD	21.8	0	20	109	80 - 125	RPD 0.37 (Max-20)	
Total Xylenes	1330-20-7	MS	68.8	0	60	115	79 - 125		
Total Xylenes	1330-20-7	MSD	68	0	60	113	79 - 125	RPD 1.14 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	22.4	0	20	112	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	23	0	20	115	71 - 122	RPD 2.63 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.5	0	20	108	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	21.2	0	20	106	78 - 126	RPD 1.67 (Max-18)	
Trichloroethene	79-01-6	MS	22	0	20	110	77 - 124		
Trichloroethene	79-01-6	MSD	21.9	0	20	110	77 - 124	RPD 0.56 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	22.1	0	20	110	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	22.3	0	20	111	38 - 123	RPD 1 (Max-23)	
Vinyl Chloride	75-01-4	MS	20.6	0	20	103	27 - 138		
Vinyl Chloride	75-01-4	MSD	21.3	0	20	107	27 - 138	RPD 3.53 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.7	30	106	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	31.8	30	106	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	28.9	30	96.4	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	29.3	30	97.7	79 - 114	
Dibromofluoromethane	1868-53-7	MS	31.2	30	104	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	30.2	30	101	78 - 116	
Toluene-d8	2037-26-5	MS	30.3	30	101	76 - 127	
Toluene-d8	2037-26-5	MSD	29.7	30	98.8	76 - 127	

Method Blank 3917495 (MB) Created on 12/12/2024 19:58 For QC Batch 1354784

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.6	30	102	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	28.9	30	96.5	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.9	30	96.3	78 - 116	
Toluene-d8	2037-26-5	BLK	29.9	30	99.6	76 - 127	

Lab Control Standard 3917496 (LCS) Created on 12/12/2024 19:58 For QC Batch 1354784

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	20.2		20	101	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.4		20	107	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	20.9		20	104	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.9		20	99.6	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.1		20	105	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	21.8		20	109	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22.6		20	113	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.4		20	117	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	23.1		20	115	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	21.3		20	106	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	20.2		20	101	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.7		20	109	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.3		20	96.4	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.7		20	103	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.8		20	114	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	21.7		20	108	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.2		20	106	81 - 116		
2-Butanone	78-93-3	LCS	104		100	104	50 - 152		
2-Hexanone	591-78-6	LCS	106		100	106	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	71 - 146		
Acetone	67-64-1	LCS	102		100	102	40 - 151		
Benzene	71-43-2	LCS	20.1		20	101	80 - 124		
Bromochloromethane	74-97-5	LCS	21.5		20	108	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.4		20	107	79 - 126		
Bromoform	75-25-2	LCS	20.9		20	105	70 - 123		
Bromomethane	74-83-9	LCS	16.6		20	83.2	45 - 148		
Carbon Disulfide	75-15-0	LCS	20.4		20	102	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	20		20	100	62 - 132		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chlorobenzene	108-90-7	LCS	20.5		20	102	85 - 117		
Chlorodibromomethane	124-48-1	LCS	21		20	105	77 - 122		
Chloroethane	75-00-3	LCS	17.8		20	88.8	51 - 142		
Chloroform	67-66-3	LCS	20.1		20	100	78 - 122		
Chloromethane	74-87-3	LCS	19.1		20	95.7	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21.2		20	106	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.8		20	104	81 - 121		
Cyclohexane	110-82-7	LCS	20.1		20	100	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	19.5		20	97.4	17 - 166		
Ethylbenzene	100-41-4	LCS	21.4		20	107	80 - 124		
Freon 113	76-13-1	LCS	21.2		20	106	50 - 130		
Isopropylbenzene	98-82-8	LCS	24.3		20	121	73 - 129		
Methyl acetate	79-20-9	LCS	20.6		20	103	70 - 130		
Methyl cyclohexane	108-87-2	LCS	20.3		20	101	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.8		20	104	69 - 115		
Methylene Chloride	75-09-2	LCS	21		20	105	76 - 121		
mp-Xylene	108383/106423	LCS	42.6		40	107	79 - 125		
o-Xylene	95-47-6	LCS	22		20	110	79 - 124		
Styrene	100-42-5	LCS	23.1		20	115	79 - 123		
Tetrachloroethene	127-18-4	LCS	18.3		20	91.7	72 - 124		
Toluene	108-88-3	LCS	20.5		20	103	80 - 125		
Total Xylenes	1330-20-7	LCS	64.7		60	108	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.9		20	104	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	21.5		20	108	78 - 126		
Trichloroethene	79-01-6	LCS	19.8		20	98.9	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	20		20	100	38 - 123		
Vinyl Chloride	75-01-4	LCS	20		20	99.8	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	31.1	30	104	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.9	30	99.8	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30.5	30	102	78 - 116	
Toluene-d8	2037-26-5	LCS	30.1	30	100	76 - 127	

QC Batch

QC Batch	1356391	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391293001 3391293004 3391293005 3391293006
3391293008

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Matrix Spike 3919057 (MS) 3392207005 (non-Project Sample) For QC Batch 1356391

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919058 (MSD) 3392207005 (non-Project Sample) For QC Batch 1356391

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	20.4	0	20	102	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	18.4	0	20	91.9	66 - 130	RPD 10.50 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	20.9	0	20	105	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	18.2	0	20	91	74 - 135	RPD 13.90 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	20.1	0	20	100	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	17.6	0	20	88.1	82 - 126	RPD 13 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	20.5	0	20	103	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	18.3	0	20	91.5	78 - 124	RPD 11.50 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	21.1	0	20	105	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	18.5	0	20	92.6	63 - 128	RPD 12.90 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	19.7	0	20	98.3	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	17.3	0	20	86.6	61 - 126	RPD 12.70 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	22.9	0	20	115	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	21.3	0	20	106	75 - 132	RPD 7.36 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	20.2	0	20	101	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	17.9	0	20	89.4	67 - 123	RPD 12.30 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.3	0	20	107	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	18.8	0	20	94	76 - 125	RPD 12.60 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	19.6	0	20	98.1	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	17.1	0	20	85.6	59 - 133	RPD 13.60 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	20.1	0	20	100	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	18.2	0	20	91	80 - 124	RPD 9.87 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	20.5	0	20	103	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	18.3	0	20	91.4	82 - 118	RPD 11.60 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	20	0	20	100	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	17.9	0	20	89.3	70 - 133	RPD 11.30 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	20.1	0	20	101	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	17.8	0	20	88.9	81 - 127	RPD 12.40 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	21.6	0	20	108	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	18.9	0	20	94.4	76 - 125	RPD 13.50 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	20.6	0	20	103	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	18.3	0	20	91.4	81 - 118	RPD 11.70 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	20.2	0	20	101	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	17.9	0	20	89.7	81 - 116	RPD 11.80 (Max-15)	
2-Butanone	78-93-3	MS	101	0	100	101	50 - 152		
2-Butanone	78-93-3	MSD	95.3	0	100	95.3	50 - 152	RPD 6.28 (Max-16)	
2-Hexanone	591-78-6	MS	110	0	100	110	65 - 154		
2-Hexanone	591-78-6	MSD	98.4	0	100	98.4	65 - 154	RPD 10.70 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	108	0	100	108	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	96.8	0	100	96.8	71 - 146	RPD 11 (Max-16)	
Acetone	67-64-1	MS	104	0	100	104	40 - 151		
Acetone	67-64-1	MSD	91.7	0	100	91.7	40 - 151	RPD 13 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzene	71-43-2	MS	20.7	0	20	103	80 - 124		
Benzene	71-43-2	MSD	18.3	0	20	91.4	80 - 124	RPD 12.20 (Max-26)	
Bromochloromethane	74-97-5	MS	20.4	0	20	102	73 - 117		
Bromochloromethane	74-97-5	MSD	18.3	0	20	91.7	73 - 117	RPD 10.80 (Max-19)	
Bromodichloromethane	75-27-4	MS	20.1	0	20	101	79 - 126		
Bromodichloromethane	75-27-4	MSD	18.4	0	20	92.1	79 - 126	RPD 8.77 (Max-16)	
Bromoform	75-25-2	MS	18.9	0	20	94.3	70 - 123		
Bromoform	75-25-2	MSD	17.2	0	20	85.9	70 - 123	RPD 9.31 (Max-16)	
Bromomethane	74-83-9	MS	13.3	0	20	66.3	45 - 148		
Bromomethane	74-83-9	MSD	12.3	0	20	61.6	45 - 148	RPD 7.44 (Max-26)	
Carbon Disulfide	75-15-0	MS	18.9	0	20	94.5	57 - 131		
Carbon Disulfide	75-15-0	MSD	16.9	0	20	84.7	57 - 131	RPD 11 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	20.6	0	20	103	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	17.5	0	20	87.6	62 - 132	RPD 16.10 (Max-17)	
Chlorobenzene	108-90-7	MS	20.4	0	20	102	85 - 117		
Chlorobenzene	108-90-7	MSD	18	0	20	90.2	85 - 117	RPD 12.40 (Max-15)	
Chlorodibromomethane	124-48-1	MS	19.9	0	20	99.5	77 - 122		
Chlorodibromomethane	124-48-1	MSD	17.6	0	20	88	77 - 122	RPD 12.20 (Max-15)	
Chloroethane	75-00-3	MS	13.8	0	20	69.2	51 - 142		
Chloroethane	75-00-3	MSD	12.3	0	20	61.3	51 - 142	RPD 12 (Max-24)	
Chloroform	67-66-3	MS	19.3	0	20	96.5	78 - 122		
Chloroform	67-66-3	MSD	17.2	0	20	86.1	78 - 122	RPD 11.40 (Max-16)	
Chloromethane	74-87-3	MS	24.4	0	20	122	38 - 156		
Chloromethane	74-87-3	MSD	21.4	0	20	107	38 - 156	RPD 13 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	21	0	20	105	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	18.9	0	20	94.7	78 - 125	RPD 10.30 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.7	0	20	98.7	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	17.2	0	20	85.9	81 - 121	RPD 13.90 (Max-16)	
Cyclohexane	110-82-7	MS	19.3	0	20	96.4	66 - 130		
Cyclohexane	110-82-7	MSD	17.3	0	20	86.5	66 - 130	RPD 10.90 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	18.4	0	20	92.1	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	15.7	0	20	78.6	17 - 166	RPD 15.80 (Max-24)	
Ethylbenzene	100-41-4	MS	20.8	0	20	104	80 - 124		
Ethylbenzene	100-41-4	MSD	18.7	0	20	93.4	80 - 124	RPD 11 (Max-19)	
Freon 113	76-13-1	MS	18.7	0	20	93.4	50 - 130		
Freon 113	76-13-1	MSD	16.6	0	20	83.1	50 - 130	RPD 11.70 (Max-26)	
Isopropylbenzene	98-82-8	MS	22.7	0	20	114	73 - 129		
Isopropylbenzene	98-82-8	MSD	20.1	0	20	100	73 - 129	RPD 12.50 (Max-18)	
Methyl acetate	79-20-9	MS	20	0	20	100	70 - 130		
Methyl acetate	79-20-9	MSD	17.5	0	20	87.4	70 - 130	RPD 13.60 (Max-18)	
Methyl cyclohexane	108-87-2	MS	17.7	0	20	88.6	70 - 130		
Methyl cyclohexane	108-87-2	MSD	16	0	20	79.9	70 - 130	RPD 10.30 (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	20.6	0	20	103	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	18.4	0	20	91.9	69 - 115	RPD 11.30 (Max-20)	
Methylene Chloride	75-09-2	MS	19.3	0	20	96.5	76 - 121		
Methylene Chloride	75-09-2	MSD	18	0	20	90	76 - 121	RPD 6.96 (Max-17)	
mp-Xylene	108383/106423	MS	42.2	0	40	105	79 - 125		
mp-Xylene	108383/106423	MSD	37.2	0	40	92.9	79 - 125	RPD 12.60 (Max-21)	
o-Xylene	95-47-6	MS	21.2	0	20	106	79 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
o-Xylene	95-47-6	MSD	18.4	0	20	92.2	79 - 124	RPD 14.10 (Max-19)	
Styrene	100-42-5	MS	21.1	0	20	106	79 - 123		
Styrene	100-42-5	MSD	18.6	0	20	93	79 - 123	RPD 12.80 (Max-16)	
Tetrachloroethene	127-18-4	MS	18.4	0	20	91.9	72 - 124		
Tetrachloroethene	127-18-4	MSD	16	0	20	80.2	72 - 124	RPD 13.50 (Max-38)	
Toluene	108-88-3	MS	20.5	0	20	103	80 - 125		
Toluene	108-88-3	MSD	18.1	0	20	90.7	80 - 125	RPD 12.40 (Max-20)	
Total Xylenes	1330-20-7	MS	63.4	0	60	106	79 - 125		
Total Xylenes	1330-20-7	MSD	55.6	0	60	92.7	79 - 125	RPD 13.10 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	20.4	0	20	102	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	18	0	20	90	71 - 122	RPD 12.30 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	20.1	0	20	100	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	18.2	0	20	91.2	78 - 126	RPD 9.61 (Max-18)	
Trichloroethene	79-01-6	MS	19.2	0	20	95.9	77 - 124		
Trichloroethene	79-01-6	MSD	17.8	0	20	88.9	77 - 124	RPD 7.51 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	15.5	0	20	77.5	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	13.3	0	20	66.6	38 - 123	RPD 15.10 (Max-23)	
Vinyl Chloride	75-01-4	MS	20	0	20	100	27 - 138		
Vinyl Chloride	75-01-4	MSD	16.6	0	20	83.2	27 - 138	RPD 18.30 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	32	30	107	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	31	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	28.5	30	95	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.7	30	95.6	79 - 114	
Dibromofluoromethane	1868-53-7	MS	29.7	30	99	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	29.3	30	97.7	78 - 116	
Toluene-d8	2037-26-5	MS	29.7	30	99	76 - 127	
Toluene-d8	2037-26-5	MSD	29.1	30	96.9	76 - 127	

Method Blank 3919046 (MB) Created on 12/16/2024 23:48 For QC Batch 1356391

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.8	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.4	30	97.8	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.4	30	98.2	78 - 116	
Toluene-d8	2037-26-5	BLK	29.9	30	99.6	76 - 127	

Lab Control Standard 3919047 (LCS) Created on 12/16/2024 23:48 For QC Batch 1356391

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	19.5		20	97.3	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	18.7		20	93.3	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	17.9		20	89.7	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	18.7		20	93.4	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	20.6		20	103	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.9		20	99.5	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.4		20	107	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	20.8		20	104	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.1		20	100	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	17.7		20	88.7	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	18.6		20	93.2	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	19		20	95	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	18.2		20	90.9	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	18.3		20	91.3	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	20.1		20	100	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	19.1		20	95.3	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	18.8		20	93.8	81 - 116		
2-Butanone	78-93-3	LCS	97.2		100	97.2	50 - 152		
2-Hexanone	591-78-6	LCS	101		100	101	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	99.2		100	99.2	71 - 146		
Acetone	67-64-1	LCS	96.4		100	96.4	40 - 151		
Benzene	71-43-2	LCS	18.5		20	92.6	80 - 124		
Bromochloromethane	74-97-5	LCS	19		20	95.2	73 - 117		
Bromodichloromethane	75-27-4	LCS	18.5		20	92.4	79 - 126		
Bromoform	75-25-2	LCS	17.7		20	88.6	70 - 123		
Bromomethane	74-83-9	LCS	18.6		20	93	45 - 148		
Carbon Disulfide	75-15-0	LCS	19.5		20	97.4	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.9		20	99.7	62 - 132		
Chlorobenzene	108-90-7	LCS	18.3		20	91.5	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18.1		20	90.5	77 - 122		
Chloroethane	75-00-3	LCS	14.5		20	72.7	51 - 142		
Chloroform	67-66-3	LCS	17.6		20	88	78 - 122		
Chloromethane	74-87-3	LCS	22.4		20	112	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	18.8		20	93.9	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.4		20	92.1	81 - 121		
Cyclohexane	110-82-7	LCS	21.5		20	107	66 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCS	24.1		20	120	17 - 166		
Ethylbenzene	100-41-4	LCS	19.4		20	97	80 - 124		
Freon 113	76-13-1	LCS	21.9		20	109	50 - 130		
Isopropylbenzene	98-82-8	LCS	21.6		20	108	73 - 129		
Methyl acetate	79-20-9	LCS	20.4		20	102	70 - 130		
Methyl cyclohexane	108-87-2	LCS	21.3		20	107	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	18.9		20	94.5	69 - 115		
Methylene Chloride	75-09-2	LCS	18.1		20	90.6	76 - 121		
mp-Xylene	108383/106423	LCS	38.8		40	96.9	79 - 125		
o-Xylene	95-47-6	LCS	18.8		20	93.8	79 - 124		
Styrene	100-42-5	LCS	19.3		20	96.7	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.2		20	95.8	72 - 124		
Toluene	108-88-3	LCS	18.8		20	94.1	80 - 125		
Total Xylenes	1330-20-7	LCS	57.5		60	95.9	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	19		20	94.9	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.1		20	95.3	78 - 126		
Trichloroethene	79-01-6	LCS	18.4		20	92.2	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	19		20	95.2	38 - 123		
Vinyl Chloride	75-01-4	LCS	18.7		20	93.7	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.5	30	98.4	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.1	30	97	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.3	30	97.8	78 - 116	
Toluene-d8	2037-26-5	LCS	29.4	30	98	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1353594	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Matrix Spike 3915898 (MS) 3391173005 (non-Project Sample) For QC Batch 1353594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3915899 (MSD) 3391173005 (non-Project Sample) For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	1.3	0.31	1	95.4	80 - 120		
Nitrate-N	NO3	MSD	1.3	0.31	1	95.1	80 - 120	RPD 0.24 (Max-20)	

Matrix Spike 3915902 (MS) 3391209001 (non-Project Sample) For QC Batch 1353594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike 3916016 (MS) 3390859001 (non-Project Sample) For QC Batch 1353594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916017 (MSD) 3390859001 (non-Project Sample) For QC Batch 1353594

Matrix Spike 3916020 (MS) 3391279001 (non-Project Sample) For QC Batch 1353594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	1.5	0.40	1	112	80 - 120		

Matrix Spike 3916023 (MS) 3391334003 (non-Project Sample) For QC Batch 1353594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916024 (MSD) 3391334003 (non-Project Sample) For QC Batch 1353594

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	284	258	25	NC	80 - 120		
Chloride	Cl	MSD	284	258	25	NC	80 - 120	RPD 0.10 (Max-20)	
Nitrate-N	NO3	MS	3.1	0	2.50	122*	80 - 120		
Nitrate-N	NO3	MSD	3.1	0	2.50	123*	80 - 120	RPD 0.36 (Max-20)	
Sulfate	SO4	MS	70.1	36.40	25	135*	80 - 120		
Sulfate	SO4	MSD	70.4	36.40	25	136*	80 - 120	RPD 0.46 (Max-20)	

Matrix Spike 3916043 (MS) 3391334004 (non-Project Sample) For QC Batch 1353594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	54.5	42.10	10	NC	80 - 120		
Nitrate-N	NO3	MS	1.2	0	1	122*	80 - 120		
Sulfate	SO4	MS	71.4	59.30	10	NC	80 - 120		

Method Blank 3915551 (MB) Created on 12/10/2024 06:36 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3915552 (LCS) Created on 12/10/2024 06:36 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5		5	101	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Lab Control Standard 3915900 (LCS) Created on 12/10/2024 12:18 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.2		50	102	90 - 110		

Method Blank 3915901 (MB) Created on 12/10/2024 12:18 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3915903 (LCS) Created on 12/10/2024 12:18 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.5		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3915904 (MB) Created on 12/10/2024 12:18 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3916018 (LCS) Created on 12/10/2024 14:09 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.6		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	52		50	104	90 - 110		

Method Blank 3916019 (MB) Created on 12/10/2024 14:09 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3916021 (LCS) Created on 12/10/2024 14:09 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.8		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

Method Blank 3916022 (MB) Created on 12/10/2024 14:09 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3916025 (LCS) Created on 12/10/2024 14:09 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.1		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	53.2		50	106	90 - 110		

Method Blank 3916026 (MB) Created on 12/10/2024 14:09 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3916044 (LCS) Created on 12/10/2024 14:29 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.4		50	105	90 - 110		

Method Blank 3916045 (MB) Created on 12/10/2024 14:29 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1353714	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Duplicate 3915951 (DUP) 3390785002 (non-Project Sample) For QC Batch 1353714

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	467	465	RPD	0.43	(Max-10)	

Duplicate 3915953 (DUP) 3391334002 (non-Project Sample) For QC Batch 1353714

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	175.90	175.50	RPD	0.23	(Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3915968 (DUP) 3391334003 (non-Project Sample) For QC Batch 1353714

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	725	721	RPD	0.55 (Max-10)	

QC Batch

QC Batch	1353728	Prep Method	N/A
Date	N/A	Analysis Method	SM2130B-2011
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Duplicate 3915999 (DUP) 3391334003 (non-Project Sample) For QC Batch 1353728

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	35	36	RPD	2.82 (Max-10)	

Method Blank 3915994 (MB) Created on 12/10/2024 13:50 For QC Batch 1353728

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3915996 (DUP) 3391293001 For QC Batch 1353728

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	230	230	RPD	0 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3915997 (MB) Created on 12/10/2024 13:50 For QC Batch 1353728

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3916000 (MB) Created on 12/10/2024 13:50 For QC Batch 1353728

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1354230	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Duplicate 3916683 (DUP) 3391250002 (non-Project Sample) For QC Batch 1354230

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	362	370	RPD	2.19 (Max-5)	

Duplicate 3916684 (DUP) 3391252002 (non-Project Sample) For QC Batch 1354230

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	392	398	RPD	1.52 (Max-5)	

Method Blank 3916305 (MB) Created on 12/11/2024 09:04 For QC Batch 1354230

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3916306 (LCS) Created on 12/11/2024 09:04 For QC Batch 1354230

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	477		500	95.4	90 - 110		

QC Batch

QC Batch	1354703	Prep Method	N/A
Date	N/A	Analysis Method	S4500HB-11
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Duplicate 3917236 (DUP) 3391172002 (non-Project Sample) For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	60.52	60.56	RPD 0.07	(Max-20)	
pH	PH	DUP					

Duplicate 3917252 (DUP) 3391334003 (non-Project Sample) For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	78.40	84.92	RPD 7.98	(Max-20)	
pH	PH	DUP	7.0960	7.2270	RPD 1.83	(Max-10)	

Duplicate 3917256 (DUP) 3391395001 (non-Project Sample) For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	89.88	89.40	RPD	0.54	(Max-20)	
pH	PH	DUP	8.1860	8.1410	RPD	0.55	(Max-10)	

Duplicate 3917260 (DUP) 3391508002 (non-Project Sample) For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	60.40	59	RPD	2.35	(Max-20)	
pH	PH	DUP	8.0580	8.0390	RPD	0.24	(Max-10)	

Duplicate 3917264 (DUP) 3391508003 (non-Project Sample) For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	62.84	61.68	RPD	1.86	(Max-20)	
pH	PH	DUP	8.0530	8.0730	RPD	0.25	(Max-10)	

Method Blank 3917234 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3917238 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3917240 (DUP) 3391293001 For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP					
pH	PH	DUP	8.0610	8.1280	RPD	0.83 (Max-10)	

Method Blank 3917242 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3917244 (DUP) 3391293002 For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP					
pH	PH	DUP	8.0180	8.05	RPD	0.40 (Max-10)	

Method Blank 3917246 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3917248 (DUP) 3391293009 For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	104.88	106.16	RPD	1.21 (Max-20)	
pH	PH	DUP	8.4610	8.4630	RPD	0.02 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3917250 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3917254 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3917258 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3917262 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3917266 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1355591	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3391293009

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3918175 (MS) 3392229002 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918176 (MSD) 3392229002 (non-Project Sample) For QC Batch 1355591

Matrix Spike 3918179 (MS) 3391543002 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike 3918182 (MS) 3391836014 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918183 (MSD) 3391836014 (non-Project Sample) For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	63.3	9	50	109	80 - 120		
Chloride	Cl	MSD	63.2	9	50	108	80 - 120	RPD 0.18 (Max-20)	
Nitrate-N	NO3	MS	44.6	40.30	5	NC	80 - 120		
Nitrate-N	NO3	MSD	44.2	40.30	5	NC	80 - 120	RPD 0.71 (Max-20)	
Sulfate	SO4	MS	637	601	50	NC	80 - 120		
Sulfate	SO4	MSD	633	601	50	NC	80 - 120	RPD 0.67 (Max-20)	

Matrix Spike 3918186 (MS) 3391888001 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	590	553	50	NC	80 - 120		

Matrix Spike 3918206 (MS) 3392316006 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918207 (MSD) 3392316006 (non-Project Sample) For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	36.1	7.50	25	114	80 - 120		
Chloride	Cl	MSD	36.3	7.50	25	115	80 - 120	RPD 0.53 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	3.8	1.20	2.50	104	80 - 120		
Nitrate-N	NO3	MSD	3.8	1.20	2.50	104	80 - 120	RPD 0.24 (Max-20)	

Method Blank 3918161 (MB) Created on 12/14/2024 06:33 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918162 (LCS) Created on 12/14/2024 06:33 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	50.9		50	102	90 - 110		

Lab Control Standard 3918177 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.4		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3918178 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918180 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

Method Blank 3918181 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918184 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.1		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.9		50	106	90 - 110		

Method Blank 3918185 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918187 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.5		50	105	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3918188 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918208 (LCS) Created on 12/14/2024 10:31 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	53		50	106	90 - 110		

Method Blank 3918209 (MB) Created on 12/14/2024 10:31 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1356012	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006		

Duplicate 3918360 (DUP) 3391582001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	832.80	813.20	RPD	2.38 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3918364 (DUP) 3391582010 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	668	687.60	RPD	2.89 (Max-20)	

Duplicate 3918368 (DUP) 3391606001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	3.72	4.92	RPD	27.80* (Max-20)	ND

Duplicate 3918372 (DUP) 3391609001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	2.20	2.56	RPD	15.10 (Max-20)	ND

Duplicate 3918376 (DUP) 3391692001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	114.88	115.60	RPD	0.62 (Max-20)	

Duplicate 3918380 (DUP) 3391762001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	320.44	320.76	RPD	0.10	(Max-20)	

Duplicate 3918384 (DUP) 3391762011 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	58.76	58.12	RPD	1.10	(Max-20)	

Duplicate 3918388 (DUP) 3391836002 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	293.60	295.08	RPD	0.50	(Max-20)	

Duplicate 3918392 (DUP) 3391836012 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3918396 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3918400 (DUP) 3391970001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	152.96	153.16	RPD	0.13 (Max-20)	

Method Blank 3918354 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3918356 (DUP) 3391293006 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	1158.80	1162.80	RPD	0.34 (Max-20)	

Method Blank 3918358 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918362 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918366 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918370 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918374 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918378 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918382 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918386 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918390 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3918394 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	6	mg/L	5	

Method Blank 3918398 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918402 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3918404 (DUP) 3391293001 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	726.40	747.60	RPD	2.88 (Max-20)	

Duplicate 3918405 (DUP) 3391293002 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	1240	1234	RPD	0.49 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1356226	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Duplicate 3918624 (DUP) 3391971001 (non-Project Sample) For QC Batch 1356226

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	1	2	RPD 66.70* (Max-20)	ND

Method Blank 3918623 (MB) Created on 12/16/2024 09:05 For QC Batch 1356226

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3918626 (MB) Created on 12/16/2024 09:05 For QC Batch 1356226

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3918627 (DUP) 3391293006 For QC Batch 1356226

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	67	62	RPD 7.75 (Max-20)	

Method Blank 3918629 (MB) Created on 12/16/2024 09:05 For QC Batch 1356226

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391293001	MW-39	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
3391293002	MW-40	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356346
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1354784
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
3391293003	MW-40-DUP	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356346
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1354784
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
3391293004	MW-41	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356346
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1354784
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391293005	MW-43	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
3391293006	MW-44	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356346
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
3391293007	TB-40	N/A	N/A	N/A		SW846 8260D	1354784
3391293008	MW-22D	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1354703
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
3391293009	MW-22S	SW846 3015A	1354229	12/11/2024 12:54	ANN	SW846 6010C	1360726
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 3015A	1354229	12/11/2024 12:54	ANN	SW846 6010C	1360798
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1354784
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1354703
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
		N/A	N/A	N/A		SW846 9056A	1355591

ALS

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3391293
Logged By: MJE
PM: EXP
ALS Quote
of

Client Name: Michael Baker Intl.
Address: 100 Airside Drive
Moon Twp, PA

Contact: C. Kupter
Phone#: 412-269-6300
Project Name/#: Ene Coke Works
Bill To:
Purchase Order #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email?

Receipt Information (completed by Receiving Lab)
Temp Taken By: MJE Therm ID: 569 WO Temp (°C) 1°
Receipt Info completed by: WV Containers 0-6°C Y N NA
Cooler Custody
Sample Custod
Received on Ic
Coolers & Sam
Correct Contair
Sample Label/
Adequate Sam
VOA only: Trip
NJ ≤ 4 days?
Courier/Tracking

Temp By: MJE | WO Temp (°C) 1° | Therm ID 569

Receipt Info Completed By: MJE
Cooler Custody Seal Intact Y N NA
Sample Custody Seal Intact Y N NA
Received on Ice Y N NA
Cooler & Samples Intact Y N
Correct Containers Provided Y N
Sample Label/COC Agree Y N
Adequate Sample Volumes Y N
CR6 Samples Filtered Y N NA
OP Samples Filtered Y N NA
VOA Trip Blank Y N NA
NJ≤ 4 Days? Y N
Rad Screen (uCi)
Courier/Tracking #: 283085500810
SDWA Compliance Y N
PWSID
WV Containers 0-6°C Y N NA

Sample(s) for uCi)
Reportable St Y N
SDWA State ontact:
PWSID #
PWS Contact

*No sampler, C/C, MJE 12/10/24
Matrix SW

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks
40 and 41 GW samples are considered "Hot"

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

	Container Type	G	G	P	P						
	Container Size	3 40mL	1 500 mL	4 125 mL	2 1L						
	Preservative	HCl	UNP	H_2SO_4 MJE 12/10/24	UNP						

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Gen. Chem.	D. Ss. Metals + Hg 6010/7471B								Enter Number of Containers Per Sample or Field Results Below.
1	MW-39	12/9/24	1200				x3	x1	x2	x2	x2								
2	MW-40		1340				x3	x1	x2	x2	x2	MJE							
3	MW-40-DUP		1345				x3	x1	x2	x2	x2	12/10/24							
4	MW-41		1242				x3	x1	x2	x2	x2								
5	MW-43		1140				x3	x1	x2	x2	x2								
6	MW-44		1545				x3	x1	x2	x2	x2								
7	TB-40	—	—				x2												
8	MW-220	12/9/24	1645				x3	x1	x2	x2	x2								
9	MW-225	12/9/24	1645				x3	x1	x2	x2	x2								
10																			

Circle Sample Collector: ALS Tech / Client
Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/9/24	1800	1	Dave Garrison / MBI	2	Fedex
12/10/24	902	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type

State Samples Collected in: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

283085500810

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3391582
Report ID 386370 on 2/7/2025 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 11, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3391582001	MW-14	Ground Water	12/10/2024 09:35	12/11/2024 09:21	CBC	Collected By Client
3391582002	MW-28	Ground Water	12/10/2024 10:55	12/11/2024 09:21	CBC	Collected By Client
3391582003	MW-37	Ground Water	12/10/2024 14:30	12/11/2024 09:21	CBC	Collected By Client
3391582004	MW-45	Ground Water	12/10/2024 16:10	12/11/2024 09:21	CBC	Collected By Client
3391582005	MW-17	Ground Water	12/10/2024 14:20	12/11/2024 09:21	CBC	Collected By Client
3391582006	MW-13	Ground Water	12/10/2024 15:50	12/11/2024 09:21	CBC	Collected By Client
3391582007	MW-12	Ground Water	12/10/2024 09:15	12/11/2024 09:21	CBC	Collected By Client
3391582008	MW-15	Ground Water	12/10/2024 11:15	12/11/2024 09:21	CBC	Collected By Client
3391582009	MW-15-Dup	Ground Water	12/10/2024 11:30	12/11/2024 09:21	CBC	Collected By Client
3391582010	MW-16	Ground Water	12/10/2024 14:30	12/11/2024 09:21	CBC	Collected By Client
3391582011	MW-2	Ground Water	12/10/2024 15:45	12/11/2024 09:21	CBC	Collected By Client
3391582012	TB-41	Ground Water	12/10/2024 15:45	12/11/2024 09:21	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

P1 This report was revised to include total Zinc results for ALS#3391582007, total Arsenic results for ALS#3391582001, Acenaphthylene for ALS#3391582008 and Carbazole for ALS#3391582009. EXP 2/4/25

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
E	Result reported exceeds instrument calibration
1	The QC sample type LCS for method SW846 8270E was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 37.3 and the control limits were 38 to 115.
2	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
3	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
4	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
5	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
6	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 40.7 and the control limits were 41 to 145. This result was reported at a dilution of 1.
7	The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.
8	The QC sample type MSD for method SW846 6010C was outside the control limits for the analyte Antimony, Dissolved. The % Recovery was reported as 65.3 and the control limits were 75 to 125.
9	The QC sample type MS for method SW846 6010C was outside the control limits for the analyte Antimony, Dissolved. The % Recovery was reported as 62.6 and the control limits were 75 to 125.
10	The QC sample type MSD for method SW846 6010C was outside the control limits for the analyte Calcium, Dissolved. The % Recovery was reported as 21.8 and the control limits were 75 to 125.
11	The QC sample type MS for method SW846 6010C was outside the control limits for the analyte Magnesium, Dissolved. The % Recovery was reported as 130 and the control limits were 75 to 125.
12	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Butylbenzylphthalate. The % Recovery was reported as 124 and the control limits were 80 to 120.
13	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Di-n-Octylphthalate. The % Recovery was reported as 125 and the control limits were 80 to 120.
14	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte bis(2-Ethylhexyl)phthalate. The % Recovery was reported as 124 and the control limits were 80 to 120.
15	The surrogate 2-Fluorophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 167 and the control limits were 10 to 85. This result was reported at a dilution of 100.
16	The surrogate Phenol-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 63 and the control limits were 7 to 56. This result was reported at a dilution of 100.
17	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 41 to 145. This result was reported at a dilution of 100.
18	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 26.3 and the control limits were 41 to 145. This result was reported at a dilution of 4.
19	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 27.8 and the control limits were 41 to 145. This result was reported at a dilution of 1.

20	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 37.6 and the control limits were 41 to 145. This result was reported at a dilution of 20.
21	The surrogate 2-Fluorophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 10 to 85. This result was reported at a dilution of 200.
22	The surrogate Phenol-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 7 to 56. This result was reported at a dilution of 200.
23	The surrogate Nitrobenzene-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 32 to 125. This result was reported at a dilution of 200.
24	The surrogate 2-Fluorobiphenyl for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 24 to 116. This result was reported at a dilution of 200.
25	The surrogate 2,4,6-Tribromophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 23 to 131. This result was reported at a dilution of 200.
26	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 37.3 and the control limits were 41 to 145. This result was reported at a dilution of 10.
27	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 41 to 145. This result was reported at a dilution of 200.
28	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 40.5 and the control limits were 41 to 145. This result was reported at a dilution of 1.
29	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 35.4 and the control limits were 41 to 145. This result was reported at a dilution of 20.
30	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 36.7 and the control limits were 41 to 145. This result was reported at a dilution of 1.
31	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 31.2 and the control limits were 41 to 145. This result was reported at a dilution of 4.

Compound Cross Reference Table

METALS

CAS Number	ALS Name	Common Name
7429-90-5_D	Aluminum, Dissolved	Aluminum, Dissolved
7429-90-5	Aluminum, Total	Aluminum, Total
7440-36-0_D	Antimony, Dissolved	Antimony, Dissolved
7440-36-0	Antimony, Total	Antimony, Total
7440-38-2_D	Arsenic, Dissolved	Arsenic, Dissolved
7440-38-2	Arsenic, Total	Arsenic, Total
7440-39-3_D	Barium, Dissolved	Barium, Dissolved
7440-39-3	Barium, Total	Barium, Total
7440-41-7_D	Beryllium, Dissolved	Beryllium, Dissolved
7440-41-7	Beryllium, Total	Beryllium, Total
7440-43-9_D	Cadmium, Dissolved	Cadmium, Dissolved
7440-43-9	Cadmium, Total	Cadmium, Total
7440-70-2_D	Calcium, Dissolved	Calcium, Dissolved
7440-70-2	Calcium, Total	Calcium, Total
7440-47-3_D	Chromium, Dissolved	Chromium, Dissolved
7440-47-3	Chromium, Total	Chromium, Total
7440-48-4_D	Cobalt, Dissolved	Cobalt, Dissolved
7440-48-4	Cobalt, Total	Cobalt, Total
7440-50-8_D	Copper, Dissolved	Copper, Dissolved
7440-50-8	Copper, Total	Copper, Total
7439-89-6_D	Iron, Dissolved	Iron, Dissolved
7439-89-6	Iron, Total	Iron, Total
7439-92-1_D	Lead, Dissolved	Lead, Dissolved
7439-92-1	Lead, Total	Lead, Total
7439-95-4_D	Magnesium, Dissolved	Magnesium, Dissolved
7439-95-4	Magnesium, Total	Magnesium, Total
7439-96-5_D	Manganese, Dissolved	Manganese, Dissolved
7439-96-5	Manganese, Total	Manganese, Total
7439-97-6_D	Mercury, Dissolved	Mercury, Dissolved
7439-97-6	Mercury, Total	Mercury, Total
7440-02-0_D	Nickel, Dissolved	Nickel, Dissolved
7440-02-0	Nickel, Total	Nickel, Total
7440-09-7_D	Potassium, Dissolved	Potassium, Dissolved
7440-09-7	Potassium, Total	Potassium, Total
7782-49-2_D	Selenium, Dissolved	Selenium, Dissolved
7782-49-2	Selenium, Total	Selenium, Total
7440-22-4_D	Silver, Dissolved	Silver, Dissolved
7440-22-4	Silver, Total	Silver, Total
7440-23-5_D	Sodium, Dissolved	Sodium, Dissolved
7440-23-5	Sodium, Total	Sodium, Total
7440-28-0_D	Thallium, Dissolved	Thallium, Dissolved
7440-28-0	Thallium, Total	Thallium, Total
7440-62-2_D	Vanadium, Dissolved	Vanadium, Dissolved
7440-62-2	Vanadium, Total	Vanadium, Total
7440-66-6_D	Zinc, Dissolved	Zinc, Dissolved
7440-66-6	Zinc, Total	Zinc, Total

SEMIVOLATILES

CAS Number	ALS Name	Common Name
95-94-3	1,2,4,5-Tetrachlorobenzene	1,2,4,5-Tetrachlorobenzene
123-91-1	1,4-Dioxane	1,4-Dioxane
58-90-2	2,3,4,6-Tetrachlorophenol	2,3,4,6-Tetrachlorophenol
95-95-4	2,4,5-Trichlorophenol	2,4,5-Trichlorophenol

Compound Cross Reference Table

SEMIVOLATILES (cont.)

CAS Number	ALS Name	Common Name
88-06-2	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol
120-83-2	2,4-Dichlorophenol	2,4-Dichlorophenol
105-67-9	2,4-Dimethylphenol	2,4-Dimethylphenol
51-28-5	2,4-Dinitrophenol	2,4-Dinitrophenol
121-14-2	2,4-Dinitrotoluene	2,4-Dinitrotoluene
606-20-2	2,6-Dinitrotoluene	2,6-Dinitrotoluene
91-58-7	2-Chloronaphthalene	2-Chloronaphthalene
95-57-8	2-Chlorophenol	2-Chlorophenol
534-52-1	2-Methyl-4,6-dinitrophenol	2-Methyl-4,6-dinitrophenol
91-57-6	2-Methylnaphthalene	2-Methylnaphthalene
88-74-4	2-Nitroaniline	2-Nitroaniline
88-75-5	2-Nitrophenol	2-Nitrophenol
91-94-1	3,3-Dichlorobenzidine	3,3-Dichlorobenzidine
99-09-2	3-Nitroaniline	3-Nitroaniline
101-55-3	4-Bromophenyl-phenylether	4-Bromophenyl-phenylether
59-50-7	4-Chloro-3-methylphenol	4-Chloro-3-methylphenol
106-47-8	4-Chloroaniline	4-Chloroaniline
7005-72-3	4-Chlorophenyl-phenylether	4-Chlorophenyl-phenylether
100-01-6	4-Nitroaniline	4-Nitroaniline
100-02-7	4-Nitrophenol	4-Nitrophenol
83-32-9	Acenaphthene	Acenaphthene
208-96-8	Acenaphthylene	Acenaphthylene
98-86-2	Acetophenone	Acetophenone
120-12-7	Anthracene	Anthracene
1912-24-9	Atrazine	Atrazine
100-52-7	Benzaldehyde	Benzaldehyde
56-55-3	Benzo(a)anthracene	Benzo(a)anthracene
50-32-8	Benzo(a)pyrene	Benzo(a)pyrene
205-99-2	Benzo(b)fluoranthene	Benzo(b)fluoranthene
191-24-2	Benzo(g,h,i)perylene	Benzo(g,h,i)perylene
207-08-9	Benzo(k)fluoranthene	Benzo(k)fluoranthene
92-52-4	Biphenyl	Biphenyl
111-91-1	bis(2-Chloroethoxy)methane	bis(2-Chloroethoxy)methane
111-44-4	bis(2-Chloroethyl)ether	bis(2-Chloroethyl)ether
108-60-1	bis(2-Chloroisopropyl)ether	bis(2-Chloroisopropyl)ether
117-81-7	bis(2-Ethylhexyl)phthalate	bis(2-Ethylhexyl)phthalate
85-68-7	Butylbenzylphthalate	Butylbenzylphthalate
105-60-2	Caprolactam	Caprolactam
86-74-8	Carbazole	Carbazole
218-01-9	Chrysene	Chrysene
53-70-3	Dibenzo(a,h)anthracene	Dibenzo(a,h)anthracene
132-64-9	Dibenzofuran	Dibenzofuran
84-66-2	Diethylphthalate	Diethylphthalate
131-11-3	Dimethylphthalate	Dimethylphthalate
84-74-2	Di-n-Butylphthalate	Di-n-Butylphthalate
117-84-0	Di-n-Octylphthalate	Di-n-Octylphthalate
206-44-0	Fluoranthene	Fluoranthene
86-73-7	Fluorene	Fluorene
118-74-1	Hexachlorobenzene	Hexachlorobenzene
87-68-3	Hexachlorobutadiene	Hexachlorobutadiene
77-47-4	Hexachlorocyclopentadiene	Hexachlorocyclopentadiene
67-72-1	Hexachloroethane	Hexachloroethane
193-39-5	Indeno(1,2,3-cd)pyrene	Indeno(1,2,3-cd)pyrene
78-59-1	Isophorone	Isophorone

Compound Cross Reference Table

SEMIVOLATILES (cont.)

CAS Number	ALS Name	Common Name
108394/106445	mp-Cresol	mp-Cresol
91-20-3	Naphthalene	Naphthalene
98-95-3	Nitrobenzene	Nitrobenzene
621-64-7	N-Nitroso-di-n-propylamine	N-Nitroso-di-n-propylamine
86-30-6	N-Nitrosodiphenylamine	N-Nitrosodiphenylamine
95-48-7	o-Cresol	o-Cresol
87-86-5	Pentachlorophenol	Pentachlorophenol
85-01-8	Phenanthrene	Phenanthrene
108-95-2	Phenol	Phenol
129-00-0	Pyrene	Pyrene

VOLATILE ORGANICS

CAS Number	ALS Name	Common Name
71-55-6	1,1,1-Trichloroethane	1,1,1-Trichloroethane
79-34-5	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane
79-00-5	1,1,2-Trichloroethane	1,1,2-Trichloroethane
75-34-3	1,1-Dichloroethane	1,1-Dichloroethane
75-35-4	1,1-Dichloroethene	1,1-Dichloroethene
87-61-6	1,2,3-Trichlorobenzene	1,2,3-Trichlorobenzene
96-18-4	1,2,3-Trichloropropane	1,2,3-Trichloropropane
120-82-1	1,2,4-Trichlorobenzene	1,2,4-Trichlorobenzene
95-63-6	1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene
96-12-8	1,2-Dibromo-3-chloropropane	1,2-Dibromo-3-chloropropane
106-93-4	1,2-Dibromoethane	1,2-Dibromoethane
95-50-1	1,2-Dichlorobenzene	1,2-Dichlorobenzene
107-06-2	1,2-Dichloroethane	1,2-Dichloroethane
78-87-5	1,2-Dichloropropane	1,2-Dichloropropane
108-67-8	1,3,5-Trimethylbenzene	1,3,5-Trimethylbenzene
541-73-1	1,3-Dichlorobenzene	1,3-Dichlorobenzene
106-46-7	1,4-Dichlorobenzene	1,4-Dichlorobenzene
78-93-3	2-Butanone	2-Butanone
591-78-6	2-Hexanone	2-Hexanone
108-10-1	4-Methyl-2-Pentanone(MIBK)	4-Methyl-2-Pentanone(MIBK)
67-64-1	Acetone	Acetone
71-43-2	Benzene	Benzene
74-97-5	Bromochloromethane	Bromochloromethane
75-27-4	Bromodichloromethane	Bromodichloromethane
75-25-2	Bromoform	Bromoform
74-83-9	Bromomethane	Bromomethane
75-15-0	Carbon Disulfide	Carbon Disulfide
56-23-5	Carbon Tetrachloride	Carbon Tetrachloride
108-90-7	Chlorobenzene	Chlorobenzene
124-48-1	Chlorodibromomethane	Chlorodibromomethane
75-00-3	Chloroethane	Chloroethane
67-66-3	Chloroform	Chloroform
74-87-3	Chloromethane	Chloromethane
156-59-2	cis-1,2-Dichloroethene	cis-1,2-Dichloroethene
10061-01-5	cis-1,3-Dichloropropene	cis-1,3-Dichloropropene
110-82-7	Cyclohexane	Cyclohexane
75-71-8	Dichlorodifluoromethane	Dichlorodifluoromethane
100-41-4	Ethylbenzene	Ethylbenzene
76-13-1	Freon 113	Freon 113
98-82-8	Isopropylbenzene	Isopropylbenzene

Compound Cross Reference Table

VOLATILE ORGANICS (cont.)

CAS Number	ALS Name	Common Name
79-20-9	Methyl acetate	Methyl acetate
108-87-2	Methyl cyclohexane	Methyl cyclohexane
1634-04-4	Methyl t-Butyl Ether	Methyl t-Butyl Ether
75-09-2	Methylene Chloride	Methylene Chloride
108383/106423	mp-Xylene	mp-Xylene
95-47-6	o-Xylene	o-Xylene
100-42-5	Styrene	Styrene
127-18-4	Tetrachloroethene	Tetrachloroethene
108-88-3	Toluene	Toluene
1330-20-7	Total Xylenes	Total Xylenes
156-60-5	trans-1,2-Dichloroethene	trans-1,2-Dichloroethene
10061-02-6	trans-1,3-Dichloropropene	trans-1,3-Dichloropropene
79-01-6	Trichloroethene	Trichloroethene
75-69-4	Trichlorofluoromethane	Trichlorofluoromethane
75-01-4	Vinyl Chloride	Vinyl Chloride

WET CHEMISTRY

CAS Number	ALS Name	Common Name
ACID-T	Acidity, Total	Acidity, Total
ALKT	Alkalinity, Total	Alkalinity, Total
Cl	Chloride	Chloride
NO3	Nitrate-N	Nitrate-N
PH	pH	pH
Cond	Specific Conductance	Specific Conductance
SO4	Sulfate	Sulfate
TDS	Total Dissolved Solids	Total Dissolved Solids
Turb	Turbidity	Turbidity

Detected Results Summary

Client Sample ID	MW-14	Collected	12/10/2024 09:35
Lab Sample ID	3391582001	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.053J	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.019	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.018	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.14	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.14	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	233	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	235	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0026J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	10.2	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	10.6	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	45.0	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	46.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.91	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.94	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	8.0	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	8.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.012J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	70.5	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	71.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Acetophenone	1.7J	ug/L	3.0	0.90	SW846 8270E	#
Naphthalene	2.2	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	0.29J	ug/L	1.5	0.25	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	33	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	813	mg/L	50	50	SM2320B-2011	#
Chloride	108	mg/L	5.0	2.2	SW846 9056A	#
pH	8.13	pH_Units			S4500HB-11	#
Specific Conductance	1640	umhos/cm	5	0.1	SW846 9050A	#
Total Dissolved Solids	2290	mg/L	25	25	SM2540C-15	#
Turbidity	110	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-28	Collected	12/10/2024 10:55
Lab Sample ID	3391582002	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Total	0.015J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.054	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.061	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.087	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.090	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	163	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	165	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	9.5	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	9.7	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	70.8	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	72.8	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.91	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.95	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	14.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	15.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.011J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	67.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	67.7	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Acenaphthene	2.1	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	1.5	ug/L	1.5	0.65	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	2.8	ug/L	1.0	0.23	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	24	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	795	mg/L	50	50	SM2320B-2011	#
Chloride	74.5	mg/L	5.0	2.2	SW846 9056A	#
pH	8.31	pH_Units			S4500HB-11	#
Specific Conductance	1490	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	4.2J	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	826	mg/L	25	25	SM2540C-15	#
Turbidity	110	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-37	Collected	12/10/2024 14:30
Lab Sample ID	3391582003	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.068	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.070	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	135	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	136	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	5.5	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	5.8	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	40.7	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	41.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.1	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.2	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	15.3	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	15.6	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.013J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	41.5	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	42.3	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Acenaphthene	0.64J	ug/L	1.5	0.25	SW846 8270E	#
Carbazole	0.85J	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	1.0J	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	0.55J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	0.52J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	1.1J	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	0.39J	ug/L	1.5	0.25	SW846 8270E	#
Pyrene	0.46J	ug/L	1.5	0.25	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	15	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	481	mg/L	50	50	SM2320B-2011	#
Chloride	55.2	mg/L	5.0	2.2	SW846 9056A	#
pH	8.29	pH_Units			S4500HB-11	#
Specific Conductance	1070	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	82.2	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	678	mg/L	25	25	SM2540C-15	#
Turbidity	70	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-45	Collected	12/10/2024 16:10
Lab Sample ID	3391582004	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.044J	mg/L	0.11	0.036	SW846 6010C	#
Antimony, Total	0.010J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Total	0.0040J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.045	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.045	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	163	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	171	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	2.1	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	2.4	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	34.3	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	34.9	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.72	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.82	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	12.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	13.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	28.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	29.7	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	0.67J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	0.59J	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	60.4	ug/L	3.0	0.90	SW846 8270E	#
Fluorene	0.71J	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	23.3	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	10.4	ug/L	1.5	0.65	SW846 8270E	#
o-Cresol	18.5	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	0.82J	ug/L	1.5	0.25	SW846 8270E	#
Phenol	156	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	27600	ug/L	500	115	SW846 8260D	#
Chloromethane	17.2J	ug/L	50.0	15.5	SW846 8260D	#
Ethylbenzene	27.3J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	413	ug/L	100	26.0	SW846 8260D	#
o-Xylene	180	ug/L	50.0	16.5	SW846 8260D	#
Toluene	2510	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	593	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	25	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	213	mg/L	5	5	SM2320B-2011	#
Chloride	11.4	mg/L	5.0	2.2	SW846 9056A	#
pH	8.04	pH_Units			S4500HB-11	#
Specific Conductance	1090	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	379	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	838	mg/L	25	25	SM2540C-15	#
Turbidity	23	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-17	Collected	12/10/2024 14:20
Lab Sample ID	3391582005	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.090	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.10	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	357	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	358	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0028J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0032J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	21.1	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	21.3	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	52.8	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	53.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.98	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.0	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	14.5	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	14.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	27.8	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	28.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	0.51J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	0.42J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	0.83J	ug/L	1.5	0.25	SW846 8270E	#
Carbazole	0.82J	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	0.38J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	0.86J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	5.8	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	0.51J	ug/L	1.5	0.25	SW846 8270E	#
Pyrene	0.25J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	0.73J	ug/L	1.0	0.23	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	105	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	1050	mg/L	50	50	SM2320B-2011	#
Chloride	23.5	mg/L	5.0	2.2	SW846 9056A	#
pH	8.11	pH_Units			S4500HB-11	#
Specific Conductance	2070	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	206	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1260	mg/L	25	25	SM2540C-15	#
Turbidity	220	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-13	Collected	12/10/2024 15:50
Lab Sample ID	3391582006	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Dissolved	75.5	mg/L	0.56	0.18	SW846 6010C	#
Aluminum, Total	77.6	mg/L	0.40	0.13	SW846 6010C	#
Arsenic, Total	0.019J	mg/L	0.032	0.013	SW846 6010C	#
Barium, Total	0.066	mg/L	0.040	0.013	SW846 6010C	#
Beryllium, Dissolved	0.010J	mg/L	0.022	0.0070	SW846 6010C	#
Beryllium, Total	0.0064J	mg/L	0.016	0.0050	SW846 6010C	#
Cadmium, Total	0.0060J	mg/L	0.0079	0.0026	SW846 6010C	#
Calcium, Dissolved	544	mg/L	0.56	0.18	SW846 6010C	#
Calcium, Total	524	mg/L	0.40	0.13	SW846 6010C	#
Chromium, Dissolved	0.16	mg/L	0.028	0.010	SW846 6010C	#
Chromium, Total	0.16	mg/L	0.020	0.0072	SW846 6010C	#
Cobalt, Dissolved	0.077	mg/L	0.028	0.010	SW846 6010C	#
Cobalt, Total	0.059	mg/L	0.020	0.0072	SW846 6010C	#
Copper, Total	0.016J	mg/L	0.040	0.013	SW846 6010C	#
Iron, Dissolved	231	mg/L	0.33	0.11	SW846 6010C	#
Iron, Total	229	mg/L	0.24	0.079	SW846 6010C	#
Lead, Dissolved	0.85	mg/L	0.033	0.011	SW846 6010C	#
Lead, Total	0.87	mg/L	0.024	0.0079	SW846 6010C	#
Magnesium, Dissolved	46.9	mg/L	0.56	0.18	SW846 6010C	#
Magnesium, Total	47.3	mg/L	0.40	0.13	SW846 6010C	#
Manganese, Dissolved	10.1	mg/L	0.028	0.010	SW846 6010C	#
Manganese, Total	10.3	mg/L	0.020	0.0072	SW846 6010C	#
Nickel, Dissolved	0.063J	mg/L	0.11	0.037	SW846 6010C	#
Nickel, Total	0.083	mg/L	0.079	0.026	SW846 6010C	#
Potassium, Dissolved	3.5	mg/L	2.8	0.90	SW846 6010C	#
Potassium, Total	3.8	mg/L	2.0	0.65	SW846 6010C	#
Sodium, Dissolved	104	mg/L	2.8	0.90	SW846 6010C	#
Sodium, Total	106	mg/L	2.0	0.65	SW846 6010C	#
Vanadium, Dissolved	0.062	mg/L	0.028	0.010	SW846 6010C	#
Vanadium, Total	0.057	mg/L	0.020	0.0072	SW846 6010C	#
Zinc, Dissolved	0.79	mg/L	0.11	0.037	SW846 6010C	#
Zinc, Total	0.77	mg/L	0.079	0.026	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	60.3	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	2.1	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	5990	ug/L	300	90.0	SW846 8270E	#
Carbazole	0.62J	ug/L	3.0	0.25	SW846 8270E	#
Fluorene	0.67J	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	440	ug/L	300	50.0	SW846 8270E	#
Naphthalene	57.1	ug/L	1.5	0.65	SW846 8270E	#
o-Cresol	77.4	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	0.59J	ug/L	1.5	0.25	SW846 8270E	#
Phenol	589J	ug/L	800	50.0	SW846 8270E	#
VOLATILE ORGANICS						
1,3,5-Trimethylbenzene	80.3J	ug/L	200	40.0	SW846 8260D	#
Benzene	629000	ug/L	10000	2300	SW846 8260D	#

Detected Results Summary

Sample - MW-13 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Carbon Disulfide	400	ug/L	200	46.0	SW846 8260D	#
mp-Xylene	2790	ug/L	400	104	SW846 8260D	#
o-Xylene	679	ug/L	200	66.0	SW846 8260D	#
Toluene	72900	ug/L	2500	575	SW846 8260D	#
Total Xylenes	3470	ug/L	600	132	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	832	mg/L	5	5	SM2310B-2011	#
Chloride	24.1	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	0.90J	mg/L	2.5	0.80	SW846 9056A	#
pH	2.44	pH_Units			S4500HB-11	#
Specific Conductance	7190	umhos/cm	50	1	SW846 9050A	#
Sulfate	2310	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	4240	mg/L	25	25	SM2540C-15	#
Turbidity	36	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-12	Collected	12/10/2024 09:15
Lab Sample ID	3391582007	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.041	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.037	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.064	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.065	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	293	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	297	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0027J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0030J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0063J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	2.0	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	2.4	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	124	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	128	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.2	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.3	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	16.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	17.1	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0077J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	134	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	135	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	19.4	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	6.7	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	3.5	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	8.5	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	3.4	ug/L	3.0	0.90	SW846 8270E	#
Anthracene	0.28J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	1.7J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	3.4	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	4.6	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	1.8	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	2.9	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	14.3	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	439	ug/L	6.0	2.6	SW846 8270E	#
o-Cresol	23.0	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	3.5	ug/L	1.5	0.25	SW846 8270E	#
Phenol	26.7	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	0.98J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	4890	ug/L	1000	230	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	64	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	1050	mg/L	50	50	SM2320B-2011	#
Chloride	148	mg/L	5.0	2.2	SW846 9056A	#
pH	8.07	pH_Units			S4500HB-11	#

Detected Results Summary

Sample - MW-12 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Specific Conductance	3090	umhos/cm	50	1	SW846 9050A	#
Sulfate	328	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1730	mg/L	25	25	SM2540C-15	#
Turbidity	35	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-15	Collected	12/10/2024 11:15
Lab Sample ID	3391582008	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.083	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.087	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	78.1	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	79.9	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	6.3	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	6.8	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	65.5	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	67.8	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.87	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.91	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	38.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	39.4	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0077J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	29.1	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	30.0	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	708	ug/L	60.0	10.0	SW846 8270E	#
2-Methylnaphthalene	178	ug/L	30.0	5.0	SW846 8270E	#
Acenaphthene	16.3	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	274	ug/L	30.0	5.0	SW846 8270E	#
Anthracene	15.8	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)pyrene	0.32J	ug/L	1.5	0.26	SW846 8270E	#
Biphenyl	30.6	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	213	ug/L	60.0	5.0	SW846 8270E	#
Chrysene	0.51J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	74.6	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	12.6	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	89.7	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	2040	ug/L	60.0	10.0	SW846 8270E	#
Naphthalene	4430	ug/L	150	65.0	SW846 8270E	#
o-Cresol	1140	ug/L	60.0	10.0	SW846 8270E	#
Phenanthrene	83.2	ug/L	1.5	0.25	SW846 8270E	#
Phenol	1760	ug/L	160	10.0	SW846 8270E	#
Pyrene	9.0	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	61.3	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	47.0J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	23200	ug/L	500	115	SW846 8260D	#
Ethylbenzene	37.8J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	568	ug/L	100	26.0	SW846 8260D	#
o-Xylene	221	ug/L	50.0	16.5	SW846 8260D	#
Styrene	55.4	ug/L	50.0	12.0	SW846 8260D	#
Toluene	2480	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	789	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						

Detected Results Summary

Sample - MW-15 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Acidity, Total	26	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	238	mg/L	5	5	SM2320B-2011	#
Chloride	22.3	mg/L	5.0	2.2	SW846 9056A	#
pH	8.09	pH_Units			S4500HB-11	#
Specific Conductance	1140	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	322	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	778	mg/L	25	25	SM2540C-15	#
Turbidity	31	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-15-Dup	Collected	12/10/2024 11:30
Lab Sample ID	3391582009	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.083	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.086	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	78.1	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	79.3	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	6.4	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	6.8	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	65.8	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	67.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.87	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.90	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	38.0	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	39.4	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	28.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	29.9	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	772	ug/L	30.0	5.0	SW846 8270E	#
2-Methylnaphthalene	185	ug/L	15.0	2.5	SW846 8270E	#
Acenaphthene	16.4	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	249	ug/L	15.0	2.5	SW846 8270E	#
Anthracene	13.8	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	0.74J	ug/L	1.5	0.28	SW846 8270E	#
Biphenyl	30.1	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	218	ug/L	30.0	2.5	SW846 8270E	#
Chrysene	0.48J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	69.6	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	10.7	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	77.8	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	2070	ug/L	30.0	5.0	SW846 8270E	#
Naphthalene	5080	ug/L	300	130	SW846 8270E	#
o-Cresol	1240	ug/L	30.0	5.0	SW846 8270E	#
Phenanthrene	79.6	ug/L	1.5	0.25	SW846 8270E	#
Phenol	1720	ug/L	80.0	5.0	SW846 8270E	#
Pyrene	7.6	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	59.3	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	47.6J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	23100	ug/L	500	115	SW846 8260D	#
Ethylbenzene	33.9J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	530	ug/L	100	26.0	SW846 8260D	#
o-Xylene	212	ug/L	50.0	16.5	SW846 8260D	#
Styrene	53.4	ug/L	50.0	12.0	SW846 8260D	#
Toluene	2300	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	743	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	18	mg/L	5	5	SM2310B-2011	#

Detected Results Summary

Sample - MW-15-Dup (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Alkalinity, Total	242	mg/L	5	5	SM2320B-2011	#
Chloride	22.3	mg/L	5.0	2.2	SW846 9056A	#
pH	8.14	pH_Units			S4500HB-11	#
Specific Conductance	1140	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	318	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	760	mg/L	25	25	SM2540C-15	#
Turbidity	31	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-16	Collected	12/10/2024 14:30
Lab Sample ID	3391582010	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.090	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.093	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	280	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	283	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0022J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	16.7	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	17.1	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	51.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	52.9	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.7	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.7	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	13.8	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	14.1	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.011J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	13.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	13.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	118	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	90.8	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	200	ug/L	30.0	5.0	SW846 8270E	#
Acenaphthylene	7.4	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	8.3	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	0.75J	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.27J	ug/L	1.5	0.26	SW846 8270E	#
Biphenyl	23.2	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	136	ug/L	60.0	5.0	SW846 8270E	#
Chrysene	0.35J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	84.1	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	9.1	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	92.2	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	120	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	3620	ug/L	30.0	13.0	SW846 8270E	#
o-Cresol	146	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	65.6	ug/L	1.5	0.25	SW846 8270E	#
Phenol	201	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	5.8	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	43.4J	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	26.8J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	13100	ug/L	500	115	SW846 8260D	#
Ethylbenzene	34.5J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	344	ug/L	100	26.0	SW846 8260D	#
o-Xylene	141	ug/L	50.0	16.5	SW846 8260D	#
Toluene	217	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	485	ug/L	150	33.0	SW846 8260D	#

Detected Results Summary

Sample - MW-16 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Acidity, Total	41	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	688	mg/L	50	50	SM2320B-2011	#
Chloride	7.1	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	0.97J	mg/L	2.5	0.80	SW846 9056A	#
pH	8.06	pH_Units			S4500HB-11	#
Specific Conductance	1540	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	295	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1060	mg/L	25	25	SM2540C-15	#
Turbidity	180	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-2	Collected	12/10/2024 15:45
Lab Sample ID	3391582011	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.11	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	181	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	185	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	0.79	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.84	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	99.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	103	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.5	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.6	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	19.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	20.1	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	15.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	16.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	1.2J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	214	ug/L	6.0	1.0	SW846 8270E	#
Anthracene	14.3	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	0.54J	ug/L	1.5	0.28	SW846 8270E	#
Carbazole	183	ug/L	12.0	1.0	SW846 8270E	#
Chrysene	0.29J	ug/L	1.5	0.26	SW846 8270E	#
Fluoranthene	13.7	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	144	ug/L	6.0	1.0	SW846 8270E	#
Naphthalene	113	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	114	ug/L	1.5	0.25	SW846 8270E	#
Phenol	9.1	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	9.4	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	13.2J	ug/L	50.0	12.5	SW846 8260D	#
Benzene	4050	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	27.6J	ug/L	50.0	17.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	63	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	872	mg/L	50	50	SM2320B-2011	#
Chloride	11.0	mg/L	5.0	2.2	SW846 9056A	#
pH	8.26	pH_Units			S4500HB-11	#
Specific Conductance	1490	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	17.0	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	836	mg/L	25	25	SM2540C-15	#
Turbidity	11	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	TB-41	Collected	12/10/2024 15:45
Lab Sample ID	3391582012	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS						
Chloromethane	0.38J	ug/L	1.0	0.31	SW846 8260D	#

Results

Client Sample ID	MW-14	Collected	12/10/2024 09:35
Lab Sample ID	3391582001	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Aluminum, Total	0.053J	J,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:43	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Arsenic, Dissolved	0.019	P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Arsenic, Total	0.018	P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 11:39	MSY	E1
Barium, Dissolved	0.14	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Barium, Total	0.14	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Calcium, Dissolved	233	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Calcium, Total	235	5,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Chromium, Total	0.0026J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 11:39	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Iron, Dissolved	10.2	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Iron, Total	10.6	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Magnesium, Dissolved	45.0	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Magnesium, Total	46.5	5,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Manganese, Dissolved	0.91	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Manganese, Total	0.94	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:05	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:35	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Potassium, Dissolved	8.0	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Potassium, Total	8.2	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Selenium, Dissolved	0.012J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Sodium, Dissolved	70.5	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Sodium, Total	71.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:07	MSY	E1

Results

Client Sample ID	MW-14	Collected	12/10/2024 09:35
Lab Sample ID	3391582001	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,4-Dimethylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 05:29	M1O	D
2-Methylnaphthalene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 05:29	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 05:29	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:29	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 05:29	M1O	D
Acenaphthene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Acenaphthylene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Acetophenone	1.7J	J,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 05:29	M1O	D
Anthracene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 05:29	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:29	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 05:29	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 05:29	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 05:29	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:29	M1O	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 05:29	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 05:29	M1O	D
Carbazole	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:29	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 05:29	M1O	D
Dibenzofuran	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:29	M1O	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Fluoranthene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Fluorene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 05:29	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 05:29	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 05:29	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:29	M1O	D
mp-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
Naphthalene	2.2	P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 05:29	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 05:29	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 05:29	M1O	D
o-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 05:29	M1O	D
Phenanthrene	0.29J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Phenol	ND	ND,P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
Pyrene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	87.7%	23 – 131	12/13/2024 05:29	
2-Fluorobiphenyl	321-60-8	79%	24 – 116	12/13/2024 05:29	
2-Fluorophenol	367-12-4	61.3%	10 – 85	12/13/2024 05:29	
Nitrobenzene-d5	4165-60-0	87.5%	32 – 125	12/13/2024 05:29	
Phenol-d5	4165-62-2	47.5%	7 – 56	12/13/2024 05:29	
Terphenyl-d14	98904-43-9	44.4%	41 – 145	12/13/2024 05:29	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.93	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2.0	0.60	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.82	SW846 8260D	1	12/13/2024 15:41	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	1.5	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.38	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.20	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 15:41	TMP	A
2-Butanone	ND	ND,P1	ug/L	10.0	1.8	SW846 8260D	1	12/13/2024 15:41	TMP	A
2-Hexanone	ND	ND,P1	ug/L	5.0	1.3	SW846 8260D	1	12/13/2024 15:41	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	1.5	SW846 8260D	1	12/13/2024 15:41	TMP	A
Acetone	ND	ND,P1	ug/L	10.0	3.1	SW846 8260D	1	12/13/2024 15:41	TMP	A
Benzene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 15:41	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 15:41	TMP	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 15:41	TMP	A
Bromoform	ND	ND,P1	ug/L	1.0	0.40	SW846 8260D	1	12/13/2024 15:41	TMP	A
Bromomethane	ND	ND,P1	ug/L	1.0	0.39	SW846 8260D	1	12/13/2024 15:41	TMP	A
Carbon Disulfide	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 15:41	TMP	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 15:41	TMP	A
Chlorobenzene	ND	ND,P1	ug/L	1.0	0.19	SW846 8260D	1	12/13/2024 15:41	TMP	A
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 15:41	TMP	A
Chloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 15:41	TMP	A
Chloroform	ND	ND,P1	ug/L	1.0	0.21	SW846 8260D	1	12/13/2024 15:41	TMP	A
Chloromethane	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 15:41	TMP	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 15:41	TMP	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 15:41	TMP	A
Cyclohexane	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 15:41	TMP	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 15:41	TMP	A
Ethylbenzene	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 15:41	TMP	A
Freon 113	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 15:41	TMP	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 15:41	TMP	A
Methyl acetate	ND	ND,P1	ug/L	2.0	0.32	SW846 8260D	1	12/13/2024 15:41	TMP	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 15:41	TMP	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 15:41	TMP	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 15:41	TMP	A
mp-Xylene	ND	ND,P1	ug/L	2.0	0.52	SW846 8260D	1	12/13/2024 15:41	TMP	A
o-Xylene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 15:41	TMP	A
Styrene	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 15:41	TMP	A
Tetrachloroethene	ND	ND,P1	ug/L	1.0	0.35	SW846 8260D	1	12/13/2024 15:41	TMP	A
Toluene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 15:41	TMP	A
Total Xylenes	ND	ND,P1	ug/L	3.0	0.66	SW846 8260D	1	12/13/2024 15:41	TMP	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 15:41	TMP	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 15:41	TMP	A
Trichloroethene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 15:41	TMP	A
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 15:41	TMP	A
Vinyl Chloride	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 15:41	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/13/2024 15:41	
4-Bromofluorobenzene	460-00-4	96.7%	79 – 114	12/13/2024 15:41	
Dibromofluoromethane	1868-53-7	97.2%	78 – 116	12/13/2024 15:41	
Toluene-d8	2037-26-5	97.2%	76 – 127	12/13/2024 15:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	33	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	813	3,P1	mg/L	50	50	SM2320B-2011	10	12/16/2024 08:32	KMV	I
Chloride	108	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 18:35	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/11/2024 23:13	J1W	I
pH	8.13	4,P1	pH_Units			S4500HB-11	10	12/16/2024 08:32	KMV	I
Specific Conductance	1640	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	ND	ND,P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 18:35	J1W	I
Total Dissolved Solids	2290	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 15:30	RAG	I
Turbidity	110	P1	NTU	0.30	0.30	SM2130B-2011	1	12/11/2024 14:54	NPF	I

Results

Client Sample ID	MW-28	Collected	12/10/2024 10:55
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Antimony, Dissolved	ND	ND,7,8,9,P1	mg/L	0.022	0.010	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Antimony, Total	0.015J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Arsenic, Dissolved	0.054	P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Arsenic, Total	0.061	P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Barium, Dissolved	0.087	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Barium, Total	0.090	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Calcium, Dissolved	163	10,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Calcium, Total	165	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 11:49	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Iron, Dissolved	9.5	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Iron, Total	9.7	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Magnesium, Dissolved	70.8	11,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Magnesium, Total	72.8	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Manganese, Dissolved	0.91	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Manganese, Total	0.95	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:19	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:36	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Potassium, Dissolved	14.7	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Potassium, Total	15.2	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Selenium, Dissolved	0.011J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Sodium, Dissolved	67.2	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Sodium, Total	67.7	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:12	MSY	E1

Results

Client Sample ID	MW-28	Collected	12/10/2024 10:55
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,4-Dimethylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 05:55	M1O	D
2-Methylnaphthalene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 05:55	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 05:55	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:55	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 05:55	M1O	D
Acenaphthene	2.1	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Acenaphthylene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 05:55	M1O	D
Anthracene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 05:55	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:55	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 05:55	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 05:55	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 05:55	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:55	M1O	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 05:55	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 05:55	M1O	D
Carbazole	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D

Results

Client Sample ID	MW-28	Collected	12/10/2024 10:55
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:55	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 05:55	M1O	D
Dibenzofuran	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:55	M1O	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Fluoranthene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Fluorene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 05:55	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 05:55	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 05:55	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:55	M1O	D
mp-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
Naphthalene	1.5	P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 05:55	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 05:55	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 05:55	M1O	D
o-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 05:55	M1O	D
Phenanthrene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Phenol	ND	ND,P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
Pyrene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	52.9%	23 – 131	12/13/2024 05:55	
2-Fluorobiphenyl	321-60-8	67.4%	24 – 116	12/13/2024 05:55	
2-Fluorophenol	367-12-4	38.1%	10 – 85	12/13/2024 05:55	
Nitrobenzene-d5	4165-60-0	73.3%	32 – 125	12/13/2024 05:55	
Phenol-d5	4165-62-2	34.4%	7 – 56	12/13/2024 05:55	
Terphenyl-d14	98904-43-9	40.7*%	41 – 145	12/13/2024 05:55	6

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.93	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2.0	0.60	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.82	SW846 8260D	1	12/13/2024 16:01	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	1.5	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.38	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.20	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 16:01	TMP	A
2-Butanone	ND	ND,P1	ug/L	10.0	1.8	SW846 8260D	1	12/13/2024 16:01	TMP	A
2-Hexanone	ND	ND,P1	ug/L	5.0	1.3	SW846 8260D	1	12/13/2024 16:01	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	1.5	SW846 8260D	1	12/13/2024 16:01	TMP	A
Acetone	ND	ND,P1	ug/L	10.0	3.1	SW846 8260D	1	12/13/2024 16:01	TMP	A
Benzene	2.8	P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:01	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:01	TMP	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 16:01	TMP	A
Bromoform	ND	ND,P1	ug/L	1.0	0.40	SW846 8260D	1	12/13/2024 16:01	TMP	A
Bromomethane	ND	ND,P1	ug/L	1.0	0.39	SW846 8260D	1	12/13/2024 16:01	TMP	A
Carbon Disulfide	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:01	TMP	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:01	TMP	A
Chlorobenzene	ND	ND,P1	ug/L	1.0	0.19	SW846 8260D	1	12/13/2024 16:01	TMP	A
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 16:01	TMP	A
Chloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:01	TMP	A
Chloroform	ND	ND,P1	ug/L	1.0	0.21	SW846 8260D	1	12/13/2024 16:01	TMP	A
Chloromethane	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:01	TMP	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:01	TMP	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:01	TMP	A
Cyclohexane	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:01	TMP	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:01	TMP	A
Ethylbenzene	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 16:01	TMP	A
Freon 113	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 16:01	TMP	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 16:01	TMP	A
Methyl acetate	ND	ND,P1	ug/L	2.0	0.32	SW846 8260D	1	12/13/2024 16:01	TMP	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 16:01	TMP	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:01	TMP	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 16:01	TMP	A
mp-Xylene	ND	ND,P1	ug/L	2.0	0.52	SW846 8260D	1	12/13/2024 16:01	TMP	A
o-Xylene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:01	TMP	A
Styrene	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:01	TMP	A
Tetrachloroethene	ND	ND,P1	ug/L	1.0	0.35	SW846 8260D	1	12/13/2024 16:01	TMP	A
Toluene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:01	TMP	A
Total Xylenes	ND	ND,P1	ug/L	3.0	0.66	SW846 8260D	1	12/13/2024 16:01	TMP	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 16:01	TMP	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:01	TMP	A
Trichloroethene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:01	TMP	A
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:01	TMP	A
Vinyl Chloride	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 16:01	TMP	A

Results

Client Sample ID	MW-28	Collected	12/10/2024 10:55
Lab Sample ID	3391582002	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/13/2024 16:01	
4-Bromofluorobenzene	460-00-4	98.5%	79 – 114	12/13/2024 16:01	
Dibromofluoromethane	1868-53-7	101%	78 – 116	12/13/2024 16:01	
Toluene-d8	2037-26-5	100%	76 – 127	12/13/2024 16:01	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	24	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	795	3,P1	mg/L	50	50	SM2320B-2011	10	12/18/2024 14:44	KMV	I
Chloride	74.5	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 18:48	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/11/2024 23:26	J1W	I
pH	8.31	4,P1	pH_Units			S4500HB-11	1	12/16/2024 09:32	KMV	I
Specific Conductance	1490	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	4.2J	J,P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 18:48	J1W	I
Total Dissolved Solids	826	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	110	P1	NTU	0.30	0.30	SM2130B-2011	1	12/11/2024 14:54	NPF	I

Results

Client Sample ID	MW-37	Collected	12/10/2024 14:30
Lab Sample ID	3391582003	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:44	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Barium, Dissolved	0.068	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Barium, Total	0.070	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Calcium, Dissolved	135	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Calcium, Total	136	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 11:50	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Iron, Dissolved	5.5	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Iron, Total	5.8	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Magnesium, Dissolved	40.7	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Magnesium, Total	41.7	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Manganese, Dissolved	1.1	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Manganese, Total	1.2	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:56	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:28	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Potassium, Dissolved	15.3	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Potassium, Total	15.6	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Selenium, Dissolved	0.013J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Sodium, Dissolved	41.5	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Sodium, Total	42.3	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:13	MSY	E1

Results

Client Sample ID	MW-37	Collected	12/10/2024 14:30
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,4-Dimethylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 04:04	M1O	D
2-Methylnaphthalene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 04:04	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 04:04	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:04	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 04:04	M1O	D
Acenaphthene	0.64J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Acenaphthylene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 04:04	M1O	D
Anthracene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 04:04	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 04:04	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 04:04	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 04:04	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 04:04	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:04	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 04:04	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 04:04	M1O	D

Results

Client Sample ID	MW-37	Collected	12/10/2024 14:30
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	0.85J	J,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 04:04	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 04:04	M1O	D
Dibenzofuran	1.0J	J,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 04:04	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Fluoranthene	0.55J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Fluorene	0.52J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 04:04	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 04:04	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 04:04	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 04:04	M1O	D
mp-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
Naphthalene	1.1J	J,P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 04:04	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 04:04	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 04:04	M1O	D
o-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 04:04	M1O	D
Phenanthrene	0.39J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Phenol	ND	ND,P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
Pyrene	0.46J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	69.3%	23 – 131	12/13/2024 04:04	
2-Fluorobiphenyl	321-60-8	63%	24 – 116	12/13/2024 04:04	
2-Fluorophenol	367-12-4	38.9%	10 – 85	12/13/2024 04:04	
Nitrobenzene-d5	4165-60-0	64.6%	32 – 125	12/13/2024 04:04	
Phenol-d5	4165-62-2	31.1%	7 – 56	12/13/2024 04:04	
Terphenyl-d14	98904-43-9	43.8%	41 – 145	12/13/2024 04:04	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.93	SW846 8260D	1	12/13/2024 16:21	TMP	A

Results

Client Sample ID	MW-37	Collected	12/10/2024 14:30
Lab Sample ID	3391582003	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2.0	0.60	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.82	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	1.5	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.38	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.20	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 16:21	TMP	A
2-Butanone	ND	ND,P1	ug/L	10.0	1.8	SW846 8260D	1	12/13/2024 16:21	TMP	A
2-Hexanone	ND	ND,P1	ug/L	5.0	1.3	SW846 8260D	1	12/13/2024 16:21	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	1.5	SW846 8260D	1	12/13/2024 16:21	TMP	A
Acetone	ND	ND,P1	ug/L	10.0	3.1	SW846 8260D	1	12/13/2024 16:21	TMP	A
Benzene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:21	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:21	TMP	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 16:21	TMP	A
Bromoform	ND	ND,P1	ug/L	1.0	0.40	SW846 8260D	1	12/13/2024 16:21	TMP	A
Bromomethane	ND	ND,P1	ug/L	1.0	0.39	SW846 8260D	1	12/13/2024 16:21	TMP	A
Carbon Disulfide	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:21	TMP	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:21	TMP	A
Chlorobenzene	ND	ND,P1	ug/L	1.0	0.19	SW846 8260D	1	12/13/2024 16:21	TMP	A
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 16:21	TMP	A
Chloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:21	TMP	A
Chloroform	ND	ND,P1	ug/L	1.0	0.21	SW846 8260D	1	12/13/2024 16:21	TMP	A
Chloromethane	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:21	TMP	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:21	TMP	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:21	TMP	A
Cyclohexane	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:21	TMP	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:21	TMP	A
Ethylbenzene	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 16:21	TMP	A
Freon 113	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 16:21	TMP	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 16:21	TMP	A
Methyl acetate	ND	ND,P1	ug/L	2.0	0.32	SW846 8260D	1	12/13/2024 16:21	TMP	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 16:21	TMP	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:21	TMP	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 16:21	TMP	A
mp-Xylene	ND	ND,P1	ug/L	2.0	0.52	SW846 8260D	1	12/13/2024 16:21	TMP	A
o-Xylene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:21	TMP	A
Styrene	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:21	TMP	A
Tetrachloroethene	ND	ND,P1	ug/L	1.0	0.35	SW846 8260D	1	12/13/2024 16:21	TMP	A
Toluene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:21	TMP	A
Total Xylenes	ND	ND,P1	ug/L	3.0	0.66	SW846 8260D	1	12/13/2024 16:21	TMP	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 16:21	TMP	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:21	TMP	A
Trichloroethene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:21	TMP	A

Results

Client Sample ID	MW-37	Collected	12/10/2024 14:30
Lab Sample ID	3391582003	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:21	TMP	A
Vinyl Chloride	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 16:21	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/13/2024 16:21	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	12/13/2024 16:21	
Dibromofluoromethane	1868-53-7	96.8%	78 – 116	12/13/2024 16:21	
Toluene-d8	2037-26-5	98.7%	76 – 127	12/13/2024 16:21	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	15	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	481	3,P1	mg/L	50	50	SM2320B-2011	10	12/18/2024 14:55	KMV	I
Chloride	55.2	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:01	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/11/2024 23:39	J1W	I
pH	8.29	4,P1	pH_Units			S4500HB-11	1	12/16/2024 09:49	KMV	I
Specific Conductance	1070	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	82.2	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 19:01	J1W	I
Total Dissolved Solids	678	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	70	P1	NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 08:26	NPF	I

Results

Client Sample ID	MW-45	Collected	12/10/2024 16:10
Lab Sample ID	3391582004	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Aluminum, Total	0.044J	J,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:45	MSY	G1
Antimony, Total	0.010J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Arsenic, Total	0.0040J	J,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Barium, Dissolved	0.045	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Barium, Total	0.045	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Calcium, Dissolved	163	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Calcium, Total	171	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 11:51	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Iron, Dissolved	2.1	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Iron, Total	2.4	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Magnesium, Dissolved	34.3	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Magnesium, Total	34.9	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Manganese, Dissolved	0.72	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Manganese, Total	0.82	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:06	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:29	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Potassium, Dissolved	12.7	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Potassium, Total	13.0	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Sodium, Dissolved	28.2	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Sodium, Total	29.7	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:19	MSY	E1

Results

Client Sample ID	MW-45	Collected	12/10/2024 16:10
Lab Sample ID	3391582004	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,4-Dimethylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 05:42	M1O	D
2-Methylnaphthalene	0.67J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 05:42	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 05:42	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:42	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 05:42	M1O	D
Acenaphthene	0.59J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Acenaphthylene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Acetophenone	60.4	P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 05:42	M1O	D
Anthracene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 05:42	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:42	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 05:42	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 05:42	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 05:42	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:42	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 05:42	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 05:42	M1O	D

Results

Client Sample ID	MW-45	Collected	12/10/2024 16:10
Lab Sample ID	3391582004	Lab Receipt	12/11/2024 09:21

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:42	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 05:42	M1O	D
Dibenzofuran	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:42	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Fluoranthene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Fluorene	0.71J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 05:42	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 05:42	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 05:42	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:42	M1O	D
mp-Cresol	23.3	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
Naphthalene	10.4	P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 05:42	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 05:42	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 05:42	M1O	D
o-Cresol	18.5	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 05:42	M1O	D
Phenanthrene	0.82J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Phenol	156	P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
Pyrene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	71.3%	23 – 131	12/13/2024 05:42	
2-Fluorobiphenyl	321-60-8	71.4%	24 – 116	12/13/2024 05:42	
2-Fluorophenol	367-12-4	44.1%	10 – 85	12/13/2024 05:42	
Nitrobenzene-d5	4165-60-0	79.2%	32 – 125	12/13/2024 05:42	
Phenol-d5	4165-62-2	39.1%	7 – 56	12/13/2024 05:42	
Terphenyl-d14	98904-43-9	41.1%	41 – 145	12/13/2024 05:42	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	100	46.5	SW846 8260D	50	12/17/2024 05:33	PDK	A

Results

Client Sample ID	MW-45	Collected	12/10/2024 16:10
Lab Sample ID	3391582004	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,3-Trichloropropane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	100	41.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	350	75.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	50.0	19.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	50.0	10.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
2-Butanone	ND	ND,P1	ug/L	500	90.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
2-Hexanone	ND	ND,P1	ug/L	250	65.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	250	75.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Acetone	ND	ND,P1	ug/L	500	155	SW846 8260D	50	12/17/2024 05:33	PDK	A
Benzene	27600	P1	ug/L	500	115	SW846 8260D	500	12/19/2024 13:41	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Bromoform	ND	ND,P1	ug/L	50.0	20.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Bromomethane	ND	ND,P1	ug/L	50.0	19.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	50.0	9.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Chloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Chloroform	ND	ND,P1	ug/L	50.0	10.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Chloromethane	17.2J	J,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Cyclohexane	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Ethylbenzene	27.3J	J,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Freon 113	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Methyl acetate	ND	ND,P1	ug/L	100	16.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
mp-Xylene	413	P1	ug/L	100	26.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
o-Xylene	180	P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Styrene	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Tetrachloroethene	ND	ND,P1	ug/L	50.0	17.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Toluene	2510	P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Total Xylenes	593	P1	ug/L	150	33.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Trichloroethene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:33	PDK	A

Results

Client Sample ID	MW-45	Collected	12/10/2024 16:10
Lab Sample ID	3391582004	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Trichlorofluoromethane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 05:33	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/17/2024 05:33	
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	12/19/2024 13:41	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	12/17/2024 05:33	
4-Bromofluorobenzene	460-00-4	98.4%	79 – 114	12/19/2024 13:41	
Dibromofluoromethane	1868-53-7	99.1%	78 – 116	12/17/2024 05:33	
Dibromofluoromethane	1868-53-7	97.6%	78 – 116	12/19/2024 13:41	
Toluene-d8	2037-26-5	100%	76 – 127	12/17/2024 05:33	
Toluene-d8	2037-26-5	99.1%	76 – 127	12/19/2024 13:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	25	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	213	3,P1	mg/L	5	5	SM2320B-2011	1	12/16/2024 10:01	KMV	I
Chloride	11.4	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:14	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/11/2024 23:52	J1W	I
pH	8.04	4,P1	pH_Units			S4500HB-11	1	12/16/2024 10:01	KMV	I
Specific Conductance	1090	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	379	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 19:14	J1W	I
Total Dissolved Solids	838	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	23	P1	NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 08:26	NPF	I

Results

Client Sample ID	MW-17	Collected	12/10/2024 14:20
Lab Sample ID	3391582005	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:46	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Arsenic, Dissolved	0.090	P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Arsenic, Total	0.10	P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Barium, Dissolved	0.12	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Barium, Total	0.12	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Calcium, Dissolved	357	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Calcium, Total	358	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Chromium, Dissolved	0.0028J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Chromium, Total	0.0032J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 11:52	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Iron, Dissolved	21.1	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Iron, Total	21.3	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Magnesium, Dissolved	52.8	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Magnesium, Total	53.7	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Manganese, Dissolved	0.98	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Manganese, Total	1.0	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:00	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:43	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Potassium, Dissolved	14.5	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Potassium, Total	14.6	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Sodium, Dissolved	27.8	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Sodium, Total	28.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:20	MSY	E1

Results

Client Sample ID	MW-17	Collected	12/10/2024 14:20
Lab Sample ID	3391582005	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,4-Dimethylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 03:40	M1O	D
2-Methylnaphthalene	0.51J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 03:40	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 03:40	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 03:40	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 03:40	M1O	D
Acenaphthene	0.42J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Acenaphthylene	0.83J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 03:40	M1O	D
Anthracene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 03:40	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 03:40	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 03:40	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 03:40	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 03:40	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 03:40	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 03:40	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 03:40	M1O	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	0.82J	J,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 03:40	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 03:40	M1O	D
Dibenzofuran	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 03:40	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Fluoranthene	0.38J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Fluorene	0.86J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 03:40	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 03:40	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 03:40	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 03:40	M1O	D
mp-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
Naphthalene	5.8	P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 03:40	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 03:40	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 03:40	M1O	D
o-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 03:40	M1O	D
Phenanthrene	0.51J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Phenol	ND	ND,P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
Pyrene	0.25J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	71.7%	23 – 131	12/13/2024 03:40	
2-Fluorobiphenyl	321-60-8	68.8%	24 – 116	12/13/2024 03:40	
2-Fluorophenol	367-12-4	39.6%	10 – 85	12/13/2024 03:40	
Nitrobenzene-d5	4165-60-0	69.7%	32 – 125	12/13/2024 03:40	
Phenol-d5	4165-62-2	34.7%	7 – 56	12/13/2024 03:40	
Terphenyl-d14	98904-43-9	47.3%	41 – 145	12/13/2024 03:40	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.93	SW846 8260D	1	12/13/2024 16:40	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2.0	0.60	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.82	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	1.5	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.38	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.20	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 16:40	TMP	A
2-Butanone	ND	ND,P1	ug/L	10.0	1.8	SW846 8260D	1	12/13/2024 16:40	TMP	A
2-Hexanone	ND	ND,P1	ug/L	5.0	1.3	SW846 8260D	1	12/13/2024 16:40	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	1.5	SW846 8260D	1	12/13/2024 16:40	TMP	A
Acetone	ND	ND,P1	ug/L	10.0	3.1	SW846 8260D	1	12/13/2024 16:40	TMP	A
Benzene	0.73J	J,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:40	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:40	TMP	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 16:40	TMP	A
Bromoform	ND	ND,P1	ug/L	1.0	0.40	SW846 8260D	1	12/13/2024 16:40	TMP	A
Bromomethane	ND	ND,P1	ug/L	1.0	0.39	SW846 8260D	1	12/13/2024 16:40	TMP	A
Carbon Disulfide	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:40	TMP	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:40	TMP	A
Chlorobenzene	ND	ND,P1	ug/L	1.0	0.19	SW846 8260D	1	12/13/2024 16:40	TMP	A
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 16:40	TMP	A
Chloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:40	TMP	A
Chloroform	ND	ND,P1	ug/L	1.0	0.21	SW846 8260D	1	12/13/2024 16:40	TMP	A
Chloromethane	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:40	TMP	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:40	TMP	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:40	TMP	A
Cyclohexane	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:40	TMP	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:40	TMP	A
Ethylbenzene	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 16:40	TMP	A
Freon 113	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 16:40	TMP	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 16:40	TMP	A
Methyl acetate	ND	ND,P1	ug/L	2.0	0.32	SW846 8260D	1	12/13/2024 16:40	TMP	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 16:40	TMP	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:40	TMP	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 16:40	TMP	A
mp-Xylene	ND	ND,P1	ug/L	2.0	0.52	SW846 8260D	1	12/13/2024 16:40	TMP	A
o-Xylene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:40	TMP	A
Styrene	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:40	TMP	A
Tetrachloroethene	ND	ND,P1	ug/L	1.0	0.35	SW846 8260D	1	12/13/2024 16:40	TMP	A
Toluene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:40	TMP	A
Total Xylenes	ND	ND,P1	ug/L	3.0	0.66	SW846 8260D	1	12/13/2024 16:40	TMP	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 16:40	TMP	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:40	TMP	A
Trichloroethene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:40	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:40	TMP	A
Vinyl Chloride	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 16:40	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/13/2024 16:40	
4-Bromofluorobenzene	460-00-4	98.4%	79 – 114	12/13/2024 16:40	
Dibromofluoromethane	1868-53-7	99.5%	78 – 116	12/13/2024 16:40	
Toluene-d8	2037-26-5	98.7%	76 – 127	12/13/2024 16:40	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	105	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	1050	3,P1	mg/L	50	50	SM2320B-2011	10	12/18/2024 15:06	KMV	I
Chloride	23.5	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:27	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 00:05	J1W	I
pH	8.11	4,P1	pH_Units			S4500HB-11	1	12/16/2024 10:13	KMV	I
Specific Conductance	2070	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	206	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 19:27	J1W	I
Total Dissolved Solids	1260	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	220	P1	NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 08:26	NPF	I

Results

Client Sample ID	MW-13	Collected	12/10/2024 15:50
Lab Sample ID	3391582006	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	75.5	P1	mg/L	0.56	0.18	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Aluminum, Total	77.6	P1	mg/L	0.40	0.13	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.11	0.050	SW846 6010C	5	01/03/2025 10:50	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.079	0.026	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.045	0.015	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Arsenic, Total	0.019J	J,P1	mg/L	0.032	0.013	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Barium, Dissolved	ND	ND,P1	mg/L	0.056	0.018	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Barium, Total	0.066	P1	mg/L	0.040	0.013	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Beryllium, Dissolved	0.010J	J,P1	mg/L	0.022	0.0070	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Beryllium, Total	0.0064J	J,P1	mg/L	0.016	0.0050	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.011	0.0037	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Cadmium, Total	0.0060J	J,P1	mg/L	0.0079	0.0026	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Calcium, Dissolved	544	P1	mg/L	0.56	0.18	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Calcium, Total	524	P1	mg/L	0.40	0.13	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Chromium, Dissolved	0.16	P1	mg/L	0.028	0.010	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Chromium, Total	0.16	P1	mg/L	0.020	0.0072	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Cobalt, Dissolved	0.077	P1	mg/L	0.028	0.010	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Cobalt, Total	0.059	P1	mg/L	0.020	0.0072	SW846 6010C	2	12/30/2024 11:58	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.056	0.018	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Copper, Total	0.016J	J,P1	mg/L	0.040	0.013	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Iron, Dissolved	231	P1	mg/L	0.33	0.11	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Iron, Total	229	P1	mg/L	0.24	0.079	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Lead, Dissolved	0.85	P1	mg/L	0.033	0.011	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Lead, Total	0.87	P1	mg/L	0.024	0.0079	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Magnesium, Dissolved	46.9	P1	mg/L	0.56	0.18	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Magnesium, Total	47.3	P1	mg/L	0.40	0.13	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Manganese, Dissolved	10.1	P1	mg/L	0.028	0.010	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Manganese, Total	10.3	P1	mg/L	0.020	0.0072	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:07	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:32	AJN	E2
Nickel, Dissolved	0.063J	J,P1	mg/L	0.11	0.037	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Nickel, Total	0.083	P1	mg/L	0.079	0.026	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Potassium, Dissolved	3.5	P1	mg/L	2.8	0.90	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Potassium, Total	3.8	P1	mg/L	2.0	0.65	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.11	0.037	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.079	0.026	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.022	0.0070	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.016	0.0050	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Sodium, Dissolved	104	P1	mg/L	2.8	0.90	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Sodium, Total	106	P1	mg/L	2.0	0.65	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.11	0.037	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.079	0.026	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Vanadium, Dissolved	0.062	P1	mg/L	0.028	0.010	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Vanadium, Total	0.057	P1	mg/L	0.020	0.0072	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Zinc, Dissolved	0.79	P1	mg/L	0.11	0.037	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Zinc, Total	0.77	P1	mg/L	0.079	0.026	SW846 6010C	2	12/20/2024 10:21	MSY	E1

Results

Client Sample ID	MW-13	Collected	12/10/2024 15:50
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,4-Dimethylphenol	60.3	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 05:17	M1O	D
2-Methylnaphthalene	2.1	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 05:17	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 05:17	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:17	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 05:17	M1O	D
Acenaphthene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Acenaphthylene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Acetophenone	5990	P1	ug/L	300	90.0	SW846 8270E	100	12/13/2024 22:11	CGS	D
Anthracene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 05:17	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:17	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 05:17	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 05:17	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 05:17	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:17	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 05:17	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 05:17	M1O	D

Results

Client Sample ID	MW-13	Collected	12/10/2024 15:50
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	0.62J	J,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:17	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 05:17	M1O	D
Dibenzofuran	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:17	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Fluoranthene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Fluorene	0.67J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 05:17	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 05:17	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 05:17	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:17	M1O	D
mp-Cresol	440	P1	ug/L	300	50.0	SW846 8270E	100	12/13/2024 22:11	CGS	D
Naphthalene	57.1	P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 05:17	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 05:17	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 05:17	M1O	D
o-Cresol	77.4	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 05:17	M1O	D
Phenanthrene	0.59J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Phenol	589J	J,P1	ug/L	800	50.0	SW846 8270E	100	12/13/2024 22:11	CGS	D
Pyrene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	70%	23 – 131	12/13/2024 05:17	
2,4,6-Tribromophenol	118-79-6	82.6%	23 – 131	12/13/2024 22:11	
2-Fluorobiphenyl	321-60-8	69.5%	24 – 116	12/13/2024 05:17	
2-Fluorobiphenyl	321-60-8	114%	24 – 116	12/13/2024 22:11	
2-Fluorophenol	367-12-4	79.3%	10 – 85	12/13/2024 05:17	
2-Fluorophenol	367-12-4	167*%	10 – 85	12/13/2024 22:11	15
Nitrobenzene-d5	4165-60-0	87.8%	32 – 125	12/13/2024 05:17	
Nitrobenzene-d5	4165-60-0	112%	32 – 125	12/13/2024 22:11	
Phenol-d5	4165-62-2	40.8%	7 – 56	12/13/2024 05:17	
Phenol-d5	4165-62-2	63*%	7 – 56	12/13/2024 22:11	16
Terphenyl-d14	98904-43-9	43%	41 – 145	12/13/2024 05:17	
Terphenyl-d14	98904-43-9	0*%	41 – 145	12/13/2024 22:11	17

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	MW-13	Collected	12/10/2024 15:50
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	200	44.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	200	68.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	200	66.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	200	56.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	200	58.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	400	186	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	400	120	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	400	164	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	200	50.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	1400	300	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	200	56.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	200	76.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	200	64.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	200	48.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,3,5-Trimethylbenzene	80.3J	J,P1	ug/L	200	40.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	200	50.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	200	54.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
2-Butanone	ND	ND,P1	ug/L	2000	360	SW846 8260D	200	12/17/2024 06:55	PDK	A
2-Hexanone	ND	ND,P1	ug/L	1000	260	SW846 8260D	200	12/17/2024 06:55	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	1000	300	SW846 8260D	200	12/17/2024 06:55	PDK	A
Acetone	ND	ND,P1	ug/L	2000	620	SW846 8260D	200	12/17/2024 06:55	PDK	A
Benzene	629000	P1	ug/L	10000	2300	SW846 8260D	10000	12/23/2024 16:03	ILY	A
Bromochloromethane	ND	ND,P1	ug/L	200	64.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	200	54.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Bromoform	ND	ND,P1	ug/L	200	80.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Bromomethane	ND	ND,P1	ug/L	200	78.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Carbon Disulfide	400	P1	ug/L	200	46.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	200	62.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	200	38.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	200	90.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Chloroethane	ND	ND,P1	ug/L	200	66.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Chloroform	ND	ND,P1	ug/L	200	42.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Chloromethane	ND	ND,P1	ug/L	200	62.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	200	64.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	200	62.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Cyclohexane	ND	ND,P1	ug/L	200	58.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	200	66.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Ethylbenzene	ND	ND,P1	ug/L	200	68.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Freon 113	ND	ND,P1	ug/L	200	52.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	200	44.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Methyl acetate	ND	ND,P1	ug/L	400	64.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	200	60.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	200	66.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	200	90.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
mp-Xylene	2790	P1	ug/L	400	104	SW846 8260D	200	12/17/2024 06:55	PDK	A
o-Xylene	679	P1	ug/L	200	66.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Styrene	ND	ND,P1	ug/L	200	48.0	SW846 8260D	200	12/17/2024 06:55	PDK	A

Results

Client Sample ID	MW-13	Collected	12/10/2024 15:50
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND,P1	ug/L	200	70.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Toluene	72900	P1	ug/L	2500	575	SW846 8260D	2500	12/19/2024 15:04	TMP	A
Total Xylenes	3470	P1	ug/L	600	132	SW846 8260D	200	12/17/2024 06:55	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	200	52.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	200	58.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Trichloroethene	ND	ND,P1	ug/L	200	66.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	200	48.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	200	60.0	SW846 8260D	200	12/17/2024 06:55	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/23/2024 16:03	
1,2-Dichloroethane-d4	17060-07-0	97.3%	62 – 133	12/17/2024 06:55	
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/19/2024 15:04	
4-Bromofluorobenzene	460-00-4	97.8%	79 – 114	12/23/2024 16:03	
4-Bromofluorobenzene	460-00-4	97.7%	79 – 114	12/17/2024 06:55	
4-Bromofluorobenzene	460-00-4	95.4%	79 – 114	12/19/2024 15:04	
Dibromofluoromethane	1868-53-7	93.8%	78 – 116	12/23/2024 16:03	
Dibromofluoromethane	1868-53-7	101%	78 – 116	12/17/2024 06:55	
Dibromofluoromethane	1868-53-7	96.1%	78 – 116	12/19/2024 15:04	
Toluene-d8	2037-26-5	97.2%	76 – 127	12/23/2024 16:03	
Toluene-d8	2037-26-5	96.6%	76 – 127	12/17/2024 06:55	
Toluene-d8	2037-26-5	97.5%	76 – 127	12/19/2024 15:04	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	832	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	ND	ND,3,P1	mg/L	50	50	SM2320B-2011	10	12/16/2024 16:07	KMV	I
Chloride	24.1	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:40	J1W	I
Nitrate-N	0.90J	J,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 00:18	J1W	I
pH	2.44	4,P1	pH_Units			S4500HB-11	10	12/16/2024 16:07	KMV	I
Specific Conductance	7190	P1	umhos/cm	50	1	SW846 9050A	10	12/13/2024 10:41	KMV	I
Sulfate	2310	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 19:40	J1W	I
Total Dissolved Solids	4240	P1	mg/L	25	25	SM2540C-15	1	12/13/2024 16:45	RAG	I
Turbidity	36	P1	NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 08:26	NPF	I

Results

Client Sample ID	MW-12	Collected	12/10/2024 09:15
Lab Sample ID	3391582007	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:51	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Arsenic, Dissolved	0.041	P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Arsenic, Total	0.037	P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Barium, Dissolved	0.064	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Barium, Total	0.065	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Calcium, Dissolved	293	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Calcium, Total	297	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Chromium, Dissolved	0.0027J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Chromium, Total	0.0030J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 11:59	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Copper, Total	0.0063J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Iron, Dissolved	2.0	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Iron, Total	2.4	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Magnesium, Dissolved	124	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Magnesium, Total	128	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Manganese, Dissolved	1.2	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Manganese, Total	1.3	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:11	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:39	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Potassium, Dissolved	16.7	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Potassium, Total	17.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Selenium, Dissolved	0.0077J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Sodium, Dissolved	134	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Sodium, Total	135	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 10:51	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 11:59	MSY	E1

Results

Client Sample ID	MW-12	Collected	12/10/2024 09:15
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,4-Dimethylphenol	19.4	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 05:04	M1O	D
2-Methylnaphthalene	6.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 05:04	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 05:04	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:04	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 05:04	M1O	D
Acenaphthene	3.5	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Acenaphthylene	8.5	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Acetophenone	3.4	P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 05:04	M1O	D
Anthracene	0.28J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 05:04	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:04	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 05:04	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 05:04	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 05:04	M1O	D
Biphenyl	1.7J	J,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:04	M1O	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 05:04	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 05:04	M1O	D
Carbazole	3.4	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D

Results

Client Sample ID	MW-12	Collected	12/10/2024 09:15
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:04	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 05:04	M1O	D
Dibenzofuran	4.6	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:04	M1O	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Fluoranthene	1.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Fluorene	2.9	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 05:04	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 05:04	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 05:04	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:04	M1O	D
mp-Cresol	14.3	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
Naphthalene	439	P1	ug/L	6.0	2.6	SW846 8270E	4	12/13/2024 21:48	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 05:04	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 05:04	M1O	D
o-Cresol	23.0	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 05:04	M1O	D
Phenanthrene	3.5	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Phenol	26.7	P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
Pyrene	0.98J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	69.7%	23 – 131	12/13/2024 05:04	
2,4,6-Tribromophenol	118-79-6	60.6%	23 – 131	12/13/2024 21:48	
2-Fluorobiphenyl	321-60-8	65.6%	24 – 116	12/13/2024 05:04	
2-Fluorobiphenyl	321-60-8	62.7%	24 – 116	12/13/2024 21:48	
2-Fluorophenol	367-12-4	52.7%	10 – 85	12/13/2024 05:04	
2-Fluorophenol	367-12-4	46.9%	10 – 85	12/13/2024 21:48	
Nitrobenzene-d5	4165-60-0	71.4%	32 – 125	12/13/2024 05:04	
Nitrobenzene-d5	4165-60-0	61.9%	32 – 125	12/13/2024 21:48	
Phenol-d5	4165-62-2	42.3%	7 – 56	12/13/2024 05:04	
Phenol-d5	4165-62-2	38.5%	7 – 56	12/13/2024 21:48	
Terphenyl-d14	98904-43-9	27.8*%	41 – 145	12/13/2024 05:04	19
Terphenyl-d14	98904-43-9	26.3*%	41 – 145	12/13/2024 21:48	18

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1000	220	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1000	340	SW846 8260D	1000	12/13/2024 17:00	TMP	A

Results

Client Sample ID	MW-12	Collected	12/10/2024 09:15
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1000	330	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1000	280	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1000	290	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2000	930	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2000	600	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2000	820	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1000	250	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7000	1500	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1000	280	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1000	380	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1000	320	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1000	240	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1000	200	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1000	250	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1000	270	SW846 8260D	1000	12/13/2024 17:00	TMP	A
2-Butanone	ND	ND,P1	ug/L	10000	1800	SW846 8260D	1000	12/13/2024 17:00	TMP	A
2-Hexanone	ND	ND,P1	ug/L	5000	1300	SW846 8260D	1000	12/13/2024 17:00	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5000	1500	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Acetone	ND	ND,P1	ug/L	10000	3100	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Benzene	4890	P1	ug/L	1000	230	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	1000	320	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Bromodichloromethane	ND	ND,P1	ug/L	1000	270	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Bromoform	ND	ND,P1	ug/L	1000	400	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Bromomethane	ND	ND,P1	ug/L	1000	390	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Carbon Disulfide	ND	ND,P1	ug/L	1000	230	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1000	310	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Chlorobenzene	ND	ND,P1	ug/L	1000	190	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Chlorodibromomethane	ND	ND,P1	ug/L	1000	450	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Chloroethane	ND	ND,P1	ug/L	1000	330	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Chloroform	ND	ND,P1	ug/L	1000	210	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Chloromethane	ND	ND,P1	ug/L	1000	310	SW846 8260D	1000	12/13/2024 17:00	TMP	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1000	320	SW846 8260D	1000	12/13/2024 17:00	TMP	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1000	310	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Cyclohexane	ND	ND,P1	ug/L	1000	290	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1000	330	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Ethylbenzene	ND	ND,P1	ug/L	1000	340	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Freon 113	ND	ND,P1	ug/L	1000	260	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Isopropylbenzene	ND	ND,P1	ug/L	1000	220	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Methyl acetate	ND	ND,P1	ug/L	2000	320	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Methyl cyclohexane	ND	ND,P1	ug/L	1000	300	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1000	330	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Methylene Chloride	ND	ND,P1	ug/L	1000	450	SW846 8260D	1000	12/13/2024 17:00	TMP	A
mp-Xylene	ND	ND,P1	ug/L	2000	520	SW846 8260D	1000	12/13/2024 17:00	TMP	A
o-Xylene	ND	ND,P1	ug/L	1000	330	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Styrene	ND	ND,P1	ug/L	1000	240	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Tetrachloroethene	ND	ND,P1	ug/L	1000	350	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Toluene	ND	ND,P1	ug/L	1000	230	SW846 8260D	1000	12/13/2024 17:00	TMP	A

Results

Client Sample ID	MW-12	Collected	12/10/2024 09:15
Lab Sample ID	3391582007	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	ND	ND,P1	ug/L	3000	660	SW846 8260D	1000	12/13/2024 17:00	TMP	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1000	260	SW846 8260D	1000	12/13/2024 17:00	TMP	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1000	290	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Trichloroethene	ND	ND,P1	ug/L	1000	330	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Trichlorofluoromethane	ND	ND,P1	ug/L	1000	240	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Vinyl Chloride	ND	ND,P1	ug/L	1000	300	SW846 8260D	1000	12/13/2024 17:00	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/13/2024 17:00	
4-Bromofluorobenzene	460-00-4	97.4%	79 – 114	12/13/2024 17:00	
Dibromofluoromethane	1868-53-7	97.6%	78 – 116	12/13/2024 17:00	
Toluene-d8	2037-26-5	98.4%	76 – 127	12/13/2024 17:00	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	64	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	1050	3,P1	mg/L	50	50	SM2320B-2011	10	12/16/2024 16:20	KMV	I
Chloride	148	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:53	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 00:31	J1W	I
pH	8.07	4,P1	pH_Units			S4500HB-11	10	12/16/2024 16:20	KMV	I
Specific Conductance	3090	P1	umhos/cm	50	1	SW846 9050A	10	12/13/2024 10:41	KMV	I
Sulfate	328	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 19:53	J1W	I
Total Dissolved Solids	1730	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	35	P1	NTU	0.30	0.30	SM2130B-2011	1	12/11/2024 14:54	NPF	I

Results

Client Sample ID	MW-15	Collected	12/10/2024 11:15
Lab Sample ID	3391582008	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Barium, Dissolved	0.083	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Barium, Total	0.087	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Calcium, Dissolved	78.1	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Calcium, Total	79.9	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 12:00	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Iron, Dissolved	6.3	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Iron, Total	6.8	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Magnesium, Dissolved	65.5	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Magnesium, Total	67.8	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Manganese, Dissolved	0.87	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Manganese, Total	0.91	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:09	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:42	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Potassium, Dissolved	38.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Potassium, Total	39.4	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Selenium, Dissolved	0.0077J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Sodium, Dissolved	29.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Sodium, Total	30.0	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:23	MSY	E1

Results

Client Sample ID	MW-15	Collected	12/10/2024 11:15
Lab Sample ID	3391582008	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,4-Dimethylphenol	708	P1	ug/L	60.0	10.0	SW846 8270E	20	12/13/2024 22:13	CGS	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 06:20	M1O	D
2-Methylnaphthalene	178	P1	ug/L	30.0	5.0	SW846 8270E	20	12/13/2024 22:13	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 06:20	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 06:20	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 06:20	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 06:20	M1O	D
Acenaphthene	16.3	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Acenaphthylene	274	P1	ug/L	30.0	5.0	SW846 8270E	20	12/13/2024 22:13	CGS	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 06:20	M1O	D
Anthracene	15.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 06:20	M1O	D
Benzo(a)pyrene	0.32J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 06:20	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 06:20	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 06:20	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 06:20	M1O	D
Biphenyl	30.6	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 06:20	M1O	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 06:20	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 06:20	M1O	D
Carbazole	213	P1	ug/L	60.0	5.0	SW846 8270E	20	12/13/2024 22:13	CGS	D

Results

Client Sample ID	MW-15	Collected	12/10/2024 11:15
Lab Sample ID	3391582008	Lab Receipt	12/11/2024 09:21

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.51J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 06:20	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 06:20	M1O	D
Dibenzofuran	74.6	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 06:20	M1O	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Fluoranthene	12.6	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Fluorene	89.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 06:20	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 06:20	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 06:20	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 06:20	M1O	D
mp-Cresol	2040	P1	ug/L	60.0	10.0	SW846 8270E	20	12/13/2024 22:13	CGS	D
Naphthalene	4430	P1	ug/L	150	65.0	SW846 8270E	100	12/14/2024 03:25	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 06:20	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 06:20	M1O	D
o-Cresol	1140	P1	ug/L	60.0	10.0	SW846 8270E	20	12/13/2024 22:13	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 06:20	M1O	D
Phenanthrene	83.2	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Phenol	1760	P1	ug/L	160	10.0	SW846 8270E	20	12/13/2024 22:13	CGS	D
Pyrene	9.0	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	65.3%	23 – 131	12/13/2024 06:20	
2,4,6-Tribromophenol	118-79-6	57.6%	23 – 131	12/13/2024 22:13	
2,4,6-Tribromophenol	118-79-6	67.9%	23 – 131	12/14/2024 03:25	
2-Fluorobiphenyl	321-60-8	66.5%	24 – 116	12/13/2024 06:20	
2-Fluorobiphenyl	321-60-8	69.7%	24 – 116	12/13/2024 22:13	
2-Fluorophenol	367-12-4	44.4%	10 – 85	12/13/2024 06:20	
2-Fluorophenol	367-12-4	43.2%	10 – 85	12/13/2024 22:13	
Nitrobenzene-d5	4165-60-0	79.8%	32 – 125	12/13/2024 06:20	
Nitrobenzene-d5	4165-60-0	75.8%	32 – 125	12/13/2024 22:13	
Phenol-d5	4165-62-2	39.5%	7 – 56	12/13/2024 06:20	
Phenol-d5	4165-62-2	37.1%	7 – 56	12/13/2024 22:13	
Terphenyl-d14	98904-43-9	46%	41 – 145	12/13/2024 06:20	
Terphenyl-d14	98904-43-9	37.6*%	41 – 145	12/13/2024 22:13	20

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 05:54	PDK	A

Results

Client Sample ID	MW-15	Collected	12/10/2024 11:15
Lab Sample ID	3391582008	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	100	46.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	100	41.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2,4-Trimethylbenzene	61.3	P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	350	75.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	50.0	19.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,3,5-Trimethylbenzene	47.0J	J,P1	ug/L	50.0	10.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
2-Butanone	ND	ND,P1	ug/L	500	90.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
2-Hexanone	ND	ND,P1	ug/L	250	65.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	250	75.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Acetone	ND	ND,P1	ug/L	500	155	SW846 8260D	50	12/17/2024 05:54	PDK	A
Benzene	23200	P1	ug/L	500	115	SW846 8260D	500	12/19/2024 14:03	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Bromoform	ND	ND,P1	ug/L	50.0	20.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Bromomethane	ND	ND,P1	ug/L	50.0	19.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	50.0	9.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Chloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Chloroform	ND	ND,P1	ug/L	50.0	10.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Chloromethane	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Cyclohexane	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Ethylbenzene	37.8J	J,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Freon 113	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Methyl acetate	ND	ND,P1	ug/L	100	16.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
mp-Xylene	568	P1	ug/L	100	26.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
o-Xylene	221	P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Styrene	55.4	P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Tetrachloroethene	ND	ND,P1	ug/L	50.0	17.5	SW846 8260D	50	12/17/2024 05:54	PDK	A

Results

Client Sample ID	MW-15	Collected	12/10/2024 11:15
Lab Sample ID	3391582008	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Toluene	2480	P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Total Xylenes	789	P1	ug/L	150	33.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Trichloroethene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 05:54	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/17/2024 05:54	
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/19/2024 14:03	
4-Bromofluorobenzene	460-00-4	93.9%	79 – 114	12/17/2024 05:54	
4-Bromofluorobenzene	460-00-4	96.1%	79 – 114	12/19/2024 14:03	
Dibromofluoromethane	1868-53-7	97.1%	78 – 116	12/17/2024 05:54	
Dibromofluoromethane	1868-53-7	94.6%	78 – 116	12/19/2024 14:03	
Toluene-d8	2037-26-5	97.4%	76 – 127	12/17/2024 05:54	
Toluene-d8	2037-26-5	99.3%	76 – 127	12/19/2024 14:03	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	26	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	238	3,P1	mg/L	5	5	SM2320B-2011	1	12/16/2024 10:41	KMV	I
Chloride	22.3	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 20:06	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 00:44	J1W	I
pH	8.09	4,P1	pH_Units			S4500HB-11	1	12/16/2024 10:41	KMV	I
Specific Conductance	1140	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	322	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 20:06	J1W	I
Total Dissolved Solids	778	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	31	P1	NTU	0.30	0.30	SM2130B-2011	1	12/11/2024 14:54	NPF	I

Results

Client Sample ID	MW-15-Dup	Collected	12/10/2024 11:30
Lab Sample ID	3391582009	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Barium, Dissolved	0.083	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Barium, Total	0.086	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Calcium, Dissolved	78.1	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Calcium, Total	79.3	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 12:01	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Iron, Dissolved	6.4	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Iron, Total	6.8	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Magnesium, Dissolved	65.8	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Magnesium, Total	67.4	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Manganese, Dissolved	0.87	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Manganese, Total	0.90	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:08	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:31	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Potassium, Dissolved	38.0	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Potassium, Total	39.4	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Sodium, Dissolved	28.9	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Sodium, Total	29.9	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:25	MSY	E1

Results

Client Sample ID	MW-15-Dup	Collected	12/10/2024 11:30
Lab Sample ID	3391582009	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,4-Dimethylphenol	772	P1	ug/L	30.0	5.0	SW846 8270E	10	12/13/2024 20:33	CGS	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 03:15	M1O	D
2-Methylnaphthalene	185	P1	ug/L	15.0	2.5	SW846 8270E	10	12/13/2024 20:33	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 03:15	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 03:15	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 03:15	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 03:15	M1O	D
Acenaphthene	16.4	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Acenaphthylene	249	P1	ug/L	15.0	2.5	SW846 8270E	10	12/13/2024 20:33	CGS	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 03:15	M1O	D
Anthracene	13.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Benzo(a)anthracene	0.74J	J,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 03:15	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 03:15	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 03:15	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 03:15	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 03:15	M1O	D
Biphenyl	30.1	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 03:15	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 03:15	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 03:15	M1O	D

Results

Client Sample ID	MW-15-Dup	Collected	12/10/2024 11:30
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	218	P1	ug/L	30.0	2.5	SW846 8270E	10	12/13/2024 20:33	CGS	D
Chrysene	0.48J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 03:15	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 03:15	M1O	D
Dibenzofuran	69.6	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 03:15	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Fluoranthene	10.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Fluorene	77.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 03:15	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 03:15	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 03:15	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 03:15	M1O	D
mp-Cresol	2070	P1	ug/L	30.0	5.0	SW846 8270E	10	12/13/2024 20:33	CGS	D
Naphthalene	5080	P1	ug/L	300	130	SW846 8270E	200	12/13/2024 20:58	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 03:15	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 03:15	M1O	D
o-Cresol	1240	P1	ug/L	30.0	5.0	SW846 8270E	10	12/13/2024 20:33	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 03:15	M1O	D
Phenanthrene	79.6	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Phenol	1720	P1	ug/L	80.0	5.0	SW846 8270E	10	12/13/2024 20:33	CGS	D
Pyrene	7.6	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	53%	23 – 131	12/13/2024 03:15	
2,4,6-Tribromophenol	118-79-6	53.8%	23 – 131	12/13/2024 20:33	
2,4,6-Tribromophenol	118-79-6	0*%	23 – 131	12/13/2024 20:58	25
2-Fluorobiphenyl	321-60-8	67.2%	24 – 116	12/13/2024 03:15	
2-Fluorobiphenyl	321-60-8	69.8%	24 – 116	12/13/2024 20:33	
2-Fluorobiphenyl	321-60-8	0*%	24 – 116	12/13/2024 20:58	24
2-Fluorophenol	367-12-4	33.6%	10 – 85	12/13/2024 03:15	
2-Fluorophenol	367-12-4	37%	10 – 85	12/13/2024 20:33	
2-Fluorophenol	367-12-4	0*%	10 – 85	12/13/2024 20:58	21
Nitrobenzene-d5	4165-60-0	80.1%	32 – 125	12/13/2024 03:15	
Nitrobenzene-d5	4165-60-0	80.1%	32 – 125	12/13/2024 20:33	
Nitrobenzene-d5	4165-60-0	0*%	32 – 125	12/13/2024 20:58	23
Phenol-d5	4165-62-2	36.6%	7 – 56	12/13/2024 03:15	
Phenol-d5	4165-62-2	38.3%	7 – 56	12/13/2024 20:33	
Phenol-d5	4165-62-2	0*%	7 – 56	12/13/2024 20:58	22
Terphenyl-d14	98904-43-9	40.7*%	41 – 145	12/13/2024 03:15	6
Terphenyl-d14	98904-43-9	37.3*%	41 – 145	12/13/2024 20:33	26
Terphenyl-d14	98904-43-9	0*%	41 – 145	12/13/2024 20:58	27

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	100	46.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	100	41.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2,4-Trimethylbenzene	59.3	P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	350	75.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	50.0	19.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,3,5-Trimethylbenzene	47.6J	J,P1	ug/L	50.0	10.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
2-Butanone	ND	ND,P1	ug/L	500	90.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
2-Hexanone	ND	ND,P1	ug/L	250	65.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	250	75.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Acetone	ND	ND,P1	ug/L	500	155	SW846 8260D	50	12/17/2024 06:14	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Benzene	23100	P1	ug/L	500	115	SW846 8260D	500	12/19/2024 14:23	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Bromoform	ND	ND,P1	ug/L	50.0	20.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Bromomethane	ND	ND,P1	ug/L	50.0	19.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	50.0	9.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Chloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Chloroform	ND	ND,P1	ug/L	50.0	10.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Chloromethane	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Cyclohexane	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Ethylbenzene	33.9J	J,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Freon 113	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Methyl acetate	ND	ND,P1	ug/L	100	16.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
mp-Xylene	530	P1	ug/L	100	26.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
o-Xylene	212	P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Styrene	53.4	P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Tetrachloroethene	ND	ND,P1	ug/L	50.0	17.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Toluene	2300	P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Total Xylenes	743	P1	ug/L	150	33.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Trichloroethene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 06:14	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.2%	62 – 133	12/19/2024 14:23	
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/17/2024 06:14	
4-Bromofluorobenzene	460-00-4	91.3%	79 – 114	12/19/2024 14:23	
4-Bromofluorobenzene	460-00-4	94.8%	79 – 114	12/17/2024 06:14	
Dibromofluoromethane	1868-53-7	92.1%	78 – 116	12/19/2024 14:23	
Dibromofluoromethane	1868-53-7	97.6%	78 – 116	12/17/2024 06:14	
Toluene-d8	2037-26-5	96.3%	76 – 127	12/19/2024 14:23	
Toluene-d8	2037-26-5	99%	76 – 127	12/17/2024 06:14	

Results

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WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	18	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	242	3,P1	mg/L	5	5	SM2320B-2011	1	12/16/2024 10:53	KMV	I
Chloride	22.3	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 21:10	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 01:49	J1W	I
pH	8.14	4,P1	pH_Units			S4500HB-11	1	12/16/2024 10:53	KMV	I
Specific Conductance	1140	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	318	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 21:10	J1W	I
Total Dissolved Solids	760	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	31	P1	NTU	0.30	0.30	SM2130B-2011	1	12/11/2024 14:54	NPF	I

Results

Client Sample ID	MW-16	Collected	12/10/2024 14:30
Lab Sample ID	3391582010	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:53	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Barium, Dissolved	0.090	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Barium, Total	0.093	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Calcium, Dissolved	280	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Calcium, Total	283	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Chromium, Total	0.0022J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 12:02	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Iron, Dissolved	16.7	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Iron, Total	17.1	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Magnesium, Dissolved	51.4	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Magnesium, Total	52.9	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Manganese, Dissolved	1.7	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Manganese, Total	1.7	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:18	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:38	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Potassium, Dissolved	13.8	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Potassium, Total	14.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Selenium, Dissolved	0.011J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Sodium, Dissolved	13.0	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Sodium, Total	13.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:26	MSY	E1

Results

Client Sample ID	MW-16	Collected	12/10/2024 14:30
Lab Sample ID	3391582010	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,4-Dimethylphenol	118	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 04:29	M1O	D
2-Methylnaphthalene	90.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 04:29	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 04:29	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:29	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 04:29	M1O	D
Acenaphthene	200	P1	ug/L	30.0	5.0	SW846 8270E	20	12/13/2024 21:22	CGS	D
Acenaphthylene	7.4	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 04:29	M1O	D
Anthracene	8.3	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Benzo(a)anthracene	0.75J	J,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 04:29	M1O	D
Benzo(a)pyrene	0.27J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 04:29	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 04:29	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 04:29	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 04:29	M1O	D
Biphenyl	23.2	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:29	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 04:29	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 04:29	M1O	D

Results

Client Sample ID	MW-16	Collected	12/10/2024 14:30
Lab Sample ID	3391582010	Lab Receipt	12/11/2024 09:21

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	136	P1	ug/L	60.0	5.0	SW846 8270E	20	12/13/2024 21:22	CGS	D
Chrysene	0.35J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 04:29	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 04:29	M1O	D
Dibenzofuran	84.1	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 04:29	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Fluoranthene	9.1	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Fluorene	92.2	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 04:29	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 04:29	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 04:29	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 04:29	M1O	D
mp-Cresol	120	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
Naphthalene	3620	E,P1	ug/L	30.0	13.0	SW846 8270E	20	12/13/2024 21:22	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 04:29	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 04:29	M1O	D
o-Cresol	146	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 04:29	M1O	D
Phenanthrene	65.6	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Phenol	201	P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
Pyrene	5.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	59.1%	23 – 131	12/13/2024 21:22	
2,4,6-Tribromophenol	118-79-6	68.8%	23 – 131	12/13/2024 04:29	
2-Fluorobiphenyl	321-60-8	73.2%	24 – 116	12/13/2024 21:22	
2-Fluorobiphenyl	321-60-8	66.6%	24 – 116	12/13/2024 04:29	
2-Fluorophenol	367-12-4	42.4%	10 – 85	12/13/2024 21:22	
2-Fluorophenol	367-12-4	39.4%	10 – 85	12/13/2024 04:29	
Nitrobenzene-d5	4165-60-0	76.8%	32 – 125	12/13/2024 04:29	
Nitrobenzene-d5	4165-60-0	72.6%	32 – 125	12/13/2024 21:22	
Phenol-d5	4165-62-2	36.7%	7 – 56	12/13/2024 21:22	
Phenol-d5	4165-62-2	35.4%	7 – 56	12/13/2024 04:29	
Terphenyl-d14	98904-43-9	35.4*%	41 – 145	12/13/2024 21:22	29
Terphenyl-d14	98904-43-9	40.5*%	41 – 145	12/13/2024 04:29	28

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	MW-16	Collected	12/10/2024 14:30
Lab Sample ID	3391582010	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	100	46.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	100	41.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2,4-Trimethylbenzene	43.4J	J,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	350	75.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	50.0	19.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,3,5-Trimethylbenzene	26.8J	J,P1	ug/L	50.0	10.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
2-Butanone	ND	ND,P1	ug/L	500	90.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
2-Hexanone	ND	ND,P1	ug/L	250	65.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	250	75.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Acetone	ND	ND,P1	ug/L	500	155	SW846 8260D	50	12/17/2024 06:35	PDK	A
Benzene	13100	P1	ug/L	500	115	SW846 8260D	500	12/19/2024 14:44	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Bromoform	ND	ND,P1	ug/L	50.0	20.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Bromomethane	ND	ND,P1	ug/L	50.0	19.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	50.0	9.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Chloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Chloroform	ND	ND,P1	ug/L	50.0	10.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Chloromethane	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Cyclohexane	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Ethylbenzene	34.5J	J,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Freon 113	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Methyl acetate	ND	ND,P1	ug/L	100	16.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
mp-Xylene	344	P1	ug/L	100	26.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
o-Xylene	141	P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Styrene	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 06:35	PDK	A

Results

Client Sample ID	MW-16	Collected	12/10/2024 14:30
Lab Sample ID	3391582010	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND,P1	ug/L	50.0	17.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Toluene	217	P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Total Xylenes	485	P1	ug/L	150	33.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Trichloroethene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 06:35	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/19/2024 14:44	
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/17/2024 06:35	
4-Bromofluorobenzene	460-00-4	96.8%	79 – 114	12/19/2024 14:44	
4-Bromofluorobenzene	460-00-4	97.3%	79 – 114	12/17/2024 06:35	
Dibromofluoromethane	1868-53-7	94.6%	78 – 116	12/19/2024 14:44	
Dibromofluoromethane	1868-53-7	96.3%	78 – 116	12/17/2024 06:35	
Toluene-d8	2037-26-5	98%	76 – 127	12/19/2024 14:44	
Toluene-d8	2037-26-5	97.9%	76 – 127	12/17/2024 06:35	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	41	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	688	3,P1	mg/L	50	50	SM2320B-2011	10	12/16/2024 11:04	KMV	I
Chloride	7.1	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 21:23	J1W	I
Nitrate-N	0.97J	J,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 02:02	J1W	I
pH	8.06	4,P1	pH_Units			S4500HB-11	10	12/16/2024 11:04	KMV	I
Specific Conductance	1540	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	295	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 21:23	J1W	I
Total Dissolved Solids	1060	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	180	P1	NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 08:26	NPF	I

Results

Client Sample ID	MW-2	Collected	12/10/2024 15:45
Lab Sample ID	3391582011	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:54	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Barium, Dissolved	0.11	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Barium, Total	0.12	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Calcium, Dissolved	181	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Calcium, Total	185	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/15/2025 12:34	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Iron, Dissolved	0.79	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Iron, Total	0.84	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Magnesium, Dissolved	99.9	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Magnesium, Total	103	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Manganese, Dissolved	1.5	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Manganese, Total	1.6	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:03	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:27	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Potassium, Dissolved	19.7	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Potassium, Total	20.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Sodium, Dissolved	15.9	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Sodium, Total	16.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 10:54	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/15/2025 12:34	MSY	E1

Results

Client Sample ID	MW-2	Collected	12/10/2024 15:45
Lab Sample ID	3391582011	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,4-Dimethylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 04:53	M1O	D
2-Methylnaphthalene	1.2J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 04:53	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 04:53	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:53	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 04:53	M1O	D
Acenaphthene	214	P1	ug/L	6.0	1.0	SW846 8270E	4	12/13/2024 21:47	CGS	D
Acenaphthylene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 04:53	M1O	D
Anthracene	14.3	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Benzo(a)anthracene	0.54J	J,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 04:53	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 04:53	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 04:53	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 04:53	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 04:53	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:53	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 04:53	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 04:53	M1O	D

Results

Client Sample ID	MW-2	Collected	12/10/2024 15:45
Lab Sample ID	3391582011	Lab Receipt	12/11/2024 09:21

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	183	P1	ug/L	12.0	1.0	SW846 8270E	4	12/13/2024 21:47	CGS	D
Chrysene	0.29J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 04:53	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 04:53	M1O	D
Dibenzofuran	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 04:53	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Fluoranthene	13.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Fluorene	144	P1	ug/L	6.0	1.0	SW846 8270E	4	12/13/2024 21:47	CGS	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 04:53	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 04:53	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 04:53	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 04:53	M1O	D
mp-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
Naphthalene	113	P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 04:53	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 04:53	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 04:53	M1O	D
o-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 04:53	M1O	D
Phenanthrene	114	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Phenol	9.1	P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
Pyrene	9.4	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	61.3%	23 – 131	12/13/2024 21:47	
2,4,6-Tribromophenol	118-79-6	66.1%	23 – 131	12/13/2024 04:53	
2-Fluorobiphenyl	321-60-8	67.5%	24 – 116	12/13/2024 21:47	
2-Fluorobiphenyl	321-60-8	66.2%	24 – 116	12/13/2024 04:53	
2-Fluorophenol	367-12-4	36.3%	10 – 85	12/13/2024 21:47	
2-Fluorophenol	367-12-4	35.8%	10 – 85	12/13/2024 04:53	
Nitrobenzene-d5	4165-60-0	68.1%	32 – 125	12/13/2024 21:47	
Nitrobenzene-d5	4165-60-0	70.4%	32 – 125	12/13/2024 04:53	
Phenol-d5	4165-62-2	31.1%	7 – 56	12/13/2024 21:47	
Phenol-d5	4165-62-2	32.5%	7 – 56	12/13/2024 04:53	
Terphenyl-d14	98904-43-9	31.2*%	41 – 145	12/13/2024 21:47	31
Terphenyl-d14	98904-43-9	36.7*%	41 – 145	12/13/2024 04:53	30

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	MW-2	Collected	12/10/2024 15:45
Lab Sample ID	3391582011	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	100	46.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	100	41.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2,4-Trimethylbenzene	13.2J	J,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	350	75.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	50.0	19.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	50.0	10.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
2-Butanone	ND	ND,P1	ug/L	500	90.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
2-Hexanone	ND	ND,P1	ug/L	250	65.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	250	75.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Acetone	ND	ND,P1	ug/L	500	155	SW846 8260D	50	12/17/2024 05:13	PDK	A
Benzene	4050	P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Bromochloromethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Bromoform	ND	ND,P1	ug/L	50.0	20.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Bromomethane	ND	ND,P1	ug/L	50.0	19.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	50.0	9.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Chloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Chloroform	ND	ND,P1	ug/L	50.0	10.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Chloromethane	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Cyclohexane	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Ethylbenzene	27.6J	J,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Freon 113	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Methyl acetate	ND	ND,P1	ug/L	100	16.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
mp-Xylene	ND	ND,P1	ug/L	100	26.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
o-Xylene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Styrene	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:13	PDK	A

Results

Client Sample ID	MW-2	Collected	12/10/2024 15:45
Lab Sample ID	3391582011	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND,P1	ug/L	50.0	17.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Toluene	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Total Xylenes	ND	ND,P1	ug/L	150	33.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Trichloroethene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 05:13	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/17/2024 05:13	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	12/17/2024 05:13	
Dibromofluoromethane	1868-53-7	96.6%	78 – 116	12/17/2024 05:13	
Toluene-d8	2037-26-5	98.7%	76 – 127	12/17/2024 05:13	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	63	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	872	3,P1	mg/L	50	50	SM2320B-2011	10	12/18/2024 15:17	KMV	I
Chloride	11.0	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 23:07	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 03:46	J1W	I
pH	8.26	4,P1	pH_Units			S4500HB-11	1	12/16/2024 12:12	KMV	I
Specific Conductance	1490	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	17.0	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 23:07	J1W	I
Total Dissolved Solids	836	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	11	P1	NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 08:26	NPF	I

Results

Client Sample ID	TB-41	Collected	12/10/2024 15:45
Lab Sample ID	3391582012	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.93	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2.0	0.60	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.82	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	1.5	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.38	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.20	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 00:48	PDK	A
2-Butanone	ND	ND,P1	ug/L	10.0	1.8	SW846 8260D	1	12/17/2024 00:48	PDK	A
2-Hexanone	ND	ND,P1	ug/L	5.0	1.3	SW846 8260D	1	12/17/2024 00:48	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	1.5	SW846 8260D	1	12/17/2024 00:48	PDK	A
Acetone	ND	ND,P1	ug/L	10.0	3.1	SW846 8260D	1	12/17/2024 00:48	PDK	A
Benzene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 00:48	PDK	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 00:48	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 00:48	PDK	A
Bromoform	ND	ND,P1	ug/L	1.0	0.40	SW846 8260D	1	12/17/2024 00:48	PDK	A
Bromomethane	ND	ND,P1	ug/L	1.0	0.39	SW846 8260D	1	12/17/2024 00:48	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 00:48	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 00:48	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	1.0	0.19	SW846 8260D	1	12/17/2024 00:48	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 00:48	PDK	A
Chloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 00:48	PDK	A
Chloroform	ND	ND,P1	ug/L	1.0	0.21	SW846 8260D	1	12/17/2024 00:48	PDK	A
Chloromethane	0.38J	J,P1	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 00:48	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 00:48	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 00:48	PDK	A
Cyclohexane	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 00:48	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 00:48	PDK	A
Ethylbenzene	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 00:48	PDK	A
Freon 113	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 00:48	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 00:48	PDK	A
Methyl acetate	ND	ND,P1	ug/L	2.0	0.32	SW846 8260D	1	12/17/2024 00:48	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 00:48	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 00:48	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 00:48	PDK	A
mp-Xylene	ND	ND,P1	ug/L	2.0	0.52	SW846 8260D	1	12/17/2024 00:48	PDK	A
o-Xylene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 00:48	PDK	A
Styrene	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 00:48	PDK	A

Results

Client Sample ID	TB-41	Collected	12/10/2024 15:45
Lab Sample ID	3391582012	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND,P1	ug/L	1.0	0.35	SW846 8260D	1	12/17/2024 00:48	PDK	A
Toluene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 00:48	PDK	A
Total Xylenes	ND	ND,P1	ug/L	3.0	0.66	SW846 8260D	1	12/17/2024 00:48	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 00:48	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 00:48	PDK	A
Trichloroethene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 00:48	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 00:48	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 00:48	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/17/2024 00:48	
4-Bromofluorobenzene	460-00-4	97.3%	79 – 114	12/17/2024 00:48	
Dibromofluoromethane	1868-53-7	96.3%	78 – 116	12/17/2024 00:48	
Toluene-d8	2037-26-5	98.4%	76 – 127	12/17/2024 00:48	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391582001	MW-14	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582002	MW-28	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582003	MW-37	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391582004	MW-45	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582005	MW-17	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582006	MW-13	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582007	MW-12	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391582008	MW-15	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582009	MW-15-Dup	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582010	MW-16	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582011	MW-2	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582012	TB-41	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1354456	Prep Method	SW846 3015A
Date	12/12/2024 05:30	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391582003	3391582005	3391582001	3391582004
3391582002	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Method Blank 3916851 (MB) Created on 12/12/2024 00:42 For QC Batch 1354456

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3916852 (LCS) Created on 12/12/2024 00:42 For QC Batch 1354456

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	105	80 - 120		
Antimony, Total	7440-36-0	LCS	0.24		0.22	108	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	104	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	108	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	108	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	107	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	102	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	107	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	108	80 - 120		
Copper, Total	7440-50-8	LCS	1.2		1.10	104	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Iron, Total	7439-89-6	LCS	1.2		1.10	107	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	106	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	108	80 - 120		
Manganese, Total	7439-96-5	LCS	0.13		0.11	116	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	108	80 - 120		
Potassium, Total	7440-09-7	LCS	23.1		22.20	104	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	107	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	109	80 - 120		
Sodium, Total	7440-23-5	LCS	23.7		22.20	107	80 - 120		
Thallium, Total	7440-28-0	LCS	0.11		0.11	101	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.06		0.0560	107	80 - 120		
Zinc, Total	7440-66-6	LCS	0.59		0.56	107	80 - 120		

Matrix Spike 3916853 (MS) 3391582001 For QC Batch 1354456

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916854 (MSD) 3391582001 For QC Batch 1354456

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	MS	1.3	0.0530	1.10	111	75 - 125		
Aluminum, Total	7429-90-5	MSD	1.3	0.0530	1.10	111	75 - 125	RPD 0.21 (Max-20)	
Antimony, Total	7440-36-0	MS	0.26	0.0069	0.22	114	75 - 125		
Antimony, Total	7440-36-0	MSD	0.26	0.0069	0.22	114	75 - 125	RPD 0.21 (Max-20)	
Arsenic, Total	7440-38-2	MS	0.14	0.0170	0.11	108	75 - 125		
Arsenic, Total	7440-38-2	MSD	0.14	0.0170	0.11	108	75 - 125	RPD 0 (Max-20)	
Barium, Total	7440-39-3	MS	1.3	0.14	1.10	107	75 - 125		
Barium, Total	7440-39-3	MSD	1.3	0.14	1.10	107	75 - 125	RPD 0.21 (Max-20)	
Beryllium, Total	7440-41-7	MS	0.25	0	0.22	112	75 - 125		
Beryllium, Total	7440-41-7	MSD	0.25	0	0.22	111	75 - 125	RPD 0.45 (Max-20)	
Cadmium, Total	7440-43-9	MS	0.12	0.000330	0.11	106	75 - 125		
Cadmium, Total	7440-43-9	MSD	0.12	0.000330	0.11	106	75 - 125	RPD 0.09 (Max-20)	
Calcium, Total	7440-70-2	MS	234	235	1.10	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	234	235	1.10	NC	75 - 125	RPD 0.10 (Max-20)	
Chromium, Total	7440-47-3	MS	0.12	0.0026	0.11	108	75 - 125		
Chromium, Total	7440-47-3	MSD	0.12	0.0026	0.11	108	75 - 125	RPD 0.54 (Max-20)	
Cobalt, Total	7440-48-4	MS	1.2	0.000110	1.10	104	75 - 125		
Cobalt, Total	7440-48-4	MSD	1.1	0.000110	1.10	103	75 - 125	RPD 0.31 (Max-20)	
Copper, Total	7440-50-8	MS	1.2	0.0034	1.10	107	75 - 125		
Copper, Total	7440-50-8	MSD	1.2	0.0034	1.10	107	75 - 125	RPD 0.19 (Max-20)	
Iron, Total	7439-89-6	MS	11.8	10.60	1.10	NC	75 - 125		
Iron, Total	7439-89-6	MSD	11.7	10.60	1.10	NC	75 - 125	RPD 0.39 (Max-20)	
Lead, Total	7439-92-1	MS	0.12	0	0.11	105	75 - 125		
Lead, Total	7439-92-1	MSD	0.11	0	0.11	103	75 - 125	RPD 2.11 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Magnesium, Total	7439-95-4	MS	46.9	46.50	1.10	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	47.1	46.50	1.10	NC	75 - 125	RPD 0.26 (Max-20)	
Manganese, Total	7439-96-5	MS	1.1	0.94	0.11	NC	75 - 125		
Manganese, Total	7439-96-5	MSD	1.1	0.94	0.11	NC	75 - 125	RPD 0.02 (Max-20)	
Nickel, Total	7440-02-0	MS	1.2	0.0027	1.10	106	75 - 125		
Nickel, Total	7440-02-0	MSD	1.2	0.0027	1.10	105	75 - 125	RPD 0.26 (Max-20)	
Potassium, Total	7440-09-7	MS	32.4	8.20	22.20	109	75 - 125		
Potassium, Total	7440-09-7	MSD	32.3	8.20	22.20	109	75 - 125	RPD 0.19 (Max-20)	
Selenium, Total	7782-49-2	MS	1.3	0.0023	1.10	117	75 - 125		
Selenium, Total	7782-49-2	MSD	1.3	0.0023	1.10	115	75 - 125	RPD 1.76 (Max-20)	
Silver, Total	7440-22-4	MS	0.13	0	0.11	114	75 - 125		
Silver, Total	7440-22-4	MSD	0.13	0	0.11	113	75 - 125	RPD 0.62 (Max-20)	
Sodium, Total	7440-23-5	MS	94.7	71.10	22.20	106	75 - 125		
Sodium, Total	7440-23-5	MSD	94.4	71.10	22.20	105	75 - 125	RPD 0.34 (Max-20)	
Thallium, Total	7440-28-0	MS	0.11	0.000440	0.11	96.6	75 - 125		
Thallium, Total	7440-28-0	MSD	0.11	0.000440	0.11	96.7	75 - 125	RPD 0.10 (Max-20)	
Vanadium, Total	7440-62-2	MS	0.061	0	0.0560	109	75 - 125		
Vanadium, Total	7440-62-2	MSD	0.061	0	0.0560	110	75 - 125	RPD 0.55 (Max-20)	
Zinc, Total	7440-66-6	MS	0.57	0	0.56	102	75 - 125		
Zinc, Total	7440-66-6	MSD	0.57	0	0.56	102	75 - 125	RPD 0.12 (Max-20)	

QC Batch

QC Batch	1355095	Prep Method	SW846 3015A
Date	12/13/2024 09:38	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391582003	3391582005	3391582001	3391582004
3391582002	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Method Blank 3917542 (MB) Created on 12/13/2024 06:15 For QC Batch 1355095

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3917543 (LCS) Created on 12/13/2024 06:15 For QC Batch 1355095

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.1		1.10	103	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.19		0.22	85	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.11		0.11	99.7	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	106	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.24		0.22	106	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	105	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.1		1.10	95.7	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	106	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	106	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	102	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	105	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	105	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	107	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	113	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	105	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	22.6		22.20	102	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	109	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.4		22.20	105	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	97.1	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.053		0.0560	96	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.57		0.56	103	80 - 120		

Matrix Spike 3917544 (MS) 3391582002 For QC Batch 1355095

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917545 (MSD) 3391582002 For QC Batch 1355095

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.2	0	1.10	105	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.2	0	1.10	106	75 - 125	RPD 0.63 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.14	0	0.22	62.6*	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.15	0	0.22	65.3*	75 - 125	RPD 4.30 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.17	0.0540	0.11	106	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.17	0.0540	0.11	104	75 - 125	RPD 1.89 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0870	1.10	103	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.2	0.0870	1.10	104	75 - 125	RPD 0.44 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.24	0.000330	0.22	106	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.24	0.000330	0.22	106	75 - 125	RPD 0.57 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000330	0.11	101	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000330	0.11	101	75 - 125	RPD 0.59 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	164	163	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	164	163	1.10	NC	75 - 125	RPD 0.41 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.12	0.0016	0.11	104	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0016	0.11	104	75 - 125	RPD 0.66 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	101	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	102	75 - 125	RPD 0.75 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.1	0	1.10	103	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0	1.10	104	75 - 125	RPD 0.65 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	10.7	9.50	1.10	NC	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	10.7	9.50	1.10	NC	75 - 125	RPD 0.09 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.11	0	0.11	99.8	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.11	0	0.11	101	75 - 125	RPD 1.59 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	72.2	70.80	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	71.9	70.80	1.10	NC	75 - 125	RPD 0.39 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	1	0.91	0.11	NC	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	1	0.91	0.11	NC	75 - 125	RPD 0.20 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0	1.10	99.5	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0	1.10	100	75 - 125	RPD 0.68 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	38.1	14.70	22.20	105	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	38.4	14.70	22.20	107	75 - 125	RPD 0.67 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.2	0.0110	1.10	106	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.2	0.0110	1.10	107	75 - 125	RPD 1.57 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.13	0	0.11	113	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.13	0	0.11	114	75 - 125	RPD 1.06 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	90.2	67.20	22.20	104	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	90.4	67.20	22.20	104	75 - 125	RPD 0.16 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.11	0	0.11	97.8	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.11	0	0.11	98	75 - 125	RPD 0.20 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.053	0	0.0560	95.8	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.054	0	0.0560	97.2	75 - 125	RPD 1.45 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.53	0	0.56	94.7	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.53	0	0.56	95.1	75 - 125	RPD 0.44 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

QC Batch

QC Batch	1356093	Prep Method	SW846 7470A
Date	12/16/2024 07:57	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391582003	3391582005	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Matrix Spike 3918429 (MS) 3391609001 (non-Project Sample) For QC Batch 1356093

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918430 (MSD) 3391609001 (non-Project Sample) For QC Batch 1356093

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0058	0.000091	0.0050	114	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0055	0.000091	0.0050	108	70 - 130	RPD 5.66 (Max-20)	

Method Blank 3918427 (MB) Created on 12/16/2024 06:08 For QC Batch 1356093

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3918428 (LCS) Created on 12/16/2024 06:08 For QC Batch 1356093

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0022		0.0020	109	85 - 115		

Matrix Spike 3918431 (MS) 3391582007 For QC Batch 1356093

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918432 (MSD) 3391582007 For QC Batch 1356093

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0058	0.000080	0.0050	114	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0056	0.000080	0.0050	110	70 - 130	RPD 3 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

QC Batch

QC Batch	1356194	Prep Method	SW846 7470A
Date	12/16/2024 07:57	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391582003	3391582005	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Matrix Spike 3918527 (MS) 3391836011 (non-Project Sample) For QC Batch 1356194

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918528 (MSD) 3391836011 (non-Project Sample) For QC Batch 1356194

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0053	0.000065	0.0050	106	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0054	0.000065	0.0050	106	70 - 130	RPD 0.19 (Max-20)	

Method Blank 3918523 (MB) Created on 12/16/2024 07:22 For QC Batch 1356194

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3918524 (LCS) Created on 12/16/2024 07:22 For QC Batch 1356194

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0022		0.0020	111	85 - 115		

Matrix Spike 3918525 (MS) 3391582003 For QC Batch 1356194

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918526 (MSD) 3391582003 For QC Batch 1356194

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0056	0.000059	0.0050	110	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0055	0.000059	0.0050	108	70 - 130	RPD 1.99 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1354605	Prep Method	SW846 3510C
Date	12/12/2024 08:40	Analysis Method	SW846 8270E
Tech.	DEC		

Associated Samples

3391582006	3391582004	3391582001	3391582005
3391582002	3391582003	3391582009	3391582010
3391582007	3391582008	3391582011	

Method Blank 3916928 (MB) Created on 12/12/2024 07:03 For QC Batch 1354605

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	63.2	100	63.2	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	31.6	50	63.2	24 - 116	
2-Fluorophenol	367-12-4	BLK	49.4	100	49.4	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	37.3	50	74.6	32 - 125	
Phenol-d5	4165-62-2	BLK	40.1	100	40.1	7 - 56	
Terphenyl-d14	98904-43-9	BLK	34.7	50	69.4	41 - 145	

Lab Control Standard 3916929 (LCS) Created on 12/12/2024 07:03 For QC Batch 1354605

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	20.1		50	40.2	18 - 124		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS	23.5		50	47	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	56.3		100	56.3	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	61.2		100	61.2	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	58.6		100	58.6	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	59.6		100	59.6	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	76.5		100	76.5	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	47		100	47	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	38.2		50	76.3	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	38		50	76	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	26.2		50	52.5	27 - 125		
2-Chlorophenol	95-57-8	LCS	57.8		100	57.8	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	47.5		100	47.5	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	23.9		50	47.9	22 - 124		
2-Nitroaniline	88-74-4	LCS	40.6		50	81.2	55 - 138		
2-Nitrophenol	88-75-5	LCS	56.3		100	56.3	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	37.3		100	37.3*	38 - 115		
3-Nitroaniline	99-09-2	LCS	33.8		50	67.6	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	34.6		50	69.2	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	69.1		100	69.1	46 - 144		
4-Chloroaniline	106-47-8	LCS	24.4		50	48.8	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	29.5		50	58.9	38 - 128		
4-Nitroaniline	100-01-6	LCS	27.9		50	55.9	53 - 124		
4-Nitrophenol	100-02-7	LCS	26.3		100	26.3	5 - 108		
Acenaphthene	83-32-9	LCS	29.8		50	59.6	36 - 130		
Acenaphthylene	208-96-8	LCS	26		50	51.9	39 - 130		
Acetophenone	98-86-2	LCS	35.1		50	70.2	49 - 117		
Anthracene	120-12-7	LCS	39.1		50	78.1	48 - 133		
Atrazine	1912-24-9	LCS	44.5		50	88.9	44 - 149		
Benzaldehyde	100-52-7	LCS	41.9		50	83.7	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	39.8		50	79.6	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	39.2		50	78.5	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	39.3		50	78.7	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	38.1		50	76.2	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	40.5		50	81	52 - 130		
Biphenyl	92-52-4	LCS	25.1		50	50.2	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	41.1		50	82.3	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	37.6		50	75.2	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	31.9		50	63.9	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	32.5		50	65	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	37.2		50	74.4	50 - 137		
Caprolactam	105-60-2	LCS	16.4		50	32.8	5 - 118		
Carbazole	86-74-8	LCS	39.6		50	79.3	52 - 139		
Chrysene	218-01-9	LCS	41.7		50	83.3	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	36.5		50	73.1	56 - 130		
Dibenzofuran	132-64-9	LCS	30.4		50	60.9	39 - 133		
Diethylphthalate	84-66-2	LCS	32.3		50	64.6	45 - 132		
Dimethylphthalate	131-11-3	LCS	36.2		50	72.4	44 - 131		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Di-n-Butylphthalate	84-74-2	LCS	38.9		50	77.9	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	35.8		50	71.5	35 - 141		
Fluoranthene	206-44-0	LCS	43.9		50	87.8	49 - 132		
Fluorene	86-73-7	LCS	32.2		50	64.3	42 - 131		
Hexachlorobenzene	118-74-1	LCS	36.3		50	72.6	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	19.2		50	38.3	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	9.4		50	18.9	5 - 97		
Hexachloroethane	67-72-1	LCS	17.3		50	34.6	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	36		50	71.9	55 - 126		
Isophorone	78-59-1	LCS	37.8		50	75.6	45 - 129		
mp-Cresol	108394/106445	LCS	67.4		100	67.4	28 - 128		
Naphthalene	91-20-3	LCS	23.9		50	47.9	21 - 123		
Nitrobenzene	98-95-3	LCS	36.7		50	73.5	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	40		50	80	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	50		50	99.9	58 - 125		
o-Cresol	95-48-7	LCS	63.4		100	63.4	34 - 136		
Pentachlorophenol	87-86-5	LCS	57.4		100	57.4	41 - 149		
Phenanthrene	85-01-8	LCS	37		50	73.9	46 - 131		
Phenol	108-95-2	LCS	38.9		100	38.9	5 - 111		
Pyrene	129-00-0	LCS	37.9		50	75.7	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	61.4	100	61.4	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	34.9	50	69.7	24 - 116	
2-Fluorophenol	367-12-4	LCS	43.6	100	43.6	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	36.1	50	72.1	32 - 125	
Phenol-d5	4165-62-2	LCS	37.5	100	37.5	7 - 56	
Terphenyl-d14	98904-43-9	LCS	32.8	50	65.6	41 - 145	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1355209	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391582003 3391582001 3391582005 3391582002 3391582007

Matrix Spike 3917944 (MS) 3391890002 (non-Project Sample) For QC Batch 1355209

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917945 (MSD) 3391890002 (non-Project Sample) For QC Batch 1355209

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	23	0	20	115	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	23.3	0	20	117	66 - 130	RPD 1.54 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	21.2	0	20	106	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	21.9	0	20	109	74 - 135	RPD 2.95 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	20.6	0	20	103	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	21.8	0	20	109	82 - 126	RPD 6.02 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	22.5	0.61	20	109	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	23.1	0.61	20	113	78 - 124	RPD 3.03 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	23.1	0	20	116	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	23.5	0	20	117	63 - 128	RPD 1.46 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	19.5	0	20	97.6	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	20.6	0	20	103	61 - 126	RPD 5.53 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	21.8	0	20	109	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	23.1	0	20	115	75 - 132	RPD 5.54 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	20.9	0	20	105	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	21.6	0	20	108	67 - 123	RPD 3.28 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	23.3	0	20	117	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	24.2	0	20	121	76 - 125	RPD 3.78 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	18.9	0	20	94.5	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	20	0	20	100	59 - 133	RPD 5.58 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	20	0	20	99.8	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	20.8	0	20	104	80 - 124	RPD 4.19 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	21.1	0	20	106	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	21.8	0	20	109	82 - 118	RPD 3.24 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	20.1	0	20	101	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	20.4	0	20	102	70 - 133	RPD 1.42 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	22.1	0	20	110	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	22.3	0	20	112	81 - 127	RPD 1.24 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	23.5	0	20	118	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	24.5	0	20	122	76 - 125	RPD 3.94 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	21.3	0	20	106	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	22.2	0	20	111	81 - 118	RPD 4.14 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	20.9	0	20	104	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	21.8	0	20	109	81 - 116	RPD 4.30 (Max-15)	
2-Butanone	78-93-3	MS	97.2	0	100	97.2	50 - 152		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Butanone	78-93-3	MSD	98.3	0	100	98.3	50 - 152	RPD 1.12 (Max-16)	
2-Hexanone	591-78-6	MS	103	0	100	103	65 - 154		
2-Hexanone	591-78-6	MSD	108	0	100	108	65 - 154	RPD 4.19 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	102	0	100	102	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	107	0	100	107	71 - 146	RPD 4.14 (Max-16)	
Acetone	67-64-1	MS	87	0	100	87	40 - 151		
Acetone	67-64-1	MSD	88.7	0	100	88.7	40 - 151	RPD 1.94 (Max-40)	
Benzene	71-43-2	MS	21.8	0	20	109	80 - 124		
Benzene	71-43-2	MSD	22.2	0	20	111	80 - 124	RPD 1.77 (Max-26)	
Bromochloromethane	74-97-5	MS	21.8	0	20	109	73 - 117		
Bromochloromethane	74-97-5	MSD	22.5	0	20	112	73 - 117	RPD 2.90 (Max-19)	
Bromodichloromethane	75-27-4	MS	22.5	0	20	113	79 - 126		
Bromodichloromethane	75-27-4	MSD	23.3	0	20	116	79 - 126	RPD 3.25 (Max-16)	
Bromoform	75-25-2	MS	20.4	0	20	102	70 - 123		
Bromoform	75-25-2	MSD	20.9	0	20	104	70 - 123	RPD 2.31 (Max-16)	
Bromomethane	74-83-9	MS	15.4	0	20	77.1	45 - 148		
Bromomethane	74-83-9	MSD	16.5	0	20	82.7	45 - 148	RPD 6.96 (Max-26)	
Carbon Disulfide	75-15-0	MS	21.1	0	20	105	57 - 131		
Carbon Disulfide	75-15-0	MSD	21.8	0	20	109	57 - 131	RPD 3.54 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	23.7	0	20	118	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	24.4	0	20	122	62 - 132	RPD 3.04 (Max-17)	
Chlorobenzene	108-90-7	MS	20.5	0	20	103	85 - 117		
Chlorobenzene	108-90-7	MSD	21.7	0	20	108	85 - 117	RPD 5.42 (Max-15)	
Chlorodibromomethane	124-48-1	MS	20.4	0	20	102	77 - 122		
Chlorodibromomethane	124-48-1	MSD	21.6	0	20	108	77 - 122	RPD 5.71 (Max-15)	
Chloroethane	75-00-3	MS	22.3	0	20	111	51 - 142		
Chloroethane	75-00-3	MSD	22.7	0	20	113	51 - 142	RPD 1.96 (Max-24)	
Chloroform	67-66-3	MS	21.2	0	20	106	78 - 122		
Chloroform	67-66-3	MSD	21.9	0	20	109	78 - 122	RPD 3.14 (Max-16)	
Chloromethane	74-87-3	MS	19.7	0	20	98.7	38 - 156		
Chloromethane	74-87-3	MSD	19.8	0	20	99	38 - 156	RPD 0.26 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	22.7	0.38	20	112	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	23.4	0.38	20	115	78 - 125	RPD 3.22 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	20.3	0	20	101	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	20.9	0	20	105	81 - 121	RPD 3.16 (Max-16)	
Cyclohexane	110-82-7	MS	23	0	20	115	66 - 130		
Cyclohexane	110-82-7	MSD	23.5	0	20	118	66 - 130	RPD 2.13 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	23.2	0	20	116	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	23.8	0	20	119	17 - 166	RPD 2.73 (Max-24)	
Ethylbenzene	100-41-4	MS	22.1	0	20	110	80 - 124		
Ethylbenzene	100-41-4	MSD	23.3	0	20	117	80 - 124	RPD 5.41 (Max-19)	
Freon 113	76-13-1	MS	23.3	0	20	116	50 - 130		
Freon 113	76-13-1	MSD	23.9	0	20	120	50 - 130	RPD 2.84 (Max-26)	
Isopropylbenzene	98-82-8	MS	25.7	0	20	129	73 - 129		
Isopropylbenzene	98-82-8	MSD	26.7	0	20	134*	73 - 129	RPD 3.85 (Max-18)	
Methyl acetate	79-20-9	MS	17	0	20	85.1	70 - 130		
Methyl acetate	79-20-9	MSD	16.9	0	20	84.5	70 - 130	RPD 0.71 (Max-18)	
Methyl cyclohexane	108-87-2	MS	21.9	0	20	109	70 - 130		
Methyl cyclohexane	108-87-2	MSD	23	0	20	115	70 - 130	RPD 5.04 (Max-18)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl t-Butyl Ether	1634-04-4	MS	20.6	0	20	103	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	21.3	0	20	106	69 - 115	RPD 3.17 (Max-20)	
Methylene Chloride	75-09-2	MS	21.5	0	20	107	76 - 121		
Methylene Chloride	75-09-2	MSD	21.9	0	20	110	76 - 121	RPD 1.98 (Max-17)	
mp-Xylene	108383/106423	MS	44.2	0	40	111	79 - 125		
mp-Xylene	108383/106423	MSD	46.5	0	40	116	79 - 125	RPD 4.95 (Max-21)	
o-Xylene	95-47-6	MS	22.2	0	20	111	79 - 124		
o-Xylene	95-47-6	MSD	23.5	0	20	118	79 - 124	RPD 5.84 (Max-19)	
Styrene	100-42-5	MS	23.4	0	20	117	79 - 123		
Styrene	100-42-5	MSD	24.3	0	20	122	79 - 123	RPD 3.99 (Max-16)	
Tetrachloroethene	127-18-4	MS	18.7	0	20	93.7	72 - 124		
Tetrachloroethene	127-18-4	MSD	19.6	0	20	98	72 - 124	RPD 4.43 (Max-38)	
Toluene	108-88-3	MS	21.5	0	20	107	80 - 125		
Toluene	108-88-3	MSD	22.2	0	20	111	80 - 125	RPD 3.38 (Max-20)	
Total Xylenes	1330-20-7	MS	66.4	0	60	111	79 - 125		
Total Xylenes	1330-20-7	MSD	70	0	60	117	79 - 125	RPD 5.24 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	22.2	0	20	111	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	23.2	0	20	116	71 - 122	RPD 4.46 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	20.2	0	20	101	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	21.5	0	20	108	78 - 126	RPD 6.06 (Max-18)	
Trichloroethene	79-01-6	MS	21.8	0	20	109	77 - 124		
Trichloroethene	79-01-6	MSD	22	0	20	110	77 - 124	RPD 1.05 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	23.5	0	20	118	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	24	0	20	120	38 - 123	RPD 2.09 (Max-23)	
Vinyl Chloride	75-01-4	MS	22.4	0	20	112	27 - 138		
Vinyl Chloride	75-01-4	MSD	23.2	0	20	116	27 - 138	RPD 3.63 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.5	30	105	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	31	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	29.1	30	97	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	30	30	100	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.7	30	102	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	30.7	30	102	78 - 116	
Toluene-d8	2037-26-5	MS	29.5	30	98.3	76 - 127	
Toluene-d8	2037-26-5	MSD	29.9	30	99.8	76 - 127	

Method Blank 3917834 (MB) Created on 12/13/2024 10:08 For QC Batch 1355209

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.7	30	102	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.7	30	98.9	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.3	30	97.5	78 - 116	
Toluene-d8	2037-26-5	BLK	30.1	30	100	76 - 127	

Lab Control Standard 3917835 (LCS) Created on 12/13/2024 10:08 For QC Batch 1355209

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.4		20	107	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.1		20	105	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.1		20	106	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	21.1		20	105	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	23.1		20	116	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.4		20	112	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22		20	110	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23		20	115	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	23.5		20	117	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.6		20	103	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	20.3		20	102	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.8		20	109	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.4		20	96.8	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21.1		20	105	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	23.2		20	116	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	21.6		20	108	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.6		20	108	81 - 116		
2-Butanone	78-93-3	LCS	104		100	104	50 - 152		
2-Hexanone	591-78-6	LCS	105		100	105	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	104		100	104	71 - 146		
Acetone	67-64-1	LCS	99		100	99	40 - 151		
Benzene	71-43-2	LCS	21		20	105	80 - 124		
Bromochloromethane	74-97-5	LCS	21.5		20	108	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.5		20	108	79 - 126		
Bromoform	75-25-2	LCS	20.8		20	104	70 - 123		
Bromomethane	74-83-9	LCS	18.5		20	92.7	45 - 148		
Carbon Disulfide	75-15-0	LCS	23.2		20	116	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	21.1		20	106	62 - 132		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chlorobenzene	108-90-7	LCS	21.3		20	106	85 - 117		
Chlorodibromomethane	124-48-1	LCS	21.7		20	108	77 - 122		
Chloroethane	75-00-3	LCS	19.8		20	99.2	51 - 142		
Chloroform	67-66-3	LCS	20.8		20	104	78 - 122		
Chloromethane	74-87-3	LCS	21.2		20	106	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	22		20	110	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	21.1		20	106	81 - 121		
Cyclohexane	110-82-7	LCS	22.3		20	111	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	21.4		20	107	17 - 166		
Ethylbenzene	100-41-4	LCS	22.6		20	113	80 - 124		
Freon 113	76-13-1	LCS	23.2		20	116	50 - 130		
Isopropylbenzene	98-82-8	LCS	25.2		20	126	73 - 129		
Methyl acetate	79-20-9	LCS	19.8		20	98.8	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22.1		20	111	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.9		20	104	69 - 115		
Methylene Chloride	75-09-2	LCS	21.8		20	109	76 - 121		
mp-Xylene	108383/106423	LCS	44.4		40	111	79 - 125		
o-Xylene	95-47-6	LCS	22.7		20	113	79 - 124		
Styrene	100-42-5	LCS	23.5		20	117	79 - 123		
Tetrachloroethene	127-18-4	LCS	20		20	99.8	72 - 124		
Toluene	108-88-3	LCS	21.7		20	108	80 - 125		
Total Xylenes	1330-20-7	LCS	67.1		60	112	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.9		20	110	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	21.4		20	107	78 - 126		
Trichloroethene	79-01-6	LCS	20.6		20	103	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	22.1		20	110	38 - 123		
Vinyl Chloride	75-01-4	LCS	22.2		20	111	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	30.3	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	30	30	100	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30.2	30	101	78 - 116	
Toluene-d8	2037-26-5	LCS	30.5	30	102	76 - 127	

QC Batch

QC Batch	1356391	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391582004	3391582008	3391582009	3391582006
3391582010	3391582011	3391582012	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Matrix Spike 3919057 (MS) 3392207005 (non-Project Sample) For QC Batch 1356391

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919058 (MSD) 3392207005 (non-Project Sample) For QC Batch 1356391

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	20.4	0	20	102	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	18.4	0	20	91.9	66 - 130	RPD 10.50 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	20.9	0	20	105	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	18.2	0	20	91	74 - 135	RPD 13.90 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	20.1	0	20	100	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	17.6	0	20	88.1	82 - 126	RPD 13 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	20.5	0	20	103	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	18.3	0	20	91.5	78 - 124	RPD 11.50 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	21.1	0	20	105	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	18.5	0	20	92.6	63 - 128	RPD 12.90 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	19.7	0	20	98.3	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	17.3	0	20	86.6	61 - 126	RPD 12.70 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	22.9	0	20	115	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	21.3	0	20	106	75 - 132	RPD 7.36 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	20.2	0	20	101	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	17.9	0	20	89.4	67 - 123	RPD 12.30 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.3	0	20	107	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	18.8	0	20	94	76 - 125	RPD 12.60 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	19.6	0	20	98.1	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	17.1	0	20	85.6	59 - 133	RPD 13.60 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	20.1	0	20	100	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	18.2	0	20	91	80 - 124	RPD 9.87 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	20.5	0	20	103	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	18.3	0	20	91.4	82 - 118	RPD 11.60 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	20	0	20	100	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	17.9	0	20	89.3	70 - 133	RPD 11.30 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	20.1	0	20	101	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	17.8	0	20	88.9	81 - 127	RPD 12.40 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	21.6	0	20	108	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	18.9	0	20	94.4	76 - 125	RPD 13.50 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	20.6	0	20	103	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	18.3	0	20	91.4	81 - 118	RPD 11.70 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	20.2	0	20	101	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	17.9	0	20	89.7	81 - 116	RPD 11.80 (Max-15)	
2-Butanone	78-93-3	MS	101	0	100	101	50 - 152		
2-Butanone	78-93-3	MSD	95.3	0	100	95.3	50 - 152	RPD 6.28 (Max-16)	
2-Hexanone	591-78-6	MS	110	0	100	110	65 - 154		
2-Hexanone	591-78-6	MSD	98.4	0	100	98.4	65 - 154	RPD 10.70 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	108	0	100	108	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	96.8	0	100	96.8	71 - 146	RPD 11 (Max-16)	
Acetone	67-64-1	MS	104	0	100	104	40 - 151		
Acetone	67-64-1	MSD	91.7	0	100	91.7	40 - 151	RPD 13 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzene	71-43-2	MS	20.7	0	20	103	80 - 124		
Benzene	71-43-2	MSD	18.3	0	20	91.4	80 - 124	RPD 12.20 (Max-26)	
Bromochloromethane	74-97-5	MS	20.4	0	20	102	73 - 117		
Bromochloromethane	74-97-5	MSD	18.3	0	20	91.7	73 - 117	RPD 10.80 (Max-19)	
Bromodichloromethane	75-27-4	MS	20.1	0	20	101	79 - 126		
Bromodichloromethane	75-27-4	MSD	18.4	0	20	92.1	79 - 126	RPD 8.77 (Max-16)	
Bromoform	75-25-2	MS	18.9	0	20	94.3	70 - 123		
Bromoform	75-25-2	MSD	17.2	0	20	85.9	70 - 123	RPD 9.31 (Max-16)	
Bromomethane	74-83-9	MS	13.3	0	20	66.3	45 - 148		
Bromomethane	74-83-9	MSD	12.3	0	20	61.6	45 - 148	RPD 7.44 (Max-26)	
Carbon Disulfide	75-15-0	MS	18.9	0	20	94.5	57 - 131		
Carbon Disulfide	75-15-0	MSD	16.9	0	20	84.7	57 - 131	RPD 11 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	20.6	0	20	103	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	17.5	0	20	87.6	62 - 132	RPD 16.10 (Max-17)	
Chlorobenzene	108-90-7	MS	20.4	0	20	102	85 - 117		
Chlorobenzene	108-90-7	MSD	18	0	20	90.2	85 - 117	RPD 12.40 (Max-15)	
Chlorodibromomethane	124-48-1	MS	19.9	0	20	99.5	77 - 122		
Chlorodibromomethane	124-48-1	MSD	17.6	0	20	88	77 - 122	RPD 12.20 (Max-15)	
Chloroethane	75-00-3	MS	13.8	0	20	69.2	51 - 142		
Chloroethane	75-00-3	MSD	12.3	0	20	61.3	51 - 142	RPD 12 (Max-24)	
Chloroform	67-66-3	MS	19.3	0	20	96.5	78 - 122		
Chloroform	67-66-3	MSD	17.2	0	20	86.1	78 - 122	RPD 11.40 (Max-16)	
Chloromethane	74-87-3	MS	24.4	0	20	122	38 - 156		
Chloromethane	74-87-3	MSD	21.4	0	20	107	38 - 156	RPD 13 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	21	0	20	105	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	18.9	0	20	94.7	78 - 125	RPD 10.30 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.7	0	20	98.7	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	17.2	0	20	85.9	81 - 121	RPD 13.90 (Max-16)	
Cyclohexane	110-82-7	MS	19.3	0	20	96.4	66 - 130		
Cyclohexane	110-82-7	MSD	17.3	0	20	86.5	66 - 130	RPD 10.90 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	18.4	0	20	92.1	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	15.7	0	20	78.6	17 - 166	RPD 15.80 (Max-24)	
Ethylbenzene	100-41-4	MS	20.8	0	20	104	80 - 124		
Ethylbenzene	100-41-4	MSD	18.7	0	20	93.4	80 - 124	RPD 11 (Max-19)	
Freon 113	76-13-1	MS	18.7	0	20	93.4	50 - 130		
Freon 113	76-13-1	MSD	16.6	0	20	83.1	50 - 130	RPD 11.70 (Max-26)	
Isopropylbenzene	98-82-8	MS	22.7	0	20	114	73 - 129		
Isopropylbenzene	98-82-8	MSD	20.1	0	20	100	73 - 129	RPD 12.50 (Max-18)	
Methyl acetate	79-20-9	MS	20	0	20	100	70 - 130		
Methyl acetate	79-20-9	MSD	17.5	0	20	87.4	70 - 130	RPD 13.60 (Max-18)	
Methyl cyclohexane	108-87-2	MS	17.7	0	20	88.6	70 - 130		
Methyl cyclohexane	108-87-2	MSD	16	0	20	79.9	70 - 130	RPD 10.30 (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	20.6	0	20	103	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	18.4	0	20	91.9	69 - 115	RPD 11.30 (Max-20)	
Methylene Chloride	75-09-2	MS	19.3	0	20	96.5	76 - 121		
Methylene Chloride	75-09-2	MSD	18	0	20	90	76 - 121	RPD 6.96 (Max-17)	
mp-Xylene	108383/106423	MS	42.2	0	40	105	79 - 125		
mp-Xylene	108383/106423	MSD	37.2	0	40	92.9	79 - 125	RPD 12.60 (Max-21)	
o-Xylene	95-47-6	MS	21.2	0	20	106	79 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
o-Xylene	95-47-6	MSD	18.4	0	20	92.2	79 - 124	RPD 14.10 (Max-19)	
Styrene	100-42-5	MS	21.1	0	20	106	79 - 123		
Styrene	100-42-5	MSD	18.6	0	20	93	79 - 123	RPD 12.80 (Max-16)	
Tetrachloroethene	127-18-4	MS	18.4	0	20	91.9	72 - 124		
Tetrachloroethene	127-18-4	MSD	16	0	20	80.2	72 - 124	RPD 13.50 (Max-38)	
Toluene	108-88-3	MS	20.5	0	20	103	80 - 125		
Toluene	108-88-3	MSD	18.1	0	20	90.7	80 - 125	RPD 12.40 (Max-20)	
Total Xylenes	1330-20-7	MS	63.4	0	60	106	79 - 125		
Total Xylenes	1330-20-7	MSD	55.6	0	60	92.7	79 - 125	RPD 13.10 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	20.4	0	20	102	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	18	0	20	90	71 - 122	RPD 12.30 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	20.1	0	20	100	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	18.2	0	20	91.2	78 - 126	RPD 9.61 (Max-18)	
Trichloroethene	79-01-6	MS	19.2	0	20	95.9	77 - 124		
Trichloroethene	79-01-6	MSD	17.8	0	20	88.9	77 - 124	RPD 7.51 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	15.5	0	20	77.5	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	13.3	0	20	66.6	38 - 123	RPD 15.10 (Max-23)	
Vinyl Chloride	75-01-4	MS	20	0	20	100	27 - 138		
Vinyl Chloride	75-01-4	MSD	16.6	0	20	83.2	27 - 138	RPD 18.30 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	32	30	107	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	31	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	28.5	30	95	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.7	30	95.6	79 - 114	
Dibromofluoromethane	1868-53-7	MS	29.7	30	99	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	29.3	30	97.7	78 - 116	
Toluene-d8	2037-26-5	MS	29.7	30	99	76 - 127	
Toluene-d8	2037-26-5	MSD	29.1	30	96.9	76 - 127	

Method Blank 3919046 (MB) Created on 12/16/2024 23:48 For QC Batch 1356391

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.8	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.4	30	97.8	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.4	30	98.2	78 - 116	
Toluene-d8	2037-26-5	BLK	29.9	30	99.6	76 - 127	

Lab Control Standard 3919047 (LCS) Created on 12/16/2024 23:48 For QC Batch 1356391

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	19.5		20	97.3	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	18.7		20	93.3	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	17.9		20	89.7	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	18.7		20	93.4	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	20.6		20	103	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.9		20	99.5	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.4		20	107	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	20.8		20	104	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.1		20	100	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	17.7		20	88.7	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	18.6		20	93.2	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	19		20	95	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	18.2		20	90.9	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	18.3		20	91.3	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	20.1		20	100	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	19.1		20	95.3	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	18.8		20	93.8	81 - 116		
2-Butanone	78-93-3	LCS	97.2		100	97.2	50 - 152		
2-Hexanone	591-78-6	LCS	101		100	101	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	99.2		100	99.2	71 - 146		
Acetone	67-64-1	LCS	96.4		100	96.4	40 - 151		
Benzene	71-43-2	LCS	18.5		20	92.6	80 - 124		
Bromochloromethane	74-97-5	LCS	19		20	95.2	73 - 117		
Bromodichloromethane	75-27-4	LCS	18.5		20	92.4	79 - 126		
Bromoform	75-25-2	LCS	17.7		20	88.6	70 - 123		
Bromomethane	74-83-9	LCS	18.6		20	93	45 - 148		
Carbon Disulfide	75-15-0	LCS	19.5		20	97.4	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.9		20	99.7	62 - 132		
Chlorobenzene	108-90-7	LCS	18.3		20	91.5	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18.1		20	90.5	77 - 122		
Chloroethane	75-00-3	LCS	14.5		20	72.7	51 - 142		
Chloroform	67-66-3	LCS	17.6		20	88	78 - 122		
Chloromethane	74-87-3	LCS	22.4		20	112	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	18.8		20	93.9	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.4		20	92.1	81 - 121		
Cyclohexane	110-82-7	LCS	21.5		20	107	66 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCS	24.1		20	120	17 - 166		
Ethylbenzene	100-41-4	LCS	19.4		20	97	80 - 124		
Freon 113	76-13-1	LCS	21.9		20	109	50 - 130		
Isopropylbenzene	98-82-8	LCS	21.6		20	108	73 - 129		
Methyl acetate	79-20-9	LCS	20.4		20	102	70 - 130		
Methyl cyclohexane	108-87-2	LCS	21.3		20	107	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	18.9		20	94.5	69 - 115		
Methylene Chloride	75-09-2	LCS	18.1		20	90.6	76 - 121		
mp-Xylene	108383/106423	LCS	38.8		40	96.9	79 - 125		
o-Xylene	95-47-6	LCS	18.8		20	93.8	79 - 124		
Styrene	100-42-5	LCS	19.3		20	96.7	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.2		20	95.8	72 - 124		
Toluene	108-88-3	LCS	18.8		20	94.1	80 - 125		
Total Xylenes	1330-20-7	LCS	57.5		60	95.9	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	19		20	94.9	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.1		20	95.3	78 - 126		
Trichloroethene	79-01-6	LCS	18.4		20	92.2	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	19		20	95.2	38 - 123		
Vinyl Chloride	75-01-4	LCS	18.7		20	93.7	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.5	30	98.4	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.1	30	97	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.3	30	97.8	78 - 116	
Toluene-d8	2037-26-5	LCS	29.4	30	98	76 - 127	

QC Batch

QC Batch	1357494	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391582004 3391582009 3391582006 3391582008 3391582010

Method Blank 3921136 (MB) Created on 12/19/2024 14:01 For QC Batch 1357494

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.2	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	28.7	30	95.7	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.4	30	94.6	78 - 116	
Toluene-d8	2037-26-5	BLK	29.1	30	97.1	76 - 127	

Lab Control Standard 3921137 (LCS) Created on 12/19/2024 14:01 For QC Batch 1357494

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.3		20	107	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	19.1		20	95.7	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	18.8		20	94.1	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.1		20	101	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.2		20	106	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	21		20	105	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.6		20	108	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	21.2		20	106	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	21.3		20	107	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.3		20	91.3	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	19.5		20	97.5	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.4		20	102	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.3		20	96.4	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	19.7		20	98.4	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.5		20	108	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.7		20	103	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.1		20	100	81 - 116		
2-Butanone	78-93-3	LCS	101		100	101	50 - 152		
2-Hexanone	591-78-6	LCS	106		100	106	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	71 - 146		
Acetone	67-64-1	LCS	104		100	104	40 - 151		
Benzene	71-43-2	LCS	19.7		20	98.5	80 - 124		
Bromochloromethane	74-97-5	LCS	19.5		20	97.5	73 - 117		
Bromodichloromethane	75-27-4	LCS	19.4		20	97	79 - 126		
Bromoform	75-25-2	LCS	18.1		20	90.3	70 - 123		
Bromomethane	74-83-9	LCS	14.5		20	72.4	45 - 148		
Carbon Disulfide	75-15-0	LCS	19.7		20	98.5	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	21.2		20	106	62 - 132		
Chlorobenzene	108-90-7	LCS	19.9		20	99.7	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.2		20	96	77 - 122		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloroethane	75-00-3	LCS	14		20	70.2	51 - 142		
Chloroform	67-66-3	LCS	18.5		20	92.5	78 - 122		
Chloromethane	74-87-3	LCS	19.6		20	98	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.4		20	102	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.3		20	96.6	81 - 121		
Cyclohexane	110-82-7	LCS	23.2		20	116	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	24.6		20	123	17 - 166		
Ethylbenzene	100-41-4	LCS	20.9		20	105	80 - 124		
Freon 113	76-13-1	LCS	22.8		20	114	50 - 130		
Isopropylbenzene	98-82-8	LCS	23.2		20	116	73 - 129		
Methyl acetate	79-20-9	LCS	20.6		20	103	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22.9		20	114	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	19.7		20	98.6	69 - 115		
Methylene Chloride	75-09-2	LCS	18.7		20	93.7	76 - 121		
mp-Xylene	108383/106423	LCS	42.2		40	105	79 - 125		
o-Xylene	95-47-6	LCS	20.4		20	102	79 - 124		
Styrene	100-42-5	LCS	20.8		20	104	79 - 123		
Tetrachloroethene	127-18-4	LCS	20.2		20	101	72 - 124		
Toluene	108-88-3	LCS	20.2		20	101	80 - 125		
Total Xylenes	1330-20-7	LCS	62.5		60	104	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.2		20	101	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	20		20	99.9	78 - 126		
Trichloroethene	79-01-6	LCS	19		20	95.2	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	18.6		20	92.9	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.2		20	106	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.3	30	97.7	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	28.7	30	95.6	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.2	30	97.3	78 - 116	
Toluene-d8	2037-26-5	LCS	29.4	30	97.9	76 - 127	

QC Batch

QC Batch	1359655	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391582006

Method Blank 3922385 (MB) Created on 12/23/2024 11:10 For QC Batch 1359655

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.4	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.1	30	97	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.9	30	93.1	78 - 116	
Toluene-d8	2037-26-5	BLK	29.2	30	97.5	76 - 127	

Lab Control Standard 3922386 (LCS) Created on 12/23/2024 11:10 For QC Batch 1359655

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzene	71-43-2	LCS	20		20	100	80 - 124		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.8	30	99.5	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29	30	96.8	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.4	30	98	78 - 116	
Toluene-d8	2037-26-5	LCS	29.7	30	98.9	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1354094	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3391582005	3391582003	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Matrix Spike 3916514 (MS) 3391367002 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916515 (MSD) 3391367002 (non-Project Sample) For QC Batch 1354094

Matrix Spike 3916518 (MS) 3391395001 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	3	1.90	1	104	80 - 120		

Matrix Spike 3916521 (MS) 3391480001 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916522 (MSD) 3391480001 (non-Project Sample) For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	1.2	0	1	118	80 - 120		
Nitrate-N	NO3	MSD	1.2	0	1	118	80 - 120	RPD 0 (Max-20)	

Matrix Spike 3916525 (MS) 3391543002 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	30	29.20	1	NC	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3916695 (MS) 3391334001 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916696 (MSD) 3391334001 (non-Project Sample) For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	2.9	0	2.50	118	80 - 120		
Nitrate-N	NO3	MSD	2.9	0	2.50	118	80 - 120	RPD 0.20 (Max-20)	

Matrix Spike 3916699 (MS) 3391553001 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike 3916724 (MS) 3391609001 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	1.3	0	1	126*	80 - 120		

Method Blank 3916163 (MB) Created on 12/11/2024 06:39 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916164 (LCS) Created on 12/11/2024 06:39 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		

Lab Control Standard 3916516 (LCS) Created on 12/11/2024 11:10 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		

Method Blank 3916517 (MB) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916519 (LCS) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		

Method Blank 3916520 (MB) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916523 (LCS) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		

Method Blank 3916524 (MB) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916526 (LCS) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.4		5	107	90 - 110		

Method Blank 3916527 (MB) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916697 (LCS) Created on 12/11/2024 14:09 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.4		5	108	90 - 110		

Method Blank 3916698 (MB) Created on 12/11/2024 14:09 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916700 (LCS) Created on 12/11/2024 14:09 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.4		5	109	90 - 110		

Method Blank 3916701 (MB) Created on 12/11/2024 14:09 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Matrix Spike 3916702 (MS) 3391582011 For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916703 (MSD) 3391582011 For QC Batch 1354094

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	3	0	2.50	120	80 - 120		
Nitrate-N	NO3	MSD	3	0	2.50	120	80 - 120	RPD 0.17 (Max-20)	

Lab Control Standard 3916704 (LCS) Created on 12/11/2024 14:09 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.5		5	109	90 - 110		

Method Blank 3916705 (MB) Created on 12/11/2024 14:09 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916725 (LCS) Created on 12/11/2024 14:37 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.6		5	111*	90 - 110		

Method Blank 3916726 (MB) Created on 12/11/2024 14:37 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

QC Batch

QC Batch	1354259	Prep Method	N/A
Date	N/A	Analysis Method	SM2130B-2011
Tech.			

Associated Samples

3391582001 3391582002 3391582008 3391582009 3391582007

Duplicate 3916462 (DUP) 3391395001 (non-Project Sample) For QC Batch 1354259

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)				Qualifiers
Turbidity	Turb	DUP	0.15	0.15	RPD	0	(Max-10)	ND

Method Blank 3916460 (MB) Created on 12/11/2024 10:23 For QC Batch 1354259

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3916463 (MB) Created on 12/11/2024 10:23 For QC Batch 1354259

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3916717 (MB) Created on 12/11/2024 14:27 For QC Batch 1354259

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3916719 (DUP) 3391582007 For QC Batch 1354259

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)				Qualifiers
Turbidity	Turb	DUP	34	35	RPD	2.90	(Max-10)	

QC Batch

QC Batch	1354608	Prep Method	N/A
Date	N/A	Analysis Method	SM2130B-2011
Tech.			

Associated Samples

3391582003	3391582005	3391582004	3391582006
3391582011	3391582010		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3916937 (DUP) 3391607003 (non-Project Sample) For QC Batch 1354608

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	2.80	2.70	RPD	3.64 (Max-10)	

Method Blank 3916932 (MB) Created on 12/12/2024 07:10 For QC Batch 1354608

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3916934 (DUP) 3391582003 For QC Batch 1354608

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	70	70	RPD	0 (Max-10)	

Method Blank 3916935 (MB) Created on 12/12/2024 07:10 For QC Batch 1354608

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3916938 (MB) Created on 12/12/2024 07:10 For QC Batch 1354608

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1354645	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3391582001

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3917376 (DUP) 3391529001 (non-Project Sample) For QC Batch 1354645

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	1350	1372	RPD	1.62 (Max-5)	

Duplicate 3917377 (DUP) 3391540001 (non-Project Sample) For QC Batch 1354645

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	824	820	RPD	0.49 (Max-5)	

Method Blank 3917060 (MB) Created on 12/12/2024 09:17 For QC Batch 1354645

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3917061 (LCS) Created on 12/12/2024 09:17 For QC Batch 1354645

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	504		500	101	90 - 110		

QC Batch

QC Batch	1354647	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3391582003	3391582005	3391582002	3391582004
3391582008	3391582009	3391582007	3391582011
3391582010			

Method Blank 3917062 (MB) Created on 12/12/2024 09:18 For QC Batch 1354647

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3917063 (LCS) Created on 12/12/2024 09:18 For QC Batch 1354647

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	499		500	99.8	90 - 110		

Duplicate 3917378 (DUP) 3391582002 For QC Batch 1354647

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	824	826	RPD 0.24	(Max-5)	

Duplicate 3917379 (DUP) 3391582003 For QC Batch 1354647

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	654	678	RPD 3.60	(Max-5)	

QC Batch

QC Batch	1354777	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3391582003	3391582005	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Duplicate 3917485 (DUP) 3391335001 (non-Project Sample) For QC Batch 1354777

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	1.17	1.24	RPD	5.81	(Max-10)	J

Duplicate 3917487 (DUP) 3391507002 (non-Project Sample) For QC Batch 1354777

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	1073	1071	RPD	0.19	(Max-10)	

Duplicate 3917491 (DUP) 3391606003 (non-Project Sample) For QC Batch 1354777

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	201.10	199.90	RPD	0.60	(Max-10)	

Duplicate 3917493 (DUP) 3391609001 (non-Project Sample) For QC Batch 1354777

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	764	766	RPD	0.26	(Max-10)	

Duplicate 3917489 (DUP) 3391582004 For QC Batch 1354777

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	1090	1094	RPD	0.37	(Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1355240	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3391582003	3391582005	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Matrix Spike 3917950 (MS) 3391553001 (non-Project Sample) For QC Batch 1355240

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	474	451	25	NC	80 - 120		

Matrix Spike 3917957 (MS) 3391609001 (non-Project Sample) For QC Batch 1355240

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	23.5	11	10	125*	80 - 120		

Method Blank 3917948 (MB) Created on 12/13/2024 12:00 For QC Batch 1355240

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917949 (LCS) Created on 12/13/2024 12:00 For QC Batch 1355240

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Sulfate	SO4	LCS	50.7		50	101	90 - 110		

Lab Control Standard 3917951 (LCS) Created on 12/13/2024 12:00 For QC Batch 1355240

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.5		50	103	90 - 110		
Sulfate	SO4	LCS	51.4		50	103	90 - 110		

Method Blank 3917952 (MB) Created on 12/13/2024 12:00 For QC Batch 1355240

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3917953 (MS) 3391582011 For QC Batch 1355240

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	40.4	11	25	118	80 - 120		
Sulfate	SO4	MS	45.9	17	25	116	80 - 120		

Matrix Spike Duplicate 3917954 (MSD) 3391582011 For QC Batch 1355240

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MSD	40.3	11	25	117	80 - 120		
Sulfate	SO4	MSD	45.8	17	25	115	80 - 120		

Lab Control Standard 3917955 (LCS) Created on 12/13/2024 12:00 For QC Batch 1355240

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.4		50	103	90 - 110		
Sulfate	SO4	LCS	51.3		50	103	90 - 110		

Method Blank 3917956 (MB) Created on 12/13/2024 12:00 For QC Batch 1355240

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917958 (LCS) Created on 12/13/2024 12:00 For QC Batch 1355240

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.6		50	103	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3917959 (MB) Created on 12/13/2024 12:00 For QC Batch 1355240

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1356012	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3391582003	3391582005	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Duplicate 3918356 (DUP) 3391293006 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Alkalinity, Total	ALKT	DUP	1158.80	1162.80	RPD 0.34 (Max-20)	
pH	PH	DUP				

Duplicate 3918368 (DUP) 3391606001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	3.72	4.92	RPD	27.80* (Max-20)	ND
pH	PH	DUP	6.5810	6.5630	RPD	0.27 (Max-10)	

Duplicate 3918372 (DUP) 3391609001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	2.20	2.56	RPD	15.10 (Max-20)	ND
pH	PH	DUP	4.7120	4.7080	RPD	0.08 (Max-10)	

Duplicate 3918376 (DUP) 3391692001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	114.88	115.60	RPD	0.62 (Max-20)	
pH	PH	DUP					

Duplicate 3918380 (DUP) 3391762001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	320.44	320.76	RPD	0.10 (Max-20)	
pH	PH	DUP	8.2250	8.2180	RPD	0.09 (Max-10)	

Duplicate 3918384 (DUP) 3391762011 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	58.76	58.12	RPD	1.10	(Max-20)	
pH	PH	DUP	7.9750	7.9780	RPD	0.04	(Max-10)	

Duplicate 3918388 (DUP) 3391836002 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	293.60	295.08	RPD	0.50	(Max-20)	
pH	PH	DUP	8.2750	8.2740	RPD	0.01	(Max-10)	

Duplicate 3918392 (DUP) 3391836012 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP						
pH	PH	DUP	8.2550	8.2720	RPD	0.21	(Max-10)	

Duplicate 3918396 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP						
pH	PH	DUP	8.2860	8.2660	RPD	0.24	(Max-10)	

Duplicate 3918400 (DUP) 3391970001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	152.96	153.16	RPD	0.13	(Max-20)	
pH	PH	DUP	8.4450	8.4660	RPD	0.25	(Max-10)	

Duplicate 3918404 (DUP) 3391293001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	726.40	747.60	RPD	2.88	(Max-20)	
pH	PH	DUP						

Duplicate 3918405 (DUP) 3391293002 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	1240	1234	RPD	0.49	(Max-20)	
pH	PH	DUP						

Method Blank 3918354 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918358 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3918360 (DUP) 3391582001 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	832.80	813.20	RPD	2.38	(Max-20)	
pH	PH	DUP	8.2010	8.1320	RPD	0.84	(Max-10)	

Method Blank 3918362 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3918364 (DUP) 3391582010 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	668	687.60	RPD	2.89	(Max-20)	
pH	PH	DUP	8.1140	8.0550	RPD	0.73	(Max-10)	

Method Blank 3918366 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918370 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3918374 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918378 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918382 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918386 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918390 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918394 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	6	mg/L	5	

Method Blank 3918398 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918402 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1356448	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3391582006

Duplicate 3919484 (DUP) 3392203001 (non-Project Sample) For QC Batch 1356448

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	1762	1720	RPD	2.41 (Max-5)	

Duplicate 3919485 (DUP) 3392207006 (non-Project Sample) For QC Batch 1356448

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	422	406	RPD	3.86 (Max-5)	

Method Blank 3919293 (MB) Created on 12/17/2024 09:13 For QC Batch 1356448

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3919294 (LCS) Created on 12/17/2024 09:13 For QC Batch 1356448

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	498		500	99.6	90 - 110		

QC Batch

QC Batch	1356853	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3391582003	3391582005	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Duplicate 3919941 (DUP) 3392210002 (non-Project Sample) For QC Batch 1356853

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Acidity, Total	ACID-T	DUP	3	2	RPD	40*	(Max-20)	ND

Method Blank 3919940 (MB) Created on 12/18/2024 09:28 For QC Batch 1356853

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3919943 (MB) Created on 12/18/2024 09:28 For QC Batch 1356853

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3919944 (DUP) 3391582009 For QC Batch 1356853

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Acidity, Total	ACID-T	DUP	14	18	RPD	25* (Max-20)	

Method Blank 3919946 (MB) Created on 12/18/2024 09:28 For QC Batch 1356853

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1356895	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3391582003	3391582005	3391582002	3391582011

Duplicate 3920063 (DUP) 3391836012 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	188.44	185.20	RPD	1.73 (Max-20)	

Duplicate 3920067 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	213.12	213.36	RPD	0.11 (Max-20)	

Duplicate 3920071 (DUP) 3391890009 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	169.28	168.08	RPD 0.71	(Max-20)	

Duplicate 3920075 (DUP) 3391971001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	233.76	234.64	RPD 0.38	(Max-20)	

Duplicate 3920079 (DUP) 3392026001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	90.28	90.76	RPD 0.53	(Max-20)	

Duplicate 3920083 (DUP) 3392026002 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	79.32	78.08	RPD 1.58	(Max-20)	

Duplicate 3920087 (DUP) 3392161001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3920091 (DUP) 3392161011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			ND

Duplicate 3920095 (DUP) 3392316001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3920099 (DUP) 3392379005 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3920103 (DUP) 3392402001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3920107 (DUP) 3392412001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			ND

Method Blank 3920061 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920065 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920069 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920073 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920077 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920081 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3920085 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920089 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920093 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920097 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920101 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920105 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920109 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391582001	MW-14	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354897
		N/A	N/A	N/A		SW846 8260D	1355209
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354259
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354645
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094
3391582002	MW-28	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354897
		N/A	N/A	N/A		SW846 8260D	1355209
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354259
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1354094
		N/A	N/A	N/A		SW846 9056A	1355240
3391582003	MW-37	SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1355209
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354608
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1354094
		N/A	N/A	N/A		SW846 9056A	1355240

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391582004	MW-45	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		SW846 8260D	1357494
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354608
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094
3391582005	MW-17	SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1355209
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354608
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1354094
		N/A	N/A	N/A		SW846 9056A	1355240
3391582006	MW-13	SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1355344
		N/A	N/A	N/A		SW846 8260D	1359655
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		SW846 8260D	1357494
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354608
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1356448
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094
3391582007	MW-12	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354897
		N/A	N/A	N/A		SW846 8260D	1355209
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354259
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391582008	MW-15	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354897
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		SW846 8260D	1357494
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354259
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094
3391582009	MW-15-Dup	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1355344
		N/A	N/A	N/A		SW846 8260D	1357494
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354259
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094
3391582010	MW-16	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1355344
		N/A	N/A	N/A		SW846 8260D	1357494
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354608
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094
3391582011	MW-2	SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1371115
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1355344
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354608
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391582012	TB-41	N/A	N/A	N/A		SW846 8260D	1356391

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3391582 Logged By: CXW PM: EXP

ALS Quot

1 of 2

Client Name: Michael Baker Int'l

Address: 100 Airside Drive
Moon Twp, PA

Contact: Chris Knupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

	Container Type	G	G	P	P	P					
	Container Size	3 40 mL	1 500 mL	4 125 mL	1 125mL	1L					
	Preservative	HCl	None	HNO3	HNO3	None	MJE 12/11/24				

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chemistry					
					Enter Number of Containers Per Sample or Field Results Below.											
1	MW-14	12/10/24	935		G	GW	x3	x1	x2	x2	x2	MJE 12/11/24				
2	MW-28		1055				x3	x1	x2	x2	x2					
3	MW-37		1430				x3	x1	x2	x2	x2					
4	MW-45		1610				x	x	x	x	x					
5	MW-17		1420				x	x	x	x	x					
6	MW-13		1550				x	x	x	x	x					
7	MW-12		915				x	x	x	x	x					
8	MW-15		1115				x	x	x	x	x					
9	MW-15-DUP		1130				x	x	x	x	x					
10	MW-16		1430				x	x	x	x	x					

Temp Taken By: MJE Therm ID: 569 WO Temp (°C) 2°

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler (

Sample

Receive

Coolers

Correct

Sample

Adequa

VOA or

NJ ≤ 4

Courier/

Temp By:	WO Temp (°C)	Therm ID
MJE	2°	569

Deviations? NO YES If YES, list below

Receipt Info Completed By:	MJE
Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N NA
Cooler & Samples Intact	Y N
Correct Containers Provided	Y N
Sample Label/COC Agree	Y N
Adequate Sample Volumes	Y N
CR6 Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Trip Blank	Y N NA
NIS 4 Days?	Y N
Rad Screen (uCi)	
Courier/Tracking #:	283072244315
SDWA Compliance	Y N
PWSID	
WV Containers 0-6°C	Y N NA

Client contact:

eTech:

Sample

Report

SDWA

PWSID

PWS C

reen (uCi)

urce? Y N

urce Contact:

*No sampler - MJE 12/11/24

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

MW-45, MW-2, MW-15, MW-13, MW-16 are considered "Hot"
MW-15D

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/10/24	1800	1	Dave Gavaglia / MBI	2	Fedex
12/11/24	921	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

283072244315

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 2 of 2

ALS Quote #:

Client Name: Michael Baker Intl.

Address: 100 Airside Drive
Moon Twp., PA

Contact: Chris Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

	Container Type	Container Size	Preservative
	G	3 40 mL	HCl
	G	1 500 mL	UNP
	P	1 125 mL	HNO_3
	AG	1 1L	HNO_3
	P	1 1L	UNP
	MJE		12/10/24

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. metals + Hg 6010/7471B	Gen. Chemistry						
1	MW-2	12/10/24	1545		G	GW	X3	X1	X2	X2	X2						
2	TB-41	—	—		—	—	X2				MJE 12/11/24						
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)

Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N

Courier/Tracking #

Deviations? NO YES

If YES, list below

Client contact:

Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)

Reportable SDWA Sample(s)? Y N New Source? Y N

SDWA State of Origin? New Source Contact:

PWSID #

PWS Contact: PWS Phone #:

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time	Relinquished By / Company Name	Received By / Company Name
12/10/24	1800	1 Dave Gavisla / MBI	2 Fedex
12/11/24	921	3 Fedex	4
		5	6
		7	8
		9	10

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3391836
Report ID 380378 on 1/9/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 12, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3391836001	MW-25	Ground Water	12/11/2024 09:50	12/12/2024 09:04	CBC	Collected By Client
3391836002	MW-24	Ground Water	12/11/2024 11:15	12/12/2024 09:04	CBC	Collected By Client
3391836003	MW-24-DUP	Ground Water	12/11/2024 11:30	12/12/2024 09:04	CBC	Collected By Client
3391836004	MW-20	Ground Water	12/11/2024 12:45	12/12/2024 09:04	CBC	Collected By Client
3391836005	MW-1	Ground Water	12/11/2024 09:10	12/12/2024 09:04	CBC	Collected By Client
3391836006	MW-4	Ground Water	12/11/2024 10:50	12/12/2024 09:04	CBC	Collected By Client
3391836007	MW-5S	Ground Water	12/11/2024 12:20	12/12/2024 09:04	CBC	Collected By Client
3391836008	MW-18	Ground Water	12/11/2024 09:55	12/12/2024 09:04	CBC	Collected By Client
3391836009	MW-3	Ground Water	12/11/2024 11:25	12/12/2024 09:04	CBC	Collected By Client
3391836010	MW-7	Ground Water	12/11/2024 13:15	12/12/2024 09:04	CBC	Collected By Client
3391836011	MW-21	Ground Water	12/11/2024 13:15	12/12/2024 09:04	CBC	Collected By Client
3391836012	MW-5D	Ground Water	12/11/2024 15:40	12/12/2024 09:04	CBC	Collected By Client
3391836013	MW-23	Ground Water	12/11/2024 15:25	12/12/2024 09:04	CBC	Collected By Client
3391836014	MW-38D	Ground Water	12/11/2024 16:30	12/12/2024 09:04	CBC	Collected By Client
3391836015	TB-42	Ground Water	12/11/2024 00:00	12/12/2024 09:04	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The QC sample type DUP for method SM2310B-2011 was outside the control limits for the analyte Acidity, Total. The RPD was reported as 29.3 and the upper control limit is 20.
2	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
3	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
4	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
5	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Butylbenzylphthalate. The % Recovery was reported as 123 and the control limits were 80 to 120.
6	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Chloroethane. The % Recovery was reported as 215 and the control limits were 51 to 142.
7	The QC sample type MSD for method SW846 7470A was outside the control limits for the analyte Mercury, Total. The RPD was reported as 23 and the upper control limit is 20.
8	The QC sample type MS for method SW846 6010C was outside the control limits for the analyte Calcium, Dissolved. The % Recovery was reported as -44.2 and the control limits were 75 to 125.
9	The QC sample type MS for method SW846 6010C was outside the control limits for the analyte Magnesium, Dissolved. The % Recovery was reported as 74.4 and the control limits were 75 to 125.
11	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 64.1 and the control limits were 80 to 120.
12	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 72.5 and the control limits were 80 to 120.

Detected Results Summary

Client Sample ID	MW-25	Collected	12/11/2024 09:50
Lab Sample ID	3391836001	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.081	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.085	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	247	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	247	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0047J	mg/L	0.0056	0.0020	SW846 6010C	#
Cobalt, Dissolved	0.0033J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0040J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	15.7	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	16.8	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	39.2	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	39.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.5	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.5	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	11.5	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	11.6	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0087J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.0090J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	64.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	65.5	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	35	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	460	mg/L	50	50	SM2320B-2011	#
Chloride	103	mg/L	5.0	2.2	SW846 9056A	#
pH	8.30	pH_Units			S4500HB-11	#
Specific Conductance	1580	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	339	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1100	mg/L	25	25	SM2540C-15	#
Turbidity	130	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-24	Collected	12/11/2024 11:15
Lab Sample ID	3391836002	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0097	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.013	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	281	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	286	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0058	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0026J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0049J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	14.4	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	14.1	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	45.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	47.2	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.0	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.1	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	26.4	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	27.3	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	75.7	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	76.9	mg/L	0.56	0.18	SW846 6010C	#
VOLATILE ORGANICS						
Benzene	43.4	ug/L	1.0	0.23	SW846 8260D	#
Ethylbenzene	0.57J	ug/L	1.0	0.34	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	22	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	295	mg/L	5	5	SM2320B-2011	#
Chloride	70.9	mg/L	5.0	2.2	SW846 9056A	#
pH	8.27	pH_Units			S4500HB-11	#
Specific Conductance	1850	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	708	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1420	mg/L	25	25	SM2540C-15	#
Turbidity	75	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-24-DUP	Collected	12/11/2024 11:30
Lab Sample ID	3391836003	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0073J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.010	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	280	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	283	mg/L	0.11	0.036	SW846 6010C	#
Copper, Total	0.0050J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	14.6	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	14.7	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	45.7	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	46.3	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.0	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.1	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	26.3	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	26.8	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0089J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.011J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	75.3	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	76.3	mg/L	0.56	0.18	SW846 6010C	#
VOLATILE ORGANICS						
Benzene	37.7	ug/L	1.0	0.23	SW846 8260D	#
Carbon Disulfide	0.29J	ug/L	1.0	0.23	SW846 8260D	#
Ethylbenzene	0.52J	ug/L	1.0	0.34	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	36	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	294	mg/L	5	5	SM2320B-2011	#
Chloride	73.8	mg/L	5.0	2.2	SW846 9056A	#
pH	8.28	pH_Units			S4500HB-11	#
Specific Conductance	1850	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	697	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1380	mg/L	25	25	SM2540C-15	#
Turbidity	70	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-20	Collected	12/11/2024 12:45
Lab Sample ID	3391836004	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.037	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.038	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	122	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	121	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.80	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.80	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	40.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	40.3	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.085	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.082	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	1.9	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	2.1	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.021J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	44.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	43.9	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	22	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	397	mg/L	5	5	SM2320B-2011	#
Chloride	3.4	mg/L	2.0	0.88	SW846 9056A	#
Nitrate-N	4.5	mg/L	1.0	0.32	SW846 9056A	#
pH	8.44	pH_Units			S4500HB-11	#
Specific Conductance	929	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	112	mg/L	2.0	1.4	SW846 9056A	#
Total Dissolved Solids	638	mg/L	25	25	SM2540C-15	#
Turbidity	1.5	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-1	Collected	12/11/2024 09:10
Lab Sample ID	3391836005	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Dissolved	0.86	mg/L	0.11	0.036	SW846 6010C	#
Aluminum, Total	0.76	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.0038J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0063J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.054	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.050	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	83.8	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	77.9	mg/L	0.11	0.036	SW846 6010C	#
Potassium, Dissolved	4.9	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	4.8	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.0087J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	15.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	16.2	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Benzo(a)anthracene	0.53J	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.55J	ug/L	1.5	0.26	SW846 8270E	#
Benzo(b)fluoranthene	0.69J	ug/L	1.5	0.30	SW846 8270E	#
Benzo(g,h,i)perylene	0.58J	ug/L	1.5	0.36	SW846 8270E	#
Benzo(k)fluoranthene	0.65J	ug/L	1.5	0.34	SW846 8270E	#
bis(2-Ethylhexyl)phthalate	0.72J	ug/L	3.0	0.47	SW846 8270E	#
Butylbenzylphthalate	0.50J	ug/L	3.0	0.31	SW846 8270E	#
Chrysene	0.57J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzo(a,h)anthracene	0.65J	ug/L	1.5	0.32	SW846 8270E	#
Di-n-Octylphthalate	0.65J	ug/L	3.0	0.25	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	0.61J	ug/L	1.5	0.31	SW846 8270E	#
Pyrene	0.25J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	0.54J	ug/L	1.0	0.23	SW846 8260D	#
Carbon Disulfide	0.40J	ug/L	1.0	0.23	SW846 8260D	#
Chloroform	8.0	ug/L	1.0	0.21	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	132	mg/L	5	5	SM2320B-2011	#
Chloride	22.9	mg/L	2.0	0.88	SW846 9056A	#
pH	9.97	pH_Units			S4500HB-11	#
Specific Conductance	751	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	59.3	mg/L	2.0	1.4	SW846 9056A	#
Total Dissolved Solids	334	mg/L	25	25	SM2540C-15	#
Turbidity	1.0	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-4	Collected	12/11/2024 10:50
Lab Sample ID	3391836006	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.45	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.62	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	290	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	294	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0058	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0027J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0098J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	19.4	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	24.9	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	56.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	58.6	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.7	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.8	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	15.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	15.8	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0091J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	154	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	155	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	81	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	721	mg/L	50	50	SM2320B-2011	#
Chloride	336	mg/L	5.0	2.2	SW846 9056A	#
pH	8.27	pH_Units			S4500HB-11	#
Specific Conductance	204	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	151	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1440	mg/L	25	25	SM2540C-15	#
Turbidity	160	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-5S	Collected	12/11/2024 12:20
Lab Sample ID	3391836007	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.037	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.039	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	257	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	260	mg/L	0.11	0.036	SW846 6010C	#
Copper, Total	0.0040J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	4.3	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	4.7	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	29.5	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	30.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.79	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.77	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	29.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	33.0	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0079J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.013J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	61.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	64.1	mg/L	0.56	0.18	SW846 6010C	#
Zinc, Total	0.070	mg/L	0.022	0.0073	SW846 6010C	#
VOLATILE ORGANICS						
Benzene	0.41J	ug/L	1.0	0.23	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	10	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	206	mg/L	5	5	SM2320B-2011	#
Chloride	60.9	mg/L	5.0	2.2	SW846 9056A	#
pH	8.32	pH_Units			S4500HB-11	#
Specific Conductance	1590	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	640	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1210	mg/L	25	25	SM2540C-15	#
Turbidity	55	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-18	Collected	12/11/2024 09:55
Lab Sample ID	3391836008	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.078J	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.025	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.029	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.26	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.27	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	225	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	226	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0028J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	16.2	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	17.2	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	35.8	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	36.6	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.4	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.4	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	9.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	10	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	57.7	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	58.7	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	36	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	402	mg/L	5	5	SM2320B-2011	#
Chloride	102	mg/L	5.0	2.2	SW846 9056A	#
pH	8.35	pH_Units			S4500HB-11	#
Specific Conductance	1420	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	282	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	992	mg/L	25	25	SM2540C-15	#
Turbidity	180	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-3	Collected	12/11/2024 11:25
Lab Sample ID	3391836009	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Total	0.0064J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.10	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.10	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	206	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	213	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0022J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0053J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	9.5	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	9.9	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	33.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	34.1	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.29	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.29	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	14.2	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	14.4	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	64.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	66.0	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	14	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	268	mg/L	5	5	SM2320B-2011	#
Chloride	89.6	mg/L	5.0	2.2	SW846 9056A	#
pH	8.35	pH_Units			S4500HB-11	#
Specific Conductance	1400	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	418	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1020	mg/L	25	25	SM2540C-15	#
Turbidity	100	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-7	Collected	12/11/2024 13:15
Lab Sample ID	3391836010	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0066J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.011	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.050	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.051	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	206	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	211	mg/L	0.11	0.036	SW846 6010C	#
Cobalt, Total	0.0036J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	2.8	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	3.2	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	36.2	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	36.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.34	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.34	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	8.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	8.7	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.021J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.0093J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	39.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	40.2	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	22	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	321	mg/L	5	5	SM2320B-2011	#
Chloride	72.1	mg/L	5.0	2.2	SW846 9056A	#
pH	8.32	pH_Units			S4500HB-11	#
Specific Conductance	1280	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	317	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	928	mg/L	25	25	SM2540C-15	#
Turbidity	35	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-21	Collected	12/11/2024 13:15
Lab Sample ID	3391836011	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.041	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.041	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	222	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	229	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0024J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0040J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.11	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.13	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	7.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	7.7	mg/L	0.11	0.036	SW846 6010C	#
Potassium, Dissolved	8.8	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	8.9	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0097J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.018J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	135	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	138	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	1.9J	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	2.1	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	0.51J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	0.75J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	0.45J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	2.6J	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	0.39J	ug/L	3.0	0.25	SW846 8270E	#
Fluorene	0.37J	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	11.3	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	46.2	ug/L	1.5	0.65	SW846 8270E	#
o-Cresol	6.6	ug/L	3.0	0.50	SW846 8270E	#
Phenol	16.9	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	13.7	ug/L	5.0	1.2	SW846 8260D	#
Toluene	1.4J	ug/L	5.0	1.2	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	67	mg/L	5	5	SM2320B-2011	#
Chloride	194	mg/L	5.0	2.2	SW846 9056A	#
pH	9.29	pH_Units			S4500HB-11	#
Specific Conductance	1640	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	570	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1180	mg/L	25	25	SM2540C-15	#
Turbidity	3.1	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-5D	Collected	12/11/2024 15:40
Lab Sample ID	3391836012	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.048	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.049	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	341	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	351	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0024J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0039J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0053J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	13.1	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	13.4	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	45.7	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	45.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.81	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.83	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	16.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	16.4	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.010J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	78.1	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	78.5	mg/L	0.56	0.18	SW846 6010C	#
Zinc, Total	0.13	mg/L	0.022	0.0073	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	20	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	185	mg/L	5	5	SM2320B-2011	#
Chloride	125	mg/L	5.0	2.2	SW846 9056A	#
pH	8.27	pH_Units			S4500HB-11	#
Specific Conductance	2040	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	882	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1640	mg/L	25	25	SM2540C-15	#
Turbidity	130	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-23	Collected	12/11/2024 15:25
Lab Sample ID	3391836013	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Dissolved	0.014J	mg/L	0.022	0.010	SW846 6010C	#
Barium, Dissolved	0.063	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.064	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	186	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	197	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0022J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0024J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0038J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0060J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.22	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.22	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	51.0	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	52.2	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.035	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.036	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	6.8	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	7.0	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.12	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.13	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	81.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	82.2	mg/L	0.56	0.18	SW846 6010C	#
VOLATILE ORGANICS						
Benzene	21.6	ug/L	5.0	1.2	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	19	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	325	mg/L	5	5	SM2320B-2011	#
Chloride	63.2	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	37.9	mg/L	2.5	0.80	SW846 9056A	#
pH	8.42	pH_Units			S4500HB-11	#
Specific Conductance	1530	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	299	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1070	mg/L	25	25	SM2540C-15	#
Turbidity	1.5	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-38D	Collected	12/11/2024 16:30
Lab Sample ID	3391836014	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.020	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.020	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	329	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	337	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0047J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0042J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0068J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.014	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	3.3	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	3.3	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	76.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	77.1	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.35	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.33	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.2	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.21	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.21	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	17.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	17.9	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	40	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	382	mg/L	5	5	SM2320B-2011	#
Chloride	9.4	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	39.8	mg/L	2.5	0.80	SW846 9056A	#
pH	8.28	pH_Units			S4500HB-11	#
Specific Conductance	1870	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	601	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1510	mg/L	25	25	SM2540C-15	#
Turbidity	1.1	NTU	0.30	0.30	SM2130B-2011	#

Results

Client Sample ID	MW-25	Collected	12/11/2024 09:50
Lab Sample ID	3391836001	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:01	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:34	MSY	E1
Barium, Dissolved	0.081		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Barium, Total	0.085		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Calcium, Dissolved	247		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Calcium, Total	247		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Chromium, Total	0.0047J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Cobalt, Dissolved	0.0033J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Copper, Total	0.0040J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Iron, Dissolved	15.7		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Iron, Total	16.8		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Magnesium, Dissolved	39.2		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Magnesium, Total	39.7		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Manganese, Dissolved	1.5		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Manganese, Total	1.5		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:23	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:14	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Potassium, Dissolved	11.5		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Potassium, Total	11.6		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Selenium, Dissolved	0.0087J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Selenium, Total	0.0090J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Sodium, Dissolved	64.9		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Sodium, Total	65.5		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:39	MSY	E1

Results

Client Sample ID	MW-25	Collected	12/11/2024 09:50
Lab Sample ID	3391836001	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 00:19	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 00:19	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 00:19	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 00:19	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 00:19	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 00:19	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 00:19	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 00:19	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 00:19	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 00:19	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 00:19	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 00:19	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 00:19	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 00:19	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D

Results

Client Sample ID	MW-25	Collected	12/11/2024 09:50
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 00:19	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 00:19	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 00:19	M1O	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 00:19	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 00:19	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 00:19	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 00:19	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 00:19	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 00:19	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 00:19	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 00:19	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	76.6%	23 – 131	12/18/2024 00:19	
2-Fluorobiphenyl	321-60-8	75%	24 – 116	12/18/2024 00:19	
2-Fluorophenol	367-12-4	53.5%	10 – 85	12/18/2024 00:19	
Nitrobenzene-d5	4165-60-0	79.8%	32 – 125	12/18/2024 00:19	
Phenol-d5	4165-62-2	42.2%	7 – 56	12/18/2024 00:19	
Terphenyl-d14	98904-43-9	60.9%	41 – 145	12/18/2024 00:19	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 13:09	TMP	A

Results

Client Sample ID	MW-25	Collected	12/11/2024 09:50
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 13:09	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 13:09	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 13:09	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 13:09	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 13:09	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:09	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:09	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 13:09	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 13:09	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 13:09	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:09	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:09	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 13:09	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 13:09	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:09	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 13:09	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:09	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:09	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:09	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:09	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:09	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 13:09	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 13:09	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 13:09	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 13:09	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 13:09	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:09	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 13:09	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 13:09	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:09	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:09	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 13:09	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:09	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 13:09	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 13:09	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:09	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:09	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:09	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 13:09	TMP	A

Results

Client Sample ID	MW-25	Collected	12/11/2024 09:50
Lab Sample ID	3391836001	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.3%	62 – 133	12/18/2024 13:09	
4-Bromofluorobenzene	460-00-4	95.9%	79 – 114	12/18/2024 13:09	
Dibromofluoromethane	1868-53-7	94%	78 – 116	12/18/2024 13:09	
Toluene-d8	2037-26-5	97.5%	76 – 127	12/18/2024 13:09	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	35	1,2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	460	3	mg/L	50	50	SM2320B-2011	10	12/18/2024 17:12	KMV	I
Chloride	103		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:46	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 19:46	J1W	I
pH	8.30	4	pH_Units			S4500HB-11	1	12/16/2024 23:39	KMV	I
Specific Conductance	1580		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	339		mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 19:46	J1W	I
Total Dissolved Solids	1100		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	130		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-24	Collected	12/11/2024 11:15
Lab Sample ID	3391836002	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:02	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Arsenic, Dissolved	0.0097		mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Arsenic, Total	0.013		mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:36	MSY	E1
Barium, Dissolved	0.12		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Barium, Total	0.12		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Calcium, Dissolved	281		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Calcium, Total	286		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Chromium, Dissolved	0.0058		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Chromium, Total	0.0026J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Copper, Total	0.0049J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Iron, Dissolved	14.4		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Iron, Total	14.1		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Magnesium, Dissolved	45.6		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Magnesium, Total	47.2		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Manganese, Dissolved	1.0		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Manganese, Total	1.1		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:28	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:17	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Potassium, Dissolved	26.4		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Potassium, Total	27.3		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Sodium, Dissolved	75.7		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Sodium, Total	76.9		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:40	MSY	E1

Results

Client Sample ID	MW-24	Collected	12/11/2024 11:15
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 01:33	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 01:33	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 01:33	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:33	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 01:33	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 01:33	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 01:33	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 01:33	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 01:33	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 01:33	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 01:33	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:33	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 01:33	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 01:33	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D

Results

Client Sample ID	MW-24	Collected	12/11/2024 11:15
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 01:33	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 01:33	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 01:33	M1O	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 01:33	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 01:33	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 01:33	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 01:33	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 01:33	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 01:33	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 01:33	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 01:33	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	64.1%	23 – 131	12/18/2024 01:33	
2-Fluorobiphenyl	321-60-8	60.6%	24 – 116	12/18/2024 01:33	
2-Fluorophenol	367-12-4	43.6%	10 – 85	12/18/2024 01:33	
Nitrobenzene-d5	4165-60-0	64.8%	32 – 125	12/18/2024 01:33	
Phenol-d5	4165-62-2	34.3%	7 – 56	12/18/2024 01:33	
Terphenyl-d14	98904-43-9	48%	41 – 145	12/18/2024 01:33	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 13:29	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 13:29	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 13:29	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 13:29	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 13:29	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 13:29	TMP	A
Benzene	43.4		ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:29	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:29	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 13:29	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 13:29	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 13:29	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:29	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:29	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 13:29	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 13:29	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:29	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 13:29	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:29	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:29	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:29	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:29	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:29	TMP	A
Ethylbenzene	0.57J	J	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 13:29	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 13:29	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 13:29	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 13:29	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 13:29	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:29	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 13:29	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 13:29	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:29	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:29	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 13:29	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:29	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 13:29	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 13:29	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:29	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:29	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:29	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 13:29	TMP	A

Results

Client Sample ID	MW-24	Collected	12/11/2024 11:15
Lab Sample ID	3391836002	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/18/2024 13:29	
4-Bromofluorobenzene	460-00-4	92.6%	79 – 114	12/18/2024 13:29	
Dibromofluoromethane	1868-53-7	98.2%	78 – 116	12/18/2024 13:29	
Toluene-d8	2037-26-5	101%	76 – 127	12/18/2024 13:29	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	22	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	295	3	mg/L	5	5	SM2320B-2011	1	12/16/2024 23:51	KMV	I
Chloride	70.9		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:58	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 19:58	J1W	I
pH	8.27	4	pH_Units			S4500HB-11	1	12/16/2024 23:51	KMV	I
Specific Conductance	1850		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	708		mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 13:44	J1W	I
Total Dissolved Solids	1420		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	75		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-24-DUP	Collected	12/11/2024 11:30
Lab Sample ID	3391836003	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:03	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Arsenic, Dissolved	0.0073J	J	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Arsenic, Total	0.010		mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:37	MSY	E1
Barium, Dissolved	0.12		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Barium, Total	0.12		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Calcium, Dissolved	280		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Calcium, Total	283		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Copper, Total	0.0050J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Iron, Dissolved	14.6		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Iron, Total	14.7		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Magnesium, Dissolved	45.7		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Magnesium, Total	46.3		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Manganese, Dissolved	1.0		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Manganese, Total	1.1		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:12	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:11	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Potassium, Dissolved	26.3		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Potassium, Total	26.8		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Selenium, Dissolved	0.0089J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Selenium, Total	0.011J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Sodium, Dissolved	75.3		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Sodium, Total	76.3		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:41	MSY	E1

Results

Client Sample ID	MW-24-DUP	Collected	12/11/2024 11:30
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 02:22	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 02:22	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 02:22	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 02:22	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 02:22	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 02:22	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 02:22	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 02:22	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 02:22	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 02:22	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 02:22	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 02:22	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 02:22	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 02:22	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 02:22	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 02:22	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 02:22	M1O	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 02:22	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 02:22	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 02:22	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 02:22	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 02:22	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 02:22	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 02:22	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 02:22	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	70.8%	23 – 131	12/18/2024 02:22	
2-Fluorobiphenyl	321-60-8	79.5%	24 – 116	12/18/2024 02:22	
2-Fluorophenol	367-12-4	44.1%	10 – 85	12/18/2024 02:22	
Nitrobenzene-d5	4165-60-0	82.1%	32 – 125	12/18/2024 02:22	
Phenol-d5	4165-62-2	41.2%	7 – 56	12/18/2024 02:22	
Terphenyl-d14	98904-43-9	73.1%	41 – 145	12/18/2024 02:22	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 13:48	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 13:48	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 13:48	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 13:48	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 13:48	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 13:48	TMP	A
Benzene	37.7		ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:48	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:48	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 13:48	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 13:48	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 13:48	TMP	A
Carbon Disulfide	0.29J	J	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:48	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:48	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 13:48	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 13:48	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:48	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 13:48	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:48	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:48	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:48	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:48	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:48	TMP	A
Ethylbenzene	0.52J	J	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 13:48	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 13:48	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 13:48	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 13:48	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 13:48	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:48	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 13:48	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 13:48	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:48	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:48	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 13:48	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:48	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 13:48	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 13:48	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:48	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:48	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:48	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 13:48	TMP	A

Results

Client Sample ID	MW-24-DUP	Collected	12/11/2024 11:30
Lab Sample ID	3391836003	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/18/2024 13:48	
4-Bromofluorobenzene	460-00-4	91.3%	79 – 114	12/18/2024 13:48	
Dibromofluoromethane	1868-53-7	98.2%	78 – 116	12/18/2024 13:48	
Toluene-d8	2037-26-5	102%	76 – 127	12/18/2024 13:48	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	36	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	294	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 17:25	KMV	I
Chloride	73.8		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 20:09	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 20:09	J1W	I
pH	8.28	4	pH_Units			S4500HB-11	1	12/17/2024 00:47	KMV	I
Specific Conductance	1850		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	697		mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 13:55	J1W	I
Total Dissolved Solids	1380		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	70		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-20	Collected	12/11/2024 12:45
Lab Sample ID	3391836004	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:04	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:38	MSY	E1
Barium, Dissolved	0.037		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Barium, Total	0.038		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Calcium, Dissolved	122		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Calcium, Total	121		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Chromium, Total	0.0021J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Iron, Dissolved	0.80		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Iron, Total	0.80		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Magnesium, Dissolved	40.9		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Magnesium, Total	40.3		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Manganese, Dissolved	0.085		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Manganese, Total	0.082		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:17	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:07	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Potassium, Dissolved	1.9		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Potassium, Total	2.1		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Selenium, Dissolved	0.021J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 09:38	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Sodium, Dissolved	44.0		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Sodium, Total	43.9		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:42	MSY	E1

Results

Client Sample ID	MW-20	Collected	12/11/2024 12:45
Lab Sample ID	3391836004	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 16:58	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 16:58	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 16:58	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 16:58	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 16:58	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 16:58	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 16:58	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 16:58	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 16:58	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 16:58	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 16:58	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 16:58	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 16:58	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 16:58	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D

Results

Client Sample ID	MW-20	Collected	12/11/2024 12:45
Lab Sample ID	3391836004	Lab Receipt	12/12/2024 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 16:58	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 16:58	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 16:58	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 16:58	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 16:58	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 16:58	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 16:58	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 16:58	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 16:58	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 16:58	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 16:58	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	94.7%	23 – 131	12/18/2024 16:58	
2-Fluorobiphenyl	321-60-8	83.8%	24 – 116	12/18/2024 16:58	
2-Fluorophenol	367-12-4	58.2%	10 – 85	12/18/2024 16:58	
Nitrobenzene-d5	4165-60-0	85.5%	32 – 125	12/18/2024 16:58	
Phenol-d5	4165-62-2	43.9%	7 – 56	12/18/2024 16:58	
Terphenyl-d14	98904-43-9	75.4%	41 – 145	12/18/2024 16:58	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 14:08	TMP	A

Results

Client Sample ID	MW-20	Collected	12/11/2024 12:45
Lab Sample ID	3391836004	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 14:08	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 14:08	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 14:08	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 14:08	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 14:08	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:08	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:08	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 14:08	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 14:08	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 14:08	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:08	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:08	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 14:08	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 14:08	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:08	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 14:08	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:08	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:08	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:08	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:08	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:08	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 14:08	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 14:08	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 14:08	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 14:08	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 14:08	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:08	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 14:08	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 14:08	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:08	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:08	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 14:08	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:08	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 14:08	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 14:08	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:08	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:08	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:08	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 14:08	TMP	A

Results

Client Sample ID	MW-20	Collected	12/11/2024 12:45
Lab Sample ID	3391836004	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99%	62 – 133	12/18/2024 14:08	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	12/18/2024 14:08	
Dibromofluoromethane	1868-53-7	94.3%	78 – 116	12/18/2024 14:08	
Toluene-d8	2037-26-5	99.7%	76 – 127	12/18/2024 14:08	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	22	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	397	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 17:43	KMV	I
Chloride	3.4		mg/L	2.0	0.88	SW846 9056A	2	12/12/2024 21:18	J1W	I
Nitrate-N	4.5		mg/L	1.0	0.32	SW846 9056A	2	12/12/2024 21:18	J1W	I
pH	8.44	4	pH_Units			S4500HB-11	1	12/17/2024 01:04	KMV	I
Specific Conductance	929		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	112		mg/L	2.0	1.4	SW846 9056A	2	12/12/2024 21:18	J1W	I
Total Dissolved Solids	638		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	1.5		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-1	Collected	12/11/2024 09:10
Lab Sample ID	3391836005	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	0.86		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Aluminum, Total	0.76		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:06	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Arsenic, Dissolved	0.0038J	J	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Arsenic, Total	0.0063J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:39	MSY	E1
Barium, Dissolved	0.054		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Barium, Total	0.050		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Calcium, Dissolved	83.8		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Calcium, Total	77.9		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Iron, Dissolved	ND	ND	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Iron, Total	ND	ND	mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Magnesium, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Magnesium, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Manganese, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Manganese, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:18	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:15	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Potassium, Dissolved	4.9		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Potassium, Total	4.8		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Selenium, Total	0.0087J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Sodium, Dissolved	15.9		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Sodium, Total	16.2		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:43	MSY	E1

Results

Client Sample ID	MW-1	Collected	12/11/2024 09:10
Lab Sample ID	3391836005	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/17/2024 23:55	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/17/2024 23:55	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/17/2024 23:55	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/17/2024 23:55	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/17/2024 23:55	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/17/2024 23:55	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Benzo(a)anthracene	0.53J	J	ug/L	1.5	0.28	SW846 8270E	1	12/17/2024 23:55	M1O	D
Benzo(a)pyrene	0.55J	J	ug/L	1.5	0.26	SW846 8270E	1	12/17/2024 23:55	M1O	D
Benzo(b)fluoranthene	0.69J	J	ug/L	1.5	0.30	SW846 8270E	1	12/17/2024 23:55	M1O	D
Benzo(g,h,i)perylene	0.58J	J	ug/L	1.5	0.36	SW846 8270E	1	12/17/2024 23:55	M1O	D
Benzo(k)fluoranthene	0.65J	J	ug/L	1.5	0.34	SW846 8270E	1	12/17/2024 23:55	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
bis(2-Ethylhexyl)phthalate	0.72J	J	ug/L	3.0	0.47	SW846 8270E	1	12/17/2024 23:55	M1O	D
Butylbenzylphthalate	0.50J	J	ug/L	3.0	0.31	SW846 8270E	1	12/17/2024 23:55	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/17/2024 23:55	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D

Results

Client Sample ID	MW-1	Collected	12/11/2024 09:10
Lab Sample ID	3391836005	Lab Receipt	12/12/2024 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.57J	J	ug/L	1.5	0.26	SW846 8270E	1	12/17/2024 23:55	M1O	D
Dibenzo(a,h)anthracene	0.65J	J	ug/L	1.5	0.32	SW846 8270E	1	12/17/2024 23:55	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/17/2024 23:55	M1O	D
Di-n-Octylphthalate	0.65J	J	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/17/2024 23:55	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/17/2024 23:55	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Indeno(1,2,3-cd)pyrene	0.61J	J	ug/L	1.5	0.31	SW846 8270E	1	12/17/2024 23:55	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/17/2024 23:55	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/17/2024 23:55	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/17/2024 23:55	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/17/2024 23:55	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/17/2024 23:55	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
Pyrene	0.25J	J	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	91.3%	23 – 131	12/17/2024 23:55	
2-Fluorobiphenyl	321-60-8	78.2%	24 – 116	12/17/2024 23:55	
2-Fluorophenol	367-12-4	60%	10 – 85	12/17/2024 23:55	
Nitrobenzene-d5	4165-60-0	84.1%	32 – 125	12/17/2024 23:55	
Phenol-d5	4165-62-2	45.2%	7 – 56	12/17/2024 23:55	
Terphenyl-d14	98904-43-9	102%	41 – 145	12/17/2024 23:55	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 14:28	TMP	A

Results

Client Sample ID	MW-1	Collected	12/11/2024 09:10
Lab Sample ID	3391836005	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 14:28	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 14:28	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 14:28	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 14:28	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 14:28	TMP	A
Benzene	0.54J	J	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:28	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:28	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 14:28	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 14:28	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 14:28	TMP	A
Carbon Disulfide	0.40J	J	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:28	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:28	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 14:28	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 14:28	TMP	A
Chloroethane	ND	ND,6	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:28	TMP	A
Chloroform	8.0		ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 14:28	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:28	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:28	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:28	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:28	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:28	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 14:28	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 14:28	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 14:28	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 14:28	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 14:28	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:28	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 14:28	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 14:28	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:28	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:28	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 14:28	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:28	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 14:28	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 14:28	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:28	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:28	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:28	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 14:28	TMP	A

Results

Client Sample ID	MW-1	Collected	12/11/2024 09:10
Lab Sample ID	3391836005	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 – 133	12/18/2024 14:28	
4-Bromofluorobenzene	460-00-4	92%	79 – 114	12/18/2024 14:28	
Dibromofluoromethane	1868-53-7	104%	78 – 116	12/18/2024 14:28	
Toluene-d8	2037-26-5	103%	76 – 127	12/18/2024 14:28	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	132	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 17:52	KMV	I
Chloride	22.9		mg/L	2.0	0.88	SW846 9056A	2	12/12/2024 21:29	J1W	I
Nitrate-N	ND	ND	mg/L	1.0	0.32	SW846 9056A	2	12/12/2024 21:29	J1W	I
pH	9.97	4	pH_Units			S4500HB-11	1	12/17/2024 01:15	KMV	I
Specific Conductance	751		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	59.3		mg/L	2.0	1.4	SW846 9056A	2	12/12/2024 21:29	J1W	I
Total Dissolved Solids	334		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	1.0		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-4	Collected	12/11/2024 10:50
Lab Sample ID	3391836006	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:07	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:40	MSY	E1
Barium, Dissolved	0.45		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Barium, Total	0.62		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Calcium, Dissolved	290		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Calcium, Total	294		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Chromium, Dissolved	0.0058		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Chromium, Total	0.0027J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Copper, Total	0.0098J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Iron, Dissolved	19.4		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Iron, Total	24.9		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Magnesium, Dissolved	56.9		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Magnesium, Total	58.6		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Manganese, Dissolved	1.7		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Manganese, Total	1.8		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:22	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:12	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Potassium, Dissolved	15.6		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Potassium, Total	15.8		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Selenium, Dissolved	0.0091J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Sodium, Dissolved	154		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Sodium, Total	155		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:44	MSY	E1

Results

Client Sample ID	MW-4	Collected	12/11/2024 10:50
Lab Sample ID	3391836006	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 01:08	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 01:08	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 01:08	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:08	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 01:08	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 01:08	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 01:08	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 01:08	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 01:08	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 01:08	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 01:08	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:08	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 01:08	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 01:08	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D

Results

Client Sample ID	MW-4	Collected	12/11/2024 10:50
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 01:08	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 01:08	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 01:08	M1O	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 01:08	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 01:08	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 01:08	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 01:08	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 01:08	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 01:08	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 01:08	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 01:08	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	80.3%	23 – 131	12/18/2024 01:08	
2-Fluorobiphenyl	321-60-8	70.7%	24 – 116	12/18/2024 01:08	
2-Fluorophenol	367-12-4	49.6%	10 – 85	12/18/2024 01:08	
Nitrobenzene-d5	4165-60-0	71.8%	32 – 125	12/18/2024 01:08	
Phenol-d5	4165-62-2	39.5%	7 – 56	12/18/2024 01:08	
Terphenyl-d14	98904-43-9	52.8%	41 – 145	12/18/2024 01:08	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 14:48	TMP	A

Results

Client Sample ID	MW-4	Collected	12/11/2024 10:50
Lab Sample ID	3391836006	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 14:48	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 14:48	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 14:48	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 14:48	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 14:48	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:48	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:48	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 14:48	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 14:48	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 14:48	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:48	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:48	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 14:48	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 14:48	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:48	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 14:48	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:48	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:48	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:48	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:48	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:48	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 14:48	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 14:48	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 14:48	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 14:48	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 14:48	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:48	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 14:48	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 14:48	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:48	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:48	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 14:48	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:48	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 14:48	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 14:48	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:48	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:48	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:48	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 14:48	TMP	A

Results

Client Sample ID	MW-4	Collected	12/11/2024 10:50
Lab Sample ID	3391836006	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.5%	62 – 133	12/18/2024 14:48	
4-Bromofluorobenzene	460-00-4	99.5%	79 – 114	12/18/2024 14:48	
Dibromofluoromethane	1868-53-7	96%	78 – 116	12/18/2024 14:48	
Toluene-d8	2037-26-5	103%	76 – 127	12/18/2024 14:48	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	81	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	721	3	mg/L	50	50	SM2320B-2011	10	12/18/2024 18:04	KMV	I
Chloride	336		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 21:40	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 21:40	J1W	I
pH	8.27	4	pH_Units			S4500HB-11	1	12/17/2024 01:26	KMV	I
Specific Conductance	204		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	151		mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 21:40	J1W	I
Total Dissolved Solids	1440		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	160		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-5S	Collected	12/11/2024 12:20
Lab Sample ID	3391836007	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:08	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:41	MSY	E1
Barium, Dissolved	0.037		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Barium, Total	0.039		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Calcium, Dissolved	257		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Calcium, Total	260		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Copper, Total	0.0040J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Iron, Dissolved	4.3		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Iron, Total	4.7		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Magnesium, Dissolved	29.5		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Magnesium, Total	30.4		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Manganese, Dissolved	0.79		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Manganese, Total	0.77		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:16	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:13	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Potassium, Dissolved	29.6		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Potassium, Total	33.0		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Selenium, Dissolved	0.0079J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Selenium, Total	0.013J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Sodium, Dissolved	61.9		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Sodium, Total	64.1		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Zinc, Total	0.070		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:51	MSY	E1

Results

Client Sample ID	MW-5S	Collected	12/11/2024 12:20
Lab Sample ID	3391836007	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 16:34	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 16:34	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 16:34	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 16:34	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 16:34	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 16:34	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 16:34	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 16:34	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 16:34	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 16:34	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 16:34	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 16:34	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 16:34	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 16:34	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D

Results

Client Sample ID	MW-5S	Collected	12/11/2024 12:20
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 16:34	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 16:34	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 16:34	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 16:34	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 16:34	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 16:34	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 16:34	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 16:34	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 16:34	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 16:34	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 16:34	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	104%	23 – 131	12/18/2024 16:34	
2-Fluorobiphenyl	321-60-8	90.1%	24 – 116	12/18/2024 16:34	
2-Fluorophenol	367-12-4	61%	10 – 85	12/18/2024 16:34	
Nitrobenzene-d5	4165-60-0	92.1%	32 – 125	12/18/2024 16:34	
Phenol-d5	4165-62-2	45.7%	7 – 56	12/18/2024 16:34	
Terphenyl-d14	98904-43-9	85.8%	41 – 145	12/18/2024 16:34	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 15:08	TMP	A

Results

Client Sample ID	MW-5S	Collected	12/11/2024 12:20
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 15:08	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 15:08	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 15:08	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 15:08	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 15:08	TMP	A
Benzene	0.41J	J	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 15:08	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 15:08	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 15:08	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 15:08	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 15:08	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 15:08	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 15:08	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 15:08	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 15:08	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 15:08	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 15:08	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 15:08	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 15:08	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 15:08	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 15:08	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 15:08	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 15:08	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 15:08	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 15:08	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 15:08	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 15:08	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 15:08	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 15:08	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 15:08	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 15:08	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 15:08	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 15:08	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 15:08	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 15:08	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 15:08	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 15:08	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 15:08	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 15:08	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 15:08	TMP	A

Results

Client Sample ID	MW-5S	Collected	12/11/2024 12:20
Lab Sample ID	3391836007	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/18/2024 15:08	
4-Bromofluorobenzene	460-00-4	93.8%	79 – 114	12/18/2024 15:08	
Dibromofluoromethane	1868-53-7	99.4%	78 – 116	12/18/2024 15:08	
Toluene-d8	2037-26-5	104%	76 – 127	12/18/2024 15:08	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	10	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	206	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 18:16	KMV	I
Chloride	60.9		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 21:52	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 21:52	J1W	I
pH	8.32	4	pH_Units			S4500HB-11	1	12/17/2024 01:41	KMV	I
Specific Conductance	1590		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	640		mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 14:07	J1W	I
Total Dissolved Solids	1210		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	55		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-18	Collected	12/11/2024 09:55
Lab Sample ID	3391836008	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Aluminum, Total	0.078J	J	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:09	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Arsenic, Dissolved	0.025		mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Arsenic, Total	0.029		mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:50	MSY	E1
Barium, Dissolved	0.26		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Barium, Total	0.27		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Calcium, Dissolved	225		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Calcium, Total	226		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Chromium, Total	0.0028J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Iron, Dissolved	16.2		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Iron, Total	17.2		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Magnesium, Dissolved	35.8		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Magnesium, Total	36.6		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Manganese, Dissolved	1.4		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Manganese, Total	1.4		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:25	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:18	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Potassium, Dissolved	9.7		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Potassium, Total	10		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Sodium, Dissolved	57.7		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Sodium, Total	58.7		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:52	MSY	E1

Results

Client Sample ID	MW-18	Collected	12/11/2024 09:55
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 00:44	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 00:44	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 00:44	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 00:44	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 00:44	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 00:44	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 00:44	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 00:44	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 00:44	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 00:44	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 00:44	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 00:44	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 00:44	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 00:44	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 00:44	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 00:44	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 00:44	M1O	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 00:44	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 00:44	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 00:44	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 00:44	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 00:44	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 00:44	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 00:44	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 00:44	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	77.2%	23 – 131	12/18/2024 00:44	
2-Fluorobiphenyl	321-60-8	76.7%	24 – 116	12/18/2024 00:44	
2-Fluorophenol	367-12-4	49.9%	10 – 85	12/18/2024 00:44	
Nitrobenzene-d5	4165-60-0	80.9%	32 – 125	12/18/2024 00:44	
Phenol-d5	4165-62-2	42.7%	7 – 56	12/18/2024 00:44	
Terphenyl-d14	98904-43-9	68.2%	41 – 145	12/18/2024 00:44	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/19/2024 14:41	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 14:41	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/19/2024 14:41	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/19/2024 14:41	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/19/2024 14:41	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/19/2024 14:41	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 14:41	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 14:41	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 14:41	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/19/2024 14:41	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/19/2024 14:41	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 14:41	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 14:41	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/19/2024 14:41	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 14:41	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 14:41	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/19/2024 14:41	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 14:41	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 14:41	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 14:41	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 14:41	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 14:41	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 14:41	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 14:41	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 14:41	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/19/2024 14:41	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 14:41	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 14:41	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 14:41	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/19/2024 14:41	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 14:41	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 14:41	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/19/2024 14:41	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 14:41	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/19/2024 14:41	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 14:41	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 14:41	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 14:41	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 14:41	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 14:41	TMP	A

Results

Client Sample ID	MW-18	Collected	12/11/2024 09:55
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/19/2024 14:41	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	12/19/2024 14:41	
Dibromofluoromethane	1868-53-7	96.3%	78 – 116	12/19/2024 14:41	
Toluene-d8	2037-26-5	101%	76 – 127	12/19/2024 14:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	36	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	402	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 19:19	KMV	I
Chloride	102		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 22:03	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 22:03	J1W	I
pH	8.35	4	pH_Units			S4500HB-11	1	12/17/2024 01:58	KMV	I
Specific Conductance	1420		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	282		mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 22:03	J1W	I
Total Dissolved Solids	992		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	180		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-3	Collected	12/11/2024 11:25
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Arsenic, Total	0.0064J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:51	MSY	E1
Barium, Dissolved	0.10		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Barium, Total	0.10		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Calcium, Dissolved	206		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Calcium, Total	213		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Chromium, Dissolved	0.0022J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Chromium, Total	0.0053J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Iron, Dissolved	9.5		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Iron, Total	9.9		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Magnesium, Dissolved	33.4		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Magnesium, Total	34.1		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Manganese, Dissolved	0.29		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Manganese, Total	0.29		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:26	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:04	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Potassium, Dissolved	14.2		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Potassium, Total	14.4		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Sodium, Dissolved	64.6		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Sodium, Total	66.0		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:53	MSY	E1

Results

Client Sample ID	MW-3	Collected	12/11/2024 11:25
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 01:57	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 01:57	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 01:57	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:57	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 01:57	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 01:57	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 01:57	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 01:57	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 01:57	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 01:57	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 01:57	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:57	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 01:57	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 01:57	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D

Results

Client Sample ID	MW-3	Collected	12/11/2024 11:25
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 01:57	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 01:57	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 01:57	M1O	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 01:57	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 01:57	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 01:57	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 01:57	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 01:57	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 01:57	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 01:57	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 01:57	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	66.5%	23 – 131	12/18/2024 01:57	
2-Fluorobiphenyl	321-60-8	64%	24 – 116	12/18/2024 01:57	
2-Fluorophenol	367-12-4	43.1%	10 – 85	12/18/2024 01:57	
Nitrobenzene-d5	4165-60-0	67.1%	32 – 125	12/18/2024 01:57	
Phenol-d5	4165-62-2	34.6%	7 – 56	12/18/2024 01:57	
Terphenyl-d14	98904-43-9	59.7%	41 – 145	12/18/2024 01:57	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/19/2024 15:01	TMP	A

Results

Client Sample ID	MW-3	Collected	12/11/2024 11:25
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 15:01	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/19/2024 15:01	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/19/2024 15:01	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/19/2024 15:01	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/19/2024 15:01	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:01	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:01	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 15:01	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/19/2024 15:01	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/19/2024 15:01	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:01	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:01	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/19/2024 15:01	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 15:01	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:01	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/19/2024 15:01	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:01	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:01	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:01	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:01	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:01	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 15:01	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 15:01	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 15:01	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/19/2024 15:01	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 15:01	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:01	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 15:01	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/19/2024 15:01	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:01	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:01	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/19/2024 15:01	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:01	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/19/2024 15:01	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 15:01	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:01	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:01	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:01	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 15:01	TMP	A

Results

Client Sample ID	MW-3	Collected	12/11/2024 11:25
Lab Sample ID	3391836009	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	12/19/2024 15:01	
4-Bromofluorobenzene	460-00-4	95.1%	79 – 114	12/19/2024 15:01	
Dibromofluoromethane	1868-53-7	103%	78 – 116	12/19/2024 15:01	
Toluene-d8	2037-26-5	105%	76 – 127	12/19/2024 15:01	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	14	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	268	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 19:31	KMV	I
Chloride	89.6		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 22:15	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 22:15	J1W	I
pH	8.35	4	pH_Units			S4500HB-11	1	12/17/2024 02:14	KMV	I
Specific Conductance	1400		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	418		mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 22:15	J1W	I
Total Dissolved Solids	1020		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	100		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-7	Collected	12/11/2024 13:15
Lab Sample ID	3391836010	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Arsenic, Dissolved	0.0066J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Arsenic, Total	0.011		mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:53	MSY	E1
Barium, Dissolved	0.050		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Barium, Total	0.051		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Calcium, Dissolved	206		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Calcium, Total	211		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Cobalt, Total	0.0036J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Iron, Dissolved	2.8		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Iron, Total	3.2		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Magnesium, Dissolved	36.2		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Magnesium, Total	36.5		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Manganese, Dissolved	0.34		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Manganese, Total	0.34		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:24	AJN	G2
Mercury, Total	ND	ND,7	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:19	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Potassium, Dissolved	8.7		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Potassium, Total	8.7		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Selenium, Dissolved	0.021J	J	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Selenium, Total	0.0093J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 09:53	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Sodium, Dissolved	39.9		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Sodium, Total	40.2		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:55	MSY	E1

Results

Client Sample ID	MW-7	Collected	12/11/2024 13:15
Lab Sample ID	3391836010	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 17:22	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 17:22	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 17:22	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 17:22	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 17:22	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 17:22	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 17:22	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 17:22	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 17:22	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 17:22	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 17:22	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 17:22	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 17:22	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 17:22	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D

Results

Client Sample ID	MW-7	Collected	12/11/2024 13:15
Lab Sample ID	3391836010	Lab Receipt	12/12/2024 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 17:22	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 17:22	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 17:22	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 17:22	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 17:22	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 17:22	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 17:22	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 17:22	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 17:22	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 17:22	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 17:22	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	83.8%	23 – 131	12/18/2024 17:22	
2-Fluorobiphenyl	321-60-8	71.9%	24 – 116	12/18/2024 17:22	
2-Fluorophenol	367-12-4	42.9%	10 – 85	12/18/2024 17:22	
Nitrobenzene-d5	4165-60-0	64.3%	32 – 125	12/18/2024 17:22	
Phenol-d5	4165-62-2	34.1%	7 – 56	12/18/2024 17:22	
Terphenyl-d14	98904-43-9	61.6%	41 – 145	12/18/2024 17:22	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/19/2024 15:21	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 15:21	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/19/2024 15:21	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/19/2024 15:21	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/19/2024 15:21	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/19/2024 15:21	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:21	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:21	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 15:21	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/19/2024 15:21	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/19/2024 15:21	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:21	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:21	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/19/2024 15:21	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 15:21	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:21	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/19/2024 15:21	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:21	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:21	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:21	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:21	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:21	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 15:21	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 15:21	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 15:21	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/19/2024 15:21	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 15:21	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:21	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 15:21	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/19/2024 15:21	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:21	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:21	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/19/2024 15:21	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:21	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/19/2024 15:21	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 15:21	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:21	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:21	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:21	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 15:21	TMP	A

Results

Client Sample ID	MW-7	Collected	12/11/2024 13:15
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/19/2024 15:21	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	12/19/2024 15:21	
Dibromofluoromethane	1868-53-7	96.2%	78 – 116	12/19/2024 15:21	
Toluene-d8	2037-26-5	102%	76 – 127	12/19/2024 15:21	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	22	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	321	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 19:44	KMV	I
Chloride	72.1		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 22:26	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 22:26	J1W	I
pH	8.32	4	pH_Units			S4500HB-11	1	12/17/2024 02:29	KMV	I
Specific Conductance	1280		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	317		mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 22:26	J1W	I
Total Dissolved Solids	928		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	35		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-21	Collected	12/11/2024 13:15
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:54	MSY	E1
Barium, Dissolved	0.041		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Barium, Total	0.041		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Calcium, Dissolved	222		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Calcium, Total	229		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Chromium, Dissolved	0.0024J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Copper, Total	0.0040J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Iron, Dissolved	0.11		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Iron, Total	0.13		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Magnesium, Dissolved	7.4		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Magnesium, Total	7.7		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Manganese, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Manganese, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:12	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:45	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Potassium, Dissolved	8.8		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Potassium, Total	8.9		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Selenium, Dissolved	0.0097J	J	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Selenium, Total	0.018J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Sodium, Dissolved	135		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Sodium, Total	138		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:56	MSY	E1

Results

Client Sample ID	MW-21	Collected	12/11/2024 13:15
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,4-Dimethylphenol	1.9J	J	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 17:47	CGS	D
2-Methylnaphthalene	2.1		ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 17:47	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 17:47	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 17:47	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 17:47	CGS	D
Acenaphthene	0.51J	J	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Acenaphthylene	0.75J	J	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 17:47	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 17:47	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 17:47	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 17:47	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 17:47	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 17:47	CGS	D
Biphenyl	0.45J	J	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 17:47	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 17:47	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 17:47	CGS	D
Carbazole	2.6J	J	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D

Results

Client Sample ID	MW-21	Collected	12/11/2024 13:15
Lab Sample ID	3391836011	Lab Receipt	12/12/2024 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 17:47	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 17:47	CGS	D
Dibenzofuran	0.39J	J	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 17:47	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Fluorene	0.37J	J	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 17:47	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 17:47	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 17:47	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 17:47	CGS	D
mp-Cresol	11.3		ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
Naphthalene	46.2		ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 17:47	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 17:47	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 17:47	CGS	D
o-Cresol	6.6		ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 17:47	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Phenol	16.9		ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	93.4%	23 – 131	12/18/2024 17:47	
2-Fluorobiphenyl	321-60-8	82.9%	24 – 116	12/18/2024 17:47	
2-Fluorophenol	367-12-4	55.7%	10 – 85	12/18/2024 17:47	
Nitrobenzene-d5	4165-60-0	80.6%	32 – 125	12/18/2024 17:47	
Phenol-d5	4165-62-2	43.2%	7 – 56	12/18/2024 17:47	
Terphenyl-d14	98904-43-9	77.2%	41 – 145	12/18/2024 17:47	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	10.0	4.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	10.0	3.0	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	10.0	4.1	SW846 8260D	5	12/19/2024 16:21	TMP	A

Results

Client Sample ID	MW-21	Collected	12/11/2024 13:15
Lab Sample ID	3391836011	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	35.0	7.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	5.0	1.9	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	5.0	1.0	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:21	TMP	A
2-Butanone	ND	ND	ug/L	50.0	9.0	SW846 8260D	5	12/19/2024 16:21	TMP	A
2-Hexanone	ND	ND	ug/L	25.0	6.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	25.0	7.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
Acetone	ND	ND	ug/L	50.0	15.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
Benzene	13.7		ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:21	TMP	A
Bromochloromethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
Bromodichloromethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:21	TMP	A
Bromoform	ND	ND	ug/L	5.0	2.0	SW846 8260D	5	12/19/2024 16:21	TMP	A
Bromomethane	ND	ND	ug/L	5.0	2.0	SW846 8260D	5	12/19/2024 16:21	TMP	A
Carbon Disulfide	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:21	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
Chlorobenzene	ND	ND	ug/L	5.0	0.95	SW846 8260D	5	12/19/2024 16:21	TMP	A
Chlorodibromomethane	ND	ND	ug/L	5.0	2.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
Chloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
Chloroform	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/19/2024 16:21	TMP	A
Chloromethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
Cyclohexane	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
Ethylbenzene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
Freon 113	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
Isopropylbenzene	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/19/2024 16:21	TMP	A
Methyl acetate	ND	ND	ug/L	10.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
Methyl cyclohexane	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
Methylene Chloride	ND	ND	ug/L	5.0	2.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
mp-Xylene	ND	ND	ug/L	10.0	2.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
o-Xylene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
Styrene	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:21	TMP	A
Tetrachloroethene	ND	ND	ug/L	5.0	1.8	SW846 8260D	5	12/19/2024 16:21	TMP	A
Toluene	1.4J	J	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:21	TMP	A
Total Xylenes	ND	ND	ug/L	15.0	3.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
Trichloroethene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:21	TMP	A
Vinyl Chloride	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:21	TMP	A

Results

Client Sample ID	MW-21	Collected	12/11/2024 13:15
Lab Sample ID	3391836011	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/19/2024 16:21	
4-Bromofluorobenzene	460-00-4	97.6%	79 – 114	12/19/2024 16:21	
Dibromofluoromethane	1868-53-7	96.9%	78 – 116	12/19/2024 16:21	
Toluene-d8	2037-26-5	100%	76 – 127	12/19/2024 16:21	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	67	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 19:55	KMV	I
Chloride	194		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 22:38	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 22:38	J1W	I
pH	9.29	4	pH_Units			S4500HB-11	1	12/17/2024 02:41	KMV	I
Specific Conductance	1640		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	570		mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 14:18	J1W	I
Total Dissolved Solids	1180		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	3.1		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-5D	Collected	12/11/2024 15:40
Lab Sample ID	3391836012	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:55	MSY	E1
Barium, Dissolved	0.048		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Barium, Total	0.049		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Calcium, Dissolved	341	8	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Calcium, Total	351		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Chromium, Dissolved	0.0024J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Copper, Dissolved	0.0039J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Copper, Total	0.0053J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Iron, Dissolved	13.1		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Iron, Total	13.4		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Magnesium, Dissolved	45.7	9	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Magnesium, Total	45.7		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Manganese, Dissolved	0.81		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Manganese, Total	0.83		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:21	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:51	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Potassium, Dissolved	16.1		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Potassium, Total	16.4		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Selenium, Total	0.010J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Sodium, Dissolved	78.1		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Sodium, Total	78.5		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Zinc, Total	0.13		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:57	MSY	E1

Results

Client Sample ID	MW-5D	Collected	12/11/2024 15:40
Lab Sample ID	3391836012	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 18:36	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 18:36	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 18:36	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 18:36	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 18:36	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 18:36	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 18:36	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 18:36	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 18:36	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 18:36	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 18:36	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 18:36	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 18:36	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 18:36	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 18:36	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 18:36	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 18:36	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 18:36	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 18:36	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 18:36	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 18:36	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 18:36	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 18:36	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 18:36	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 18:36	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	87.6%	23 – 131	12/18/2024 18:36	
2-Fluorobiphenyl	321-60-8	87.2%	24 – 116	12/18/2024 18:36	
2-Fluorophenol	367-12-4	58.2%	10 – 85	12/18/2024 18:36	
Nitrobenzene-d5	4165-60-0	86.7%	32 – 125	12/18/2024 18:36	
Phenol-d5	4165-62-2	46.5%	7 – 56	12/18/2024 18:36	
Terphenyl-d14	98904-43-9	73.6%	41 – 145	12/18/2024 18:36	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/19/2024 15:41	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 15:41	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/19/2024 15:41	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/19/2024 15:41	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/19/2024 15:41	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/19/2024 15:41	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:41	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:41	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 15:41	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/19/2024 15:41	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/19/2024 15:41	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:41	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:41	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/19/2024 15:41	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 15:41	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:41	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/19/2024 15:41	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:41	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:41	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:41	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:41	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:41	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 15:41	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 15:41	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 15:41	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/19/2024 15:41	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 15:41	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:41	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 15:41	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/19/2024 15:41	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:41	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:41	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/19/2024 15:41	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:41	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/19/2024 15:41	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 15:41	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:41	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:41	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:41	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 15:41	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	12/19/2024 15:41	
4-Bromofluorobenzene	460-00-4	91.4%	79 – 114	12/19/2024 15:41	
Dibromofluoromethane	1868-53-7	99.8%	78 – 116	12/19/2024 15:41	
Toluene-d8	2037-26-5	104%	76 – 127	12/19/2024 15:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	20	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	185	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 15:47	KMV	I
Chloride	125		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 22:49	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 22:49	J1W	I
pH	8.27	4	pH_Units			S4500HB-11	1	12/17/2024 02:52	KMV	I
Specific Conductance	2040		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	882		mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 14:30	J1W	I
Total Dissolved Solids	1640		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	130		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-23	Collected	12/11/2024 15:25
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Antimony, Dissolved	0.014J	J	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:56	MSY	E1
Barium, Dissolved	0.063		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Barium, Total	0.064		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Calcium, Dissolved	186		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Calcium, Total	197		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Chromium, Dissolved	0.0022J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Chromium, Total	0.0024J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Copper, Dissolved	0.0038J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Copper, Total	0.0060J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Iron, Dissolved	0.22		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Iron, Total	0.22		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Magnesium, Dissolved	51.0		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Magnesium, Total	52.2		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Manganese, Dissolved	0.035		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Manganese, Total	0.036		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:22	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:49	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Potassium, Dissolved	6.8		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Potassium, Total	7.0		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Selenium, Dissolved	0.12		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Selenium, Total	0.13		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Sodium, Dissolved	81.2		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Sodium, Total	82.2		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:58	MSY	E1

Results

Client Sample ID	MW-23	Collected	12/11/2024 15:25
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 18:12	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 18:12	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 18:12	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 18:12	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 18:12	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 18:12	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 18:12	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 18:12	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 18:12	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 18:12	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 18:12	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 18:12	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 18:12	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 18:12	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D

Results

Client Sample ID	MW-23	Collected	12/11/2024 15:25
Lab Sample ID	3391836013	Lab Receipt	12/12/2024 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 18:12	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 18:12	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 18:12	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 18:12	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 18:12	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 18:12	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 18:12	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 18:12	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 18:12	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 18:12	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 18:12	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	80.2%	23 – 131	12/18/2024 18:12	
2-Fluorobiphenyl	321-60-8	77.5%	24 – 116	12/18/2024 18:12	
2-Fluorophenol	367-12-4	48.6%	10 – 85	12/18/2024 18:12	
Nitrobenzene-d5	4165-60-0	73.7%	32 – 125	12/18/2024 18:12	
Phenol-d5	4165-62-2	39.7%	7 – 56	12/18/2024 18:12	
Terphenyl-d14	98904-43-9	58.7%	41 – 145	12/18/2024 18:12	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	10.0	4.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	10.0	3.0	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	10.0	4.1	SW846 8260D	5	12/19/2024 16:41	TMP	A

Results

Client Sample ID	MW-23	Collected	12/11/2024 15:25
Lab Sample ID	3391836013	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	35.0	7.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	5.0	1.9	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	5.0	1.0	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:41	TMP	A
2-Butanone	ND	ND	ug/L	50.0	9.0	SW846 8260D	5	12/19/2024 16:41	TMP	A
2-Hexanone	ND	ND	ug/L	25.0	6.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	25.0	7.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
Acetone	ND	ND	ug/L	50.0	15.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
Benzene	21.6		ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:41	TMP	A
Bromochloromethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
Bromodichloromethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:41	TMP	A
Bromoform	ND	ND	ug/L	5.0	2.0	SW846 8260D	5	12/19/2024 16:41	TMP	A
Bromomethane	ND	ND	ug/L	5.0	2.0	SW846 8260D	5	12/19/2024 16:41	TMP	A
Carbon Disulfide	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:41	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
Chlorobenzene	ND	ND	ug/L	5.0	0.95	SW846 8260D	5	12/19/2024 16:41	TMP	A
Chlorodibromomethane	ND	ND	ug/L	5.0	2.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
Chloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
Chloroform	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/19/2024 16:41	TMP	A
Chloromethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
Cyclohexane	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
Ethylbenzene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
Freon 113	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
Isopropylbenzene	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/19/2024 16:41	TMP	A
Methyl acetate	ND	ND	ug/L	10.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
Methyl cyclohexane	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
Methylene Chloride	ND	ND	ug/L	5.0	2.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
mp-Xylene	ND	ND	ug/L	10.0	2.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
o-Xylene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
Styrene	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:41	TMP	A
Tetrachloroethene	ND	ND	ug/L	5.0	1.8	SW846 8260D	5	12/19/2024 16:41	TMP	A
Toluene	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:41	TMP	A
Total Xylenes	ND	ND	ug/L	15.0	3.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
Trichloroethene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:41	TMP	A
Vinyl Chloride	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:41	TMP	A

Results

Client Sample ID	MW-23	Collected	12/11/2024 15:25
Lab Sample ID	3391836013	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/19/2024 16:41	
4-Bromofluorobenzene	460-00-4	90%	79 – 114	12/19/2024 16:41	
Dibromofluoromethane	1868-53-7	99%	78 – 116	12/19/2024 16:41	
Toluene-d8	2037-26-5	99.6%	76 – 127	12/19/2024 16:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	19	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	325	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 20:08	KMV	I
Chloride	63.2		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 23:01	J1W	I
Nitrate-N	37.9		mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 23:01	J1W	I
pH	8.42	4	pH_Units			S4500HB-11	1	12/17/2024 03:40	KMV	I
Specific Conductance	1530		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	299		mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 23:01	J1W	I
Total Dissolved Solids	1070		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	1.5		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-38D	Collected	12/11/2024 16:30
Lab Sample ID	3391836014	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:57	MSY	E1
Barium, Dissolved	0.020		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Barium, Total	0.020		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Calcium, Dissolved	329		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Calcium, Total	337		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Chromium, Dissolved	0.0047J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Chromium, Total	0.0042J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Copper, Dissolved	0.0068J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Copper, Total	0.014		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Iron, Dissolved	3.3		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Iron, Total	3.3		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Magnesium, Dissolved	76.6		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Magnesium, Total	77.1		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Manganese, Dissolved	0.35		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Manganese, Total	0.33		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:20	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:46	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Potassium, Dissolved	3.2		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Potassium, Total	3.2		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Selenium, Dissolved	0.21		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Selenium, Total	0.21		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Sodium, Dissolved	17.9		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Sodium, Total	17.9		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:59	MSY	E1

Results

Client Sample ID	MW-38D	Collected	12/11/2024 16:30
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 19:01	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 19:01	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 19:01	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 19:01	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 19:01	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 19:01	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 19:01	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 19:01	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 19:01	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 19:01	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 19:01	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 19:01	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 19:01	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 19:01	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D

Results

Client Sample ID	MW-38D	Collected	12/11/2024 16:30
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 19:01	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 19:01	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 19:01	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 19:01	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 19:01	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 19:01	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 19:01	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 19:01	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 19:01	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 19:01	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 19:01	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	82.8%	23 – 131	12/18/2024 19:01	
2-Fluorobiphenyl	321-60-8	78.9%	24 – 116	12/18/2024 19:01	
2-Fluorophenol	367-12-4	53.3%	10 – 85	12/18/2024 19:01	
Nitrobenzene-d5	4165-60-0	79.8%	32 – 125	12/18/2024 19:01	
Phenol-d5	4165-62-2	41.9%	7 – 56	12/18/2024 19:01	
Terphenyl-d14	98904-43-9	65.5%	41 – 145	12/18/2024 19:01	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/19/2024 16:01	TMP	A

Results

Client Sample ID	MW-38D	Collected	12/11/2024 16:30
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 16:01	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/19/2024 16:01	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/19/2024 16:01	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/19/2024 16:01	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/19/2024 16:01	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 16:01	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 16:01	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 16:01	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/19/2024 16:01	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/19/2024 16:01	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 16:01	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 16:01	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/19/2024 16:01	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 16:01	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 16:01	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/19/2024 16:01	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 16:01	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 16:01	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 16:01	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 16:01	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 16:01	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 16:01	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 16:01	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 16:01	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/19/2024 16:01	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 16:01	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 16:01	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 16:01	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/19/2024 16:01	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 16:01	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 16:01	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/19/2024 16:01	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 16:01	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/19/2024 16:01	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 16:01	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 16:01	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 16:01	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 16:01	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 16:01	TMP	A

Results

Client Sample ID	MW-38D	Collected	12/11/2024 16:30
Lab Sample ID	3391836014	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/19/2024 16:01	
4-Bromofluorobenzene	460-00-4	99.7%	79 – 114	12/19/2024 16:01	
Dibromofluoromethane	1868-53-7	95.2%	78 – 116	12/19/2024 16:01	
Toluene-d8	2037-26-5	99.4%	76 – 127	12/19/2024 16:01	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	40	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	382	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 20:21	KMV	I
Chloride	9.4		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 23:46	J1W	I
Nitrate-N	39.8		mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 23:46	J1W	I
pH	8.28	4	pH_Units			S4500HB-11	1	12/17/2024 03:57	KMV	I
Specific Conductance	1870		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	601	11,12	mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 14:41	J1W	I
Total Dissolved Solids	1510		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	1.1		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	TB-42	Collected	12/11/2024 00:00
Lab Sample ID	3391836015	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 11:42	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/19/2024 11:42	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/19/2024 11:42	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/19/2024 11:42	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/19/2024 11:42	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 11:42	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 11:42	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 11:42	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/19/2024 11:42	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/19/2024 11:42	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 11:42	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 11:42	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/19/2024 11:42	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 11:42	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 11:42	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/19/2024 11:42	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 11:42	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 11:42	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 11:42	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 11:42	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 11:42	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 11:42	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 11:42	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 11:42	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/19/2024 11:42	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 11:42	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 11:42	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 11:42	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/19/2024 11:42	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 11:42	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 11:42	TMP	A

Results

Client Sample ID	TB-42	Collected	12/11/2024 00:00
Lab Sample ID	3391836015	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/19/2024 11:42	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 11:42	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/19/2024 11:42	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 11:42	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 11:42	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 11:42	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 11:42	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 11:42	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98%	62 – 133	12/19/2024 11:42	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	12/19/2024 11:42	
Dibromofluoromethane	1868-53-7	94.4%	78 – 116	12/19/2024 11:42	
Toluene-d8	2037-26-5	96.5%	76 – 127	12/19/2024 11:42	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391836001	MW-25	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391836002	MW-24	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391836003	MW-24-DUP	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391836004	MW-20	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391836005	MW-1	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391836006	MW-4	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391836007	MW-5S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391836008	MW-18	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391836009	MW-3	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391836010	MW-7	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391836011	MW-21	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391836012	MW-5D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391836013	MW-23	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391836014	MW-38D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391836015	TB-42	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1355095	Prep Method	SW846 3015A
Date	12/13/2024 09:38	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008

Matrix Spike 3917544 (MS) 3391582002 (non-Project Sample) For QC Batch 1355095

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917545 (MSD) 3391582002 (non-Project Sample) For QC Batch 1355095

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.2	0	1.10	105	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.2	0	1.10	106	75 - 125	RPD 0.63 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.14	0	0.22	62.6*	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.15	0	0.22	65.3*	75 - 125	RPD 4.30 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.17	0.0540	0.11	106	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.17	0.0540	0.11	104	75 - 125	RPD 1.89 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0870	1.10	103	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.2	0.0870	1.10	104	75 - 125	RPD 0.44 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.24	0.000330	0.22	106	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.24	0.000330	0.22	106	75 - 125	RPD 0.57 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000330	0.11	101	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000330	0.11	101	75 - 125	RPD 0.59 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	164	163	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	164	163	1.10	NC	75 - 125	RPD 0.41 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.12	0.0016	0.11	104	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0016	0.11	104	75 - 125	RPD 0.66 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	101	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	102	75 - 125	RPD 0.75 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.1	0	1.10	103	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0	1.10	104	75 - 125	RPD 0.65 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	10.7	9.50	1.10	NC	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	10.7	9.50	1.10	NC	75 - 125	RPD 0.09 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.11	0	0.11	99.8	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.11	0	0.11	101	75 - 125	RPD 1.59 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	72.2	70.80	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	71.9	70.80	1.10	NC	75 - 125	RPD 0.39 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	1	0.91	0.11	NC	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	1	0.91	0.11	NC	75 - 125	RPD 0.20 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0	1.10	99.5	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0	1.10	100	75 - 125	RPD 0.68 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	38.1	14.70	22.20	105	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	38.4	14.70	22.20	107	75 - 125	RPD 0.67 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.2	0.0110	1.10	106	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.2	0.0110	1.10	107	75 - 125	RPD 1.57 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.13	0	0.11	113	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Silver, Dissolved	7440-22-4_D	MSD	0.13	0	0.11	114	75 - 125	RPD 1.06 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	90.2	67.20	22.20	104	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	90.4	67.20	22.20	104	75 - 125	RPD 0.16 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.11	0	0.11	97.8	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.11	0	0.11	98	75 - 125	RPD 0.20 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.053	0	0.0560	95.8	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.054	0	0.0560	97.2	75 - 125	RPD 1.45 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.53	0	0.56	94.7	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.53	0	0.56	95.1	75 - 125	RPD 0.44 (Max-20)	

Method Blank 3917542 (MB) Created on 12/13/2024 06:15 For QC Batch 1355095

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3917543 (LCS) Created on 12/13/2024 06:15 For QC Batch 1355095

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.1		1.10	103	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.19		0.22	85	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.11		0.11	99.7	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	106	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.24		0.22	106	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	105	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.1		1.10	95.7	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	106	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	106	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	102	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	105	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	105	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	107	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	113	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	105	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	22.6		22.20	102	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	109	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.4		22.20	105	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	97.1	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.053		0.0560	96	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.57		0.56	103	80 - 120		

QC Batch

QC Batch	1355096	Prep Method	SW846 3015A
Date	12/13/2024 13:28	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Matrix Spike 3917797 (MS) 3391602003 (non-Project Sample) For QC Batch 1355096

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917798 (MSD) 3391602003 (non-Project Sample) For QC Batch 1355096

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	MS	1.2	0.0150	1.10	105	75 - 125		
Aluminum, Total	7429-90-5	MSD	1.2	0.0150	1.10	105	75 - 125	RPD 0.07 (Max-20)	
Copper, Total	7440-50-8	MS	1.1	0.000670	1.10	103	75 - 125		
Copper, Total	7440-50-8	MSD	1.2	0.000670	1.10	104	75 - 125	RPD 1.07 (Max-20)	
Iron, Total	7439-89-6	MS	1.2	0.0260	1.10	105	75 - 125		
Iron, Total	7439-89-6	MSD	1.2	0.0260	1.10	106	75 - 125	RPD 0.84 (Max-20)	
Lead, Total	7439-92-1	MS	0.12	0.000670	0.11	108	75 - 125		
Lead, Total	7439-92-1	MSD	0.12	0.000670	0.11	111	75 - 125	RPD 2.45 (Max-20)	
Zinc, Total	7440-66-6	MS	0.76	0.16	0.56	107	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Zinc, Total	7440-66-6	MSD	0.77	0.16	0.56	108	75 - 125	RPD 1.23 (Max-20)	

Method Blank 3917546 (MB) Created on 12/13/2024 06:17 For QC Batch 1355096

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	0.0053J	mg/L	0.0090	J
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	0.010J	mg/L	0.022	J
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3917547 (LCS) Created on 12/13/2024 06:17 For QC Batch 1355096

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	108	80 - 120		
Antimony, Total	7440-36-0	LCS	0.24		0.22	108	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	105	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	112	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.25		0.22	112	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	111	80 - 120		
Calcium, Total	7440-70-2	LCS	1.2		1.10	107	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	111	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	108	80 - 120		
Copper, Total	7440-50-8	LCS	1.2		1.10	105	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Iron, Total	7439-89-6	LCS	1.2		1.10	108	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	111	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	112	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	109	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	109	80 - 120		
Potassium, Total	7440-09-7	LCS	23.6		22.20	106	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	111	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	110	80 - 120		
Sodium, Total	7440-23-5	LCS	24.2		22.20	109	80 - 120		
Thallium, Total	7440-28-0	LCS	0.11		0.11	97.2	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.062		0.0560	112	80 - 120		
Zinc, Total	7440-66-6	LCS	0.6		0.56	108	80 - 120		

QC Batch

QC Batch	1356093	Prep Method	SW846 7470A
Date	12/16/2024 07:57	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391836011 3391836012 3391836013 3391836014

Matrix Spike 3918431 (MS) 3391582007 (non-Project Sample) For QC Batch 1356093

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918432 (MSD) 3391582007 (non-Project Sample) For QC Batch 1356093

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0058	0.000080	0.0050	114	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0056	0.000080	0.0050	110	70 - 130	RPD 3 (Max-20)	

Method Blank 3918427 (MB) Created on 12/16/2024 06:08 For QC Batch 1356093

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3918428 (LCS) Created on 12/16/2024 06:08 For QC Batch 1356093

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0022		0.0020	109	85 - 115		

QC Batch

QC Batch	1356194	Prep Method	SW846 7470A
Date	12/16/2024 07:57	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391836011 3391836012 3391836013 3391836014

Matrix Spike 3918525 (MS) 3391582003 (non-Project Sample) For QC Batch 1356194

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918526 (MSD) 3391582003 (non-Project Sample) For QC Batch 1356194

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0056	0.000059	0.0050	110	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0055	0.000059	0.0050	108	70 - 130	RPD 1.99 (Max-20)	

Method Blank 3918523 (MB) Created on 12/16/2024 07:22 For QC Batch 1356194

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3918524 (LCS) Created on 12/16/2024 07:22 For QC Batch 1356194

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0022		0.0020	111	85 - 115		

Matrix Spike 3918527 (MS) 3391836011 For QC Batch 1356194

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918528 (MSD) 3391836011 For QC Batch 1356194

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0053	0.000065	0.0050	106	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0054	0.000065	0.0050	106	70 - 130	RPD 0.19 (Max-20)	

QC Batch

QC Batch	1356408	Prep Method	SW846 7470A
Date	12/17/2024 07:40	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010		

Method Blank 3919104 (MB) Created on 12/17/2024 06:46 For QC Batch 1356408

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3919105 (LCS) Created on 12/17/2024 06:46 For QC Batch 1356408

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0019		0.0020	96	85 - 115		

Matrix Spike 3919106 (MS) 3391836009 For QC Batch 1356408

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919107 (MSD) 3391836009 For QC Batch 1356408

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0041	0.000026	0.0050	81.9	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0047	0.000026	0.0050	94.1	70 - 130	RPD 13.80 (Max-20)	

Matrix Spike 3919108 (MS) 3391836010 For QC Batch 1356408

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919109 (MSD) 3391836010 For QC Batch 1356408

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0038	0.000041	0.0050	75.4	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0.000041	0.0050	95.2	70 - 130	RPD 23* (Max-20)	

QC Batch

QC Batch	1356412	Prep Method	SW846 7470A
Date	12/17/2024 07:40	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010		

Method Blank 3919120 (MB) Created on 12/17/2024 06:57 For QC Batch 1356412

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3919121 (LCS) Created on 12/17/2024 06:57 For QC Batch 1356412

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0017		0.0020	86.5	85 - 115		

Matrix Spike 3919122 (MS) 3391836003 For QC Batch 1356412

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919123 (MSD) 3391836003 For QC Batch 1356412

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0049	0.000023	0.0050	96.5	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0049	0.000023	0.0050	96.7	70 - 130	RPD 0.21 (Max-20)	

Matrix Spike 3919124 (MS) 3391836002 For QC Batch 1356412

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919125 (MSD) 3391836002 For QC Batch 1356412

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0048	0.000027	0.0050	95.3	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0048	0.000027	0.0050	95.9	70 - 130	RPD 0.62 (Max-20)	

QC Batch

QC Batch	1363881	Prep Method	SW846 3015A
Date	01/03/2025 05:05	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Method Blank 3925459 (MB) Created on 01/03/2025 00:19 For QC Batch 1363881

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3925460 (LCS) Created on 01/03/2025 00:19 For QC Batch 1363881

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.1		1.10	102	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.24		0.22	106	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Arsenic, Dissolved	7440-38-2_D	LCS	0.11		0.11	98.3	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	105	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.23		0.22	106	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	105	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.1		1.10	98.6	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	106	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	108	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	103	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	105	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	104	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	105	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	116	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	107	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	22.6		22.20	102	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	107	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.2		22.20	104	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	98.4	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.055		0.0560	99.2	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.6		0.56	108	80 - 120		

Matrix Spike 3925461 (MS) 3391836012 For QC Batch 1363881

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3925462 (MSD) 3391836012 For QC Batch 1363881

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.1	0	1.10	102	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.1	0	1.10	103	75 - 125	RPD 0.89 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.24	0.0059	0.22	106	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.25	0.0059	0.22	108	75 - 125	RPD 1.28 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0	0.11	106	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.12	0	0.11	111	75 - 125	RPD 4.15 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0480	1.10	101	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.2	0.0480	1.10	102	75 - 125	RPD 0.77 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.23	0	0.22	102	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.23	0	0.22	103	75 - 125	RPD 0.73 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000110	0.11	98.6	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000110	0.11	99.6	75 - 125	RPD 1.01 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	341	341	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	343	341	1.10	NC	75 - 125	RPD 0.54 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.11	0.0024	0.11	101	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0024	0.11	101	75 - 125	RPD 0.19 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	100	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	102	75 - 125	RPD 1.60 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.1	0.0039	1.10	102	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0039	1.10	104	75 - 125	RPD 1.99 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	14.3	13.10	1.10	NC	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	14.4	13.10	1.10	NC	75 - 125	RPD 1.11 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.11	0	0.11	96.2	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.1	0	0.11	93.1	75 - 125	RPD 3.28 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	46.5	45.70	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	46.8	45.70	1.10	NC	75 - 125	RPD 0.64 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.94	0.81	0.11	NC	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.93	0.81	0.11	NC	75 - 125	RPD 0.29 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0	1.10	99.2	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0	1.10	101	75 - 125	RPD 1.81 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	39	16.10	22.20	103	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	39	16.10	22.20	103	75 - 125	RPD 0.18 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.2	0.0024	1.10	107	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.2	0.0024	1.10	107	75 - 125	RPD 0.17 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	108	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	109	75 - 125	RPD 1.11 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	101	78.10	22.20	102	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	101	78.10	22.20	103	75 - 125	RPD 0.18 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.097	0	0.11	87.1	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.1	0	0.11	94.5	75 - 125	RPD 8.15 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.052	0	0.0560	93	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.053	0	0.0560	94.6	75 - 125	RPD 1.71 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.54	0	0.56	97.1	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.55	0	0.56	98.3	75 - 125	RPD 1.21 (Max-20)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1356219	Prep Method	SW846 3510C
Date	12/16/2024 09:55	Analysis Method	SW846 8270E
Tech.	EJH		

Associated Samples

3391836001	3391836002	3391836003	3391836005
3391836006	3391836008	3391836009	

Matrix Spike 3918610 (MS) 3392207005 (non-Project Sample) For QC Batch 1356219

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918611 (MSD) 3392207005 (non-Project Sample) For QC Batch 1356219

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	MS	27.2	0	50	54.5	18 - 124		
1,2,4,5-Tetrachlorobenzene	95-94-3	MSD	25.8	0	50	51.5	18 - 124	RPD 5.65 (Max-30)	
1,4-Dioxane	123-91-1	MS	21.7	0	50	43.4	5 - 129		
1,4-Dioxane	123-91-1	MSD	21.4	0	50	42.8	5 - 129	RPD 1.45 (Max-30)	
2,3,4,6-Tetrachlorophenol	58-90-2	MS	87.3	0	100	87.3	36 - 133		
2,3,4,6-Tetrachlorophenol	58-90-2	MSD	78.8	0	100	78.8	36 - 133	RPD 10.30 (Max-30)	
2,4,5-Trichlorophenol	95-95-4	MS	92.8	0	100	92.8	44 - 148		
2,4,5-Trichlorophenol	95-95-4	MSD	81.2	0	100	81.2	44 - 148	RPD 13.40 (Max-23)	
2,4,6-Trichlorophenol	88-06-2	MS	88.2	0	100	88.2	41 - 148		
2,4,6-Trichlorophenol	88-06-2	MSD	77.8	0	100	77.8	41 - 148	RPD 12.60 (Max-23)	
2,4-Dichlorophenol	120-83-2	MS	88.8	0	100	88.8	44 - 142		
2,4-Dichlorophenol	120-83-2	MSD	78	0	100	78	44 - 142	RPD 13 (Max-30)	
2,4-Dimethylphenol	105-67-9	MS	96.9	0	100	96.9	46 - 141		
2,4-Dimethylphenol	105-67-9	MSD	88	0	100	88	46 - 141	RPD 9.54 (Max-30)	
2,4-Dinitrophenol	51-28-5	MS	84.1	0	100	84.1	21 - 140		
2,4-Dinitrophenol	51-28-5	MSD	76.1	0	100	76.1	21 - 140	RPD 9.95 (Max-30)	
2,4-Dinitrotoluene	121-14-2	MS	49.3	0	50	98.5	49 - 138		
2,4-Dinitrotoluene	121-14-2	MSD	45.3	0	50	90.6	49 - 138	RPD 8.42 (Max-22)	
2,6-Dinitrotoluene	606-20-2	MS	51.3	0	50	103	49 - 136		
2,6-Dinitrotoluene	606-20-2	MSD	46.6	0	50	93.3	49 - 136	RPD 9.60 (Max-30)	
2-Chloronaphthalene	91-58-7	MS	35.3	0	50	70.6	27 - 125		
2-Chloronaphthalene	91-58-7	MSD	32.6	0	50	65.2	27 - 125	RPD 7.91 (Max-30)	
2-Chlorophenol	95-57-8	MS	81.7	0	100	81.7	42 - 137		
2-Chlorophenol	95-57-8	MSD	76.2	0	100	76.2	42 - 137	RPD 6.89 (Max-30)	
2-Methyl-4,6-dinitrophenol	534-52-1	MS	90.4	0	100	90.4	46 - 133		
2-Methyl-4,6-dinitrophenol	534-52-1	MSD	80.3	0	100	80.3	46 - 133	RPD 11.80 (Max-30)	
2-Methylnaphthalene	91-57-6	MS	34.5	0	50	69	22 - 124		
2-Methylnaphthalene	91-57-6	MSD	31.9	0	50	63.8	22 - 124	RPD 7.83 (Max-30)	
2-Nitroaniline	88-74-4	MS	48.2	0	50	96.4	55 - 138		
2-Nitroaniline	88-74-4	MSD	44.9	0	50	89.7	55 - 138	RPD 7.18 (Max-30)	
2-Nitrophenol	88-75-5	MS	85.2	0	100	85.2	46 - 140		
2-Nitrophenol	88-75-5	MSD	77.2	0	100	77.2	46 - 140	RPD 9.92 (Max-30)	
3,3-Dichlorobenzidine	91-94-1	MS	59	0	100	59	38 - 115		
3,3-Dichlorobenzidine	91-94-1	MSD	50.1	0	100	50.1	38 - 115	RPD 16.30 (Max-30)	
3-Nitroaniline	99-09-2	MS	43.8	0	50	87.6	60 - 123		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
3-Nitroaniline	99-09-2	MSD	38.9	0	50	77.8	60 - 123	RPD 11.90 (Max-30)	
4-Bromophenyl-phenylether	101-55-3	MS	43	0	50	86	46 - 128		
4-Bromophenyl-phenylether	101-55-3	MSD	37.9	0	50	75.8	46 - 128	RPD 12.60 (Max-30)	
4-Chloro-3-methylphenol	59-50-7	MS	99.2	0	100	99.2	46 - 144		
4-Chloro-3-methylphenol	59-50-7	MSD	90.6	0	100	90.6	46 - 144	RPD 9 (Max-30)	
4-Chloroaniline	106-47-8	MS	32.9	0	50	65.7	44 - 113		
4-Chloroaniline	106-47-8	MSD	29.6	0	50	59.2	44 - 113	RPD 10.50 (Max-30)	
4-Chlorophenyl-phenylether	7005-72-3	MS	42.4	0	50	84.8	38 - 128		
4-Chlorophenyl-phenylether	7005-72-3	MSD	40.2	0	50	80.4	38 - 128	RPD 5.42 (Max-30)	
4-Nitroaniline	100-01-6	MS	45.8	0	50	91.7	53 - 124		
4-Nitroaniline	100-01-6	MSD	41.9	0	50	83.7	53 - 124	RPD 9.11 (Max-30)	
4-Nitrophenol	100-02-7	MS	60.4	0	100	60.4	5 - 108		
4-Nitrophenol	100-02-7	MSD	53.5	0	100	53.5	5 - 108	RPD 12.10 (Max-30)	
Acenaphthene	83-32-9	MS	41.4	0	50	82.8	36 - 130		
Acenaphthene	83-32-9	MSD	38.2	0	50	76.4	36 - 130	RPD 8.03 (Max-30)	
Acenaphthylene	208-96-8	MS	37.1	0	50	74.1	39 - 130		
Acenaphthylene	208-96-8	MSD	33.8	0	50	67.7	39 - 130	RPD 9.15 (Max-30)	
Acetophenone	98-86-2	MS	40.3	0	50	80.7	49 - 117		
Acetophenone	98-86-2	MSD	38.4	0	50	76.8	49 - 117	RPD 4.90 (Max-30)	
Anthracene	120-12-7	MS	47	0	50	94	48 - 133		
Anthracene	120-12-7	MSD	42.1	0	50	84.2	48 - 133	RPD 11 (Max-30)	
Atrazine	1912-24-9	MS	47.5	0	50	95	44 - 149		
Atrazine	1912-24-9	MSD	41.5	0	50	82.9	44 - 149	RPD 13.70 (Max-30)	
Benzaldehyde	100-52-7	MS	40	0	50	79.9	38 - 145		
Benzaldehyde	100-52-7	MSD	36.1	0	50	72.3	38 - 145	RPD 10.10 (Max-30)	
Benzo(a)anthracene	56-55-3	MS	44.7	0	50	89.4	51 - 127		
Benzo(a)anthracene	56-55-3	MSD	41.4	0	50	82.7	51 - 127	RPD 7.80 (Max-30)	
Benzo(a)pyrene	50-32-8	MS	45.9	0	50	91.8	53 - 127		
Benzo(a)pyrene	50-32-8	MSD	41.8	0	50	83.5	53 - 127	RPD 9.40 (Max-30)	
Benzo(b)fluoranthene	205-99-2	MS	45.7	0	50	91.4	53 - 131		
Benzo(b)fluoranthene	205-99-2	MSD	43.4	0	50	86.9	53 - 131	RPD 5.10 (Max-30)	
Benzo(g,h,i)perylene	191-24-2	MS	41.7	0	50	83.4	54 - 131		
Benzo(g,h,i)perylene	191-24-2	MSD	35.5	0	50	71	54 - 131	RPD 16 (Max-30)	
Benzo(k)fluoranthene	207-08-9	MS	47.4	0	50	94.8	52 - 130		
Benzo(k)fluoranthene	207-08-9	MSD	43	0	50	85.9	52 - 130	RPD 9.76 (Max-30)	
Biphenyl	92-52-4	MS	35.1	0	50	70.2	30 - 132		
Biphenyl	92-52-4	MSD	32.5	0	50	64.9	30 - 132	RPD 7.81 (Max-30)	
bis(2-Chloroethoxy)methane	111-91-1	MS	44.9	0	50	89.7	43 - 132		
bis(2-Chloroethoxy)methane	111-91-1	MSD	42.3	0	50	84.5	43 - 132	RPD 5.97 (Max-30)	
bis(2-Chloroethyl)ether	111-44-4	MS	41.5	0	50	82.9	41 - 128		
bis(2-Chloroethyl)ether	111-44-4	MSD	39.5	0	50	79	41 - 128	RPD 4.81 (Max-30)	
bis(2-Chloroisopropyl)ether	108-60-1	MS	41.6	0	50	83.2	32 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	MSD	39.8	0	50	79.5	32 - 128	RPD 4.54 (Max-30)	
bis(2-Ethylhexyl)phthalate	117-81-7	MS	40.3	0	50	80.5	41 - 145		
bis(2-Ethylhexyl)phthalate	117-81-7	MSD	40.4	0	50	80.9	41 - 145	RPD 0.43 (Max-30)	
Butylbenzylphthalate	85-68-7	MS	51.9	0	50	104	50 - 137		
Butylbenzylphthalate	85-68-7	MSD	49.2	0	50	98.3	50 - 137	RPD 5.47 (Max-30)	
Caprolactam	105-60-2	MS	22.2	0	50	44.3	5 - 118		
Caprolactam	105-60-2	MSD	21.4	0	50	42.8	5 - 118	RPD 3.48 (Max-30)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Carbazole	86-74-8	MS	47.2	0	50	94.3	52 - 139		
Carbazole	86-74-8	MSD	42.4	0	50	84.7	52 - 139	RPD 10.70 (Max-30)	
Chrysene	218-01-9	MS	45.7	0	50	91.3	50 - 131		
Chrysene	218-01-9	MSD	42	0	50	84.1	50 - 131	RPD 8.24 (Max-30)	
Dibenzo(a,h)anthracene	53-70-3	MS	42.6	0	50	85.3	56 - 130		
Dibenzo(a,h)anthracene	53-70-3	MSD	36.9	0	50	73.8	56 - 130	RPD 14.40 (Max-30)	
Dibenzofuran	132-64-9	MS	42.1	0	50	84.2	39 - 133		
Dibenzofuran	132-64-9	MSD	38.4	0	50	76.7	39 - 133	RPD 9.26 (Max-30)	
Diethylphthalate	84-66-2	MS	49.2	0	50	98.4	45 - 132		
Diethylphthalate	84-66-2	MSD	45.9	0	50	91.9	45 - 132	RPD 6.85 (Max-30)	
Dimethylphthalate	131-11-3	MS	45.5	0	50	90.9	44 - 131		
Dimethylphthalate	131-11-3	MSD	43.2	0	50	86.4	44 - 131	RPD 5.06 (Max-30)	
Di-n-Butylphthalate	84-74-2	MS	48.6	0	50	97.2	47 - 135		
Di-n-Butylphthalate	84-74-2	MSD	45.7	0	50	91.4	47 - 135	RPD 6.15 (Max-30)	
Di-n-Octylphthalate	117-84-0	MS	40.9	0	50	81.9	35 - 141		
Di-n-Octylphthalate	117-84-0	MSD	40.9	0	50	81.8	35 - 141	RPD 0.06 (Max-30)	
Fluoranthene	206-44-0	MS	46.1	0	50	92.3	49 - 132		
Fluoranthene	206-44-0	MSD	42.1	0	50	84.1	49 - 132	RPD 9.27 (Max-30)	
Fluorene	86-73-7	MS	44.8	0	50	89.6	42 - 131		
Fluorene	86-73-7	MSD	41.6	0	50	83.2	42 - 131	RPD 7.36 (Max-30)	
Hexachlorobenzene	118-74-1	MS	41	0	50	82.1	59 - 109		
Hexachlorobenzene	118-74-1	MSD	37.7	0	50	75.3	59 - 109	RPD 8.57 (Max-21)	
Hexachlorobutadiene	87-68-3	MS	20.6	0	50	41.1	5 - 126		
Hexachlorobutadiene	87-68-3	MSD	18.9	0	50	37.8	5 - 126	RPD 8.26 (Max-30)	
Hexachlorocyclopentadiene	77-47-4	MS	14.4	0	50	28.9	5 - 97		
Hexachlorocyclopentadiene	77-47-4	MSD	13.8	0	50	27.5	5 - 97	RPD 4.87 (Max-30)	
Hexachloroethane	67-72-1	MS	20.9	0	50	41.8	5 - 111		
Hexachloroethane	67-72-1	MSD	19.3	0	50	38.6	5 - 111	RPD 7.95 (Max-30)	
Indeno(1,2,3-cd)pyrene	193-39-5	MS	40	0	50	80.1	55 - 126		
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	34	0	50	68	55 - 126	RPD 16.40 (Max-30)	
Isophorone	78-59-1	MS	45.3	0	50	90.7	45 - 129		
Isophorone	78-59-1	MSD	42.4	0	50	84.8	45 - 129	RPD 6.68 (Max-30)	
mp-Cresol	108394/106445	MS	87.4	0	100	87.4	28 - 128		
mp-Cresol	108394/106445	MSD	82.3	0	100	82.3	28 - 128	RPD 5.96 (Max-20)	
Naphthalene	91-20-3	MS	31.4	0	50	62.8	21 - 123		
Naphthalene	91-20-3	MSD	29.4	0	50	58.9	21 - 123	RPD 6.44 (Max-30)	
Nitrobenzene	98-95-3	MS	39.5	0	50	79.1	41 - 128		
Nitrobenzene	98-95-3	MSD	37.2	0	50	74.4	41 - 128	RPD 6.11 (Max-19)	
N-Nitroso-di-n-propylamine	621-64-7	MS	45.9	0	50	91.8	46 - 133		
N-Nitroso-di-n-propylamine	621-64-7	MSD	43.4	0	50	86.8	46 - 133	RPD 5.58 (Max-30)	
N-Nitrosodiphenylamine	86-30-6	MS	47.9	0	50	95.8	58 - 125		
N-Nitrosodiphenylamine	86-30-6	MSD	44.2	0	50	88.3	58 - 125	RPD 8.18 (Max-30)	
o-Cresol	95-48-7	MS	82.6	0	100	82.6	34 - 136		
o-Cresol	95-48-7	MSD	80.3	0	100	80.3	34 - 136	RPD 2.83 (Max-23)	
Pentachlorophenol	87-86-5	MS	94.7	0	100	94.7	41 - 149		
Pentachlorophenol	87-86-5	MSD	84.3	0	100	84.3	41 - 149	RPD 11.60 (Max-28)	
Phenanthrene	85-01-8	MS	46	0	50	92.1	46 - 131		
Phenanthrene	85-01-8	MSD	40.7	0	50	81.5	46 - 131	RPD 12.20 (Max-30)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Phenol	108-95-2	MS	51.3	0	100	51.3	5 - 111		
Phenol	108-95-2	MSD	48.6	0	100	48.6	5 - 111	RPD 5.34 (Max-30)	
Pyrene	129-00-0	MS	49.3	0	50	98.6	48 - 134		
Pyrene	129-00-0	MSD	44.2	0	50	88.4	48 - 134	RPD 10.90 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	96.1	100	96.1	23 - 131	
2,4,6-Tribromophenol	118-79-6	MSD	78.9	100	78.9	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	43.3	50	86.5	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	37.2	50	74.3	24 - 116	
2-Fluorophenol	367-12-4	MS	58	100	58	10 - 85	
2-Fluorophenol	367-12-4	MSD	51.5	100	51.5	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	43.3	50	86.7	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	38.2	50	76.4	32 - 125	
Phenol-d5	4165-62-2	MS	49	100	49	7 - 56	
Phenol-d5	4165-62-2	MSD	44	100	44	7 - 56	
Terphenyl-d14	98904-43-9	MS	38.9	50	77.9	41 - 145	
Terphenyl-d14	98904-43-9	MSD	36.6	50	73.2	41 - 145	

Method Blank 3918608 (MB) Created on 12/16/2024 08:52 For QC Batch 1356219

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	86	100	86	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	37.4	50	74.8	24 - 116	
2-Fluorophenol	367-12-4	BLK	56.7	100	56.7	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	39.7	50	79.4	32 - 125	
Phenol-d5	4165-62-2	BLK	43.9	100	43.9	7 - 56	
Terphenyl-d14	98904-43-9	BLK	48.1	50	96.3	41 - 145	

Lab Control Standard 3918609 (LCS) Created on 12/16/2024 08:52 For QC Batch 1356219

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	22.4		50	44.7	18 - 124		
1,4-Dioxane	123-91-1	LCS	24		50	48	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	103		100	103	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	109		100	109	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	105		100	105	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	105		100	105	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	119		100	119	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	103		100	103	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	44.2		50	88.3	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	45.6		50	91.1	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	30.3		50	60.5	27 - 125		
2-Chlorophenol	95-57-8	LCS	101		100	101	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	107		100	107	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	29.1		50	58.1	22 - 124		
2-Nitroaniline	88-74-4	LCS	44.4		50	88.8	55 - 138		
2-Nitrophenol	88-75-5	LCS	105		100	105	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	63.8		100	63.8	38 - 115		
3-Nitroaniline	99-09-2	LCS	40.1		50	80.1	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	37.3		50	74.7	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	116		100	116	46 - 144		
4-Chloroaniline	106-47-8	LCS	31.6		50	63.2	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	37.3		50	74.5	38 - 128		
4-Nitroaniline	100-01-6	LCS	41.2		50	82.5	53 - 124		
4-Nitrophenol	100-02-7	LCS	71.3		100	71.3	5 - 108		
Acenaphthene	83-32-9	LCS	35.6		50	71.2	36 - 130		
Acenaphthylene	208-96-8	LCS	32.5		50	65.1	39 - 130		
Acetophenone	98-86-2	LCS	37.8		50	75.6	49 - 117		
Anthracene	120-12-7	LCS	41.6		50	83.3	48 - 133		
Atrazine	1912-24-9	LCS	43		50	86.1	44 - 149		
Benzaldehyde	100-52-7	LCS	38.5		50	77	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	42.3		50	84.7	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	43.9		50	87.8	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	44.8		50	89.5	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	38.9		50	77.8	54 - 131		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzo(k)fluoranthene	207-08-9	LCS	44.5		50	89.1	52 - 130		
Biphenyl	92-52-4	LCS	30.2		50	60.4	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	43		50	85.9	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	39.9		50	79.8	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	39.3		50	78.5	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	45.7		50	91.4	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	49.5		50	99	50 - 137		
Caprolactam	105-60-2	LCS	20.7		50	41.5	5 - 118		
Carbazole	86-74-8	LCS	41.6		50	83.2	52 - 139		
Chrysene	218-01-9	LCS	42.4		50	84.9	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	39.2		50	78.3	56 - 130		
Dibenzofuran	132-64-9	LCS	36.6		50	73.2	39 - 133		
Diethylphthalate	84-66-2	LCS	43.7		50	87.4	45 - 132		
Dimethylphthalate	131-11-3	LCS	41.2		50	82.4	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	45.2		50	90.3	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	45.7		50	91.3	35 - 141		
Fluoranthene	206-44-0	LCS	41.4		50	82.9	49 - 132		
Fluorene	86-73-7	LCS	39.5		50	79	42 - 131		
Hexachlorobenzene	118-74-1	LCS	37.5		50	75.1	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	17		50	34.1	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	11		50	21.9	5 - 97		
Hexachloroethane	67-72-1	LCS	17.8		50	35.7	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	36.7		50	73.5	55 - 126		
Isophorone	78-59-1	LCS	42.6		50	85.1	45 - 129		
mp-Cresol	108394/106445	LCS	107		100	107	28 - 128		
Naphthalene	91-20-3	LCS	28.2		50	56.4	21 - 123		
Nitrobenzene	98-95-3	LCS	37.8		50	75.7	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	41.7		50	83.4	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	48.4		50	96.8	58 - 125		
o-Cresol	95-48-7	LCS	103		100	103	34 - 136		
Pentachlorophenol	87-86-5	LCS	112		100	112	41 - 149		
Phenanthrene	85-01-8	LCS	40.4		50	80.7	46 - 131		
Phenol	108-95-2	LCS	67.4		100	67.4	5 - 111		
Pyrene	129-00-0	LCS	45.4		50	90.8	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	84.8	100	84.8	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	40.8	50	81.6	24 - 116	
2-Fluorophenol	367-12-4	LCS	59.4	100	59.4	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	41.9	50	83.9	32 - 125	
Phenol-d5	4165-62-2	LCS	48.9	100	48.9	7 - 56	
Terphenyl-d14	98904-43-9	LCS	46.9	50	93.8	41 - 145	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

QC Batch

QC Batch	1356521	Prep Method	SW846 3510C
Date	12/17/2024 15:30	Analysis Method	SW846 8270E
Tech.	BMP		

Associated Samples

3391836004	3391836007	3391836010	3391836011
3391836012	3391836013	3391836014	

Matrix Spike 3919520 (MS) 3392038005 (non-Project Sample) For QC Batch 1356521

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919521 (MSD) 3392038005 (non-Project Sample) For QC Batch 1356521

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	MS	32.9	0	50	65.7	18 - 124		
1,2,4,5-Tetrachlorobenzene	95-94-3	MSD	33.5	0	50	67	18 - 124	RPD 1.92 (Max-30)	
1,4-Dioxane	123-91-1	MS	23.8	0	50	47.7	5 - 129		
1,4-Dioxane	123-91-1	MSD	22.8	0	50	45.7	5 - 129	RPD 4.24 (Max-30)	
2,3,4,6-Tetrachlorophenol	58-90-2	MS	99.4	0	100	99.4	36 - 133		
2,3,4,6-Tetrachlorophenol	58-90-2	MSD	94.3	0	100	94.3	36 - 133	RPD 5.25 (Max-30)	
2,4,5-Trichlorophenol	95-95-4	MS	99.8	0	100	99.8	44 - 148		
2,4,5-Trichlorophenol	95-95-4	MSD	100	0	100	100	44 - 148	RPD 0.12 (Max-23)	
2,4,6-Trichlorophenol	88-06-2	MS	97.5	0	100	97.5	41 - 148		
2,4,6-Trichlorophenol	88-06-2	MSD	98.2	0	100	98.2	41 - 148	RPD 0.68 (Max-23)	
2,4-Dichlorophenol	120-83-2	MS	93.1	0	100	93.1	44 - 142		
2,4-Dichlorophenol	120-83-2	MSD	97.4	0	100	97.4	44 - 142	RPD 4.47 (Max-30)	
2,4-Dimethylphenol	105-67-9	MS	100	0	100	100	46 - 141		
2,4-Dimethylphenol	105-67-9	MSD	97.7	0	100	97.7	46 - 141	RPD 2.45 (Max-30)	
2,4-Dinitrophenol	51-28-5	MS	106	0	100	106	21 - 140		
2,4-Dinitrophenol	51-28-5	MSD	96.6	0	100	96.6	21 - 140	RPD 9.50 (Max-30)	
2,4-Dinitrotoluene	121-14-2	MS	51.6	0	50	103	49 - 138		
2,4-Dinitrotoluene	121-14-2	MSD	52.9	0	50	106	49 - 138	RPD 2.56 (Max-22)	
2,6-Dinitrotoluene	606-20-2	MS	54.1	0	50	108	49 - 136		
2,6-Dinitrotoluene	606-20-2	MSD	54.3	0	50	109	49 - 136	RPD 0.26 (Max-30)	
2-Chloronaphthalene	91-58-7	MS	39.9	0	50	79.9	27 - 125		
2-Chloronaphthalene	91-58-7	MSD	40.8	0	50	81.6	27 - 125	RPD 2.12 (Max-30)	
2-Chlorophenol	95-57-8	MS	86.4	0	100	86.4	42 - 137		
2-Chlorophenol	95-57-8	MSD	89.8	0	100	89.8	42 - 137	RPD 3.82 (Max-30)	
2-Methyl-4,6-dinitrophenol	534-52-1	MS	109	0	100	109	46 - 133		
2-Methyl-4,6-dinitrophenol	534-52-1	MSD	105	0	100	105	46 - 133	RPD 4.14 (Max-30)	
2-Methylnaphthalene	91-57-6	MS	39.9	0	50	79.7	22 - 124		
2-Methylnaphthalene	91-57-6	MSD	40.6	0	50	81.2	22 - 124	RPD 1.80 (Max-30)	
2-Nitroaniline	88-74-4	MS	51.3	0	50	103	55 - 138		
2-Nitroaniline	88-74-4	MSD	51.1	0	50	102	55 - 138	RPD 0.37 (Max-30)	
2-Nitrophenol	88-75-5	MS	90.9	0	100	90.9	46 - 140		
2-Nitrophenol	88-75-5	MSD	96.6	0	100	96.6	46 - 140	RPD 6.12 (Max-30)	
3,3-Dichlorobenzidine	91-94-1	MS	73.5	0	100	73.5	38 - 115		
3,3-Dichlorobenzidine	91-94-1	MSD	71	0	100	71	38 - 115	RPD 3.34 (Max-30)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
3-Nitroaniline	99-09-2	MS	46.1	0	50	92.2	60 - 123		
3-Nitroaniline	99-09-2	MSD	45.9	0	50	91.8	60 - 123	RPD 0.36 (Max-30)	
4-Bromophenyl-phenylether	101-55-3	MS	46.6	0	50	93.2	46 - 128		
4-Bromophenyl-phenylether	101-55-3	MSD	47.4	0	50	94.8	46 - 128	RPD 1.69 (Max-30)	
4-Chloro-3-methylphenol	59-50-7	MS	103	0	100	103	46 - 144		
4-Chloro-3-methylphenol	59-50-7	MSD	103	0	100	103	46 - 144	RPD 0.77 (Max-30)	
4-Chloroaniline	106-47-8	MS	34.1	0	50	68.2	44 - 113		
4-Chloroaniline	106-47-8	MSD	33	0	50	65.9	44 - 113	RPD 3.35 (Max-30)	
4-Chlorophenyl-phenylether	7005-72-3	MS	47.1	0	50	94.2	38 - 128		
4-Chlorophenyl-phenylether	7005-72-3	MSD	47.1	0	50	94.2	38 - 128	RPD 0.06 (Max-30)	
4-Nitroaniline	100-01-6	MS	47.6	0	50	95.3	53 - 124		
4-Nitroaniline	100-01-6	MSD	46.2	0	50	92.3	53 - 124	RPD 3.18 (Max-30)	
4-Nitrophenol	100-02-7	MS	67.4	0	100	67.4	5 - 108		
4-Nitrophenol	100-02-7	MSD	61.9	0	100	61.9	5 - 108	RPD 8.48 (Max-30)	
Acenaphthene	83-32-9	MS	45.1	0	50	90.1	36 - 130		
Acenaphthene	83-32-9	MSD	46.5	0	50	92.9	36 - 130	RPD 3.06 (Max-30)	
Acenaphthylene	208-96-8	MS	39.9	0	50	79.9	39 - 130		
Acenaphthylene	208-96-8	MSD	41	0	50	82	39 - 130	RPD 2.61 (Max-30)	
Acetophenone	98-86-2	MS	43	0	50	86	49 - 117		
Acetophenone	98-86-2	MSD	43.5	0	50	87	49 - 117	RPD 1.14 (Max-30)	
Anthracene	120-12-7	MS	50.1	0	50	100	48 - 133		
Anthracene	120-12-7	MSD	50.3	0	50	101	48 - 133	RPD 0.35 (Max-30)	
Atrazine	1912-24-9	MS	51.2	0	50	102	44 - 149		
Atrazine	1912-24-9	MSD	51.4	0	50	103	44 - 149	RPD 0.28 (Max-30)	
Benzaldehyde	100-52-7	MS	43.2	0	50	86.4	38 - 145		
Benzaldehyde	100-52-7	MSD	44.1	0	50	88.3	38 - 145	RPD 2.20 (Max-30)	
Benzo(a)anthracene	56-55-3	MS	48.7	0	50	97.4	51 - 127		
Benzo(a)anthracene	56-55-3	MSD	50	0	50	100	51 - 127	RPD 2.62 (Max-30)	
Benzo(a)pyrene	50-32-8	MS	49.1	0	50	98.2	53 - 127		
Benzo(a)pyrene	50-32-8	MSD	50.5	0	50	101	53 - 127	RPD 2.74 (Max-30)	
Benzo(b)fluoranthene	205-99-2	MS	52.8	0	50	106	53 - 131		
Benzo(b)fluoranthene	205-99-2	MSD	51.4	0	50	103	53 - 131	RPD 2.67 (Max-30)	
Benzo(g,h,i)perylene	191-24-2	MS	45.5	0	50	91	54 - 131		
Benzo(g,h,i)perylene	191-24-2	MSD	46.6	0	50	93.2	54 - 131	RPD 2.35 (Max-30)	
Benzo(k)fluoranthene	207-08-9	MS	51.9	0	50	104	52 - 130		
Benzo(k)fluoranthene	207-08-9	MSD	52.3	0	50	105	52 - 130	RPD 0.74 (Max-30)	
Biphenyl	92-52-4	MS	40.3	0	50	80.6	30 - 132		
Biphenyl	92-52-4	MSD	40.5	0	50	81.1	30 - 132	RPD 0.55 (Max-30)	
bis(2-Chloroethoxy)methane	111-91-1	MS	49.3	0	50	98.7	43 - 132		
bis(2-Chloroethoxy)methane	111-91-1	MSD	51.4	0	50	103	43 - 132	RPD 4.17 (Max-30)	
bis(2-Chloroethyl)ether	111-44-4	MS	44.5	0	50	88.9	41 - 128		
bis(2-Chloroethyl)ether	111-44-4	MSD	45.9	0	50	91.8	41 - 128	RPD 3.19 (Max-30)	
bis(2-Chloroisopropyl)ether	108-60-1	MS	46.3	0	50	92.7	32 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	MSD	46.6	0	50	93.3	32 - 128	RPD 0.66 (Max-30)	
bis(2-Ethylhexyl)phthalate	117-81-7	MS	56.9	0	50	114	41 - 145		
bis(2-Ethylhexyl)phthalate	117-81-7	MSD	57.2	0	50	114	41 - 145	RPD 0.51 (Max-30)	
Butylbenzylphthalate	85-68-7	MS	61.1	0	50	122	50 - 137		
Butylbenzylphthalate	85-68-7	MSD	62	0	50	124	50 - 137	RPD 1.51 (Max-30)	
Caprolactam	105-60-2	MS	22	0	50	44.1	5 - 118		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Caprolactam	105-60-2	MSD	21.7	0	50	43.3	5 - 118	RPD 1.68 (Max-30)	
Carbazole	86-74-8	MS	49.9	0	50	99.8	52 - 139		
Carbazole	86-74-8	MSD	49.1	0	50	98.1	52 - 139	RPD 1.67 (Max-30)	
Chrysene	218-01-9	MS	49.4	0	50	98.8	50 - 131		
Chrysene	218-01-9	MSD	50.5	0	50	101	50 - 131	RPD 2.13 (Max-30)	
Dibenzo(a,h)anthracene	53-70-3	MS	46.7	0	50	93.3	56 - 130		
Dibenzo(a,h)anthracene	53-70-3	MSD	47	0	50	94	56 - 130	RPD 0.69 (Max-30)	
Dibenzofuran	132-64-9	MS	45.2	0	50	90.5	39 - 133		
Dibenzofuran	132-64-9	MSD	46.1	0	50	92.2	39 - 133	RPD 1.93 (Max-30)	
Diethylphthalate	84-66-2	MS	52.6	0	50	105	45 - 132		
Diethylphthalate	84-66-2	MSD	53.4	0	50	107	45 - 132	RPD 1.51 (Max-30)	
Dimethylphthalate	131-11-3	MS	49.4	0	50	98.7	44 - 131		
Dimethylphthalate	131-11-3	MSD	49.5	0	50	99.1	44 - 131	RPD 0.37 (Max-30)	
Di-n-Butylphthalate	84-74-2	MS	55.6	0	50	111	47 - 135		
Di-n-Butylphthalate	84-74-2	MSD	55.5	0	50	111	47 - 135	RPD 0.16 (Max-30)	
Di-n-Octylphthalate	117-84-0	MS	54.8	0	50	110	35 - 141		
Di-n-Octylphthalate	117-84-0	MSD	54.9	0	50	110	35 - 141	RPD 0.21 (Max-30)	
Fluoranthene	206-44-0	MS	49.4	0	50	98.8	49 - 132		
Fluoranthene	206-44-0	MSD	48.6	0	50	97.1	49 - 132	RPD 1.68 (Max-30)	
Fluorene	86-73-7	MS	48.4	0	50	96.8	42 - 131		
Fluorene	86-73-7	MSD	49	0	50	98	42 - 131	RPD 1.23 (Max-30)	
Hexachlorobenzene	118-74-1	MS	44.8	0	50	89.6	59 - 109		
Hexachlorobenzene	118-74-1	MSD	46.4	0	50	92.7	59 - 109	RPD 3.39 (Max-21)	
Hexachlorobutadiene	87-68-3	MS	24.5	0	50	49.1	5 - 126		
Hexachlorobutadiene	87-68-3	MSD	24.1	0	50	48.2	5 - 126	RPD 1.77 (Max-30)	
Hexachlorocyclopentadiene	77-47-4	MS	17	0	50	34	5 - 97		
Hexachlorocyclopentadiene	77-47-4	MSD	17	0	50	34	5 - 97	RPD 0.0090 (Max-30)	
Hexachloroethane	67-72-1	MS	22.6	0	50	45.3	5 - 111		
Hexachloroethane	67-72-1	MSD	20.4	0	50	40.9	5 - 111	RPD 10.20 (Max-30)	
Indeno(1,2,3-cd)pyrene	193-39-5	MS	43.4	0	50	86.7	55 - 126		
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	44	0	50	88	55 - 126	RPD 1.43 (Max-30)	
Isophorone	78-59-1	MS	48.3	0	50	96.6	45 - 129		
Isophorone	78-59-1	MSD	49.9	0	50	99.7	45 - 129	RPD 3.16 (Max-30)	
mp-Cresol	108394/106445	MS	88.1	0	100	88.1	28 - 128		
mp-Cresol	108394/106445	MSD	88.9	0	100	88.9	28 - 128	RPD 0.91 (Max-20)	
Naphthalene	91-20-3	MS	35.4	0	50	70.8	21 - 123		
Naphthalene	91-20-3	MSD	36.7	0	50	73.4	21 - 123	RPD 3.71 (Max-30)	
Nitrobenzene	98-95-3	MS	42.1	0	50	84.1	41 - 128		
Nitrobenzene	98-95-3	MSD	44.2	0	50	88.3	41 - 128	RPD 4.90 (Max-19)	
N-Nitroso-di-n-propylamine	621-64-7	MS	48.8	0	50	97.5	46 - 133		
N-Nitroso-di-n-propylamine	621-64-7	MSD	48.8	0	50	97.6	46 - 133	RPD 0.07 (Max-30)	
N-Nitrosodiphenylamine	86-30-6	MS	57.7	0	50	115	58 - 125		
N-Nitrosodiphenylamine	86-30-6	MSD	59	0	50	118	58 - 125	RPD 2.24 (Max-30)	
o-Cresol	95-48-7	MS	84.4	0	100	84.4	34 - 136		
o-Cresol	95-48-7	MSD	87.1	0	100	87.1	34 - 136	RPD 3.07 (Max-23)	
Pentachlorophenol	87-86-5	MS	114	0	100	114	41 - 149		
Pentachlorophenol	87-86-5	MSD	106	0	100	106	41 - 149	RPD 6.66 (Max-28)	
Phenanthrene	85-01-8	MS	48.8	0	50	97.5	46 - 131		
Phenanthrene	85-01-8	MSD	49.3	0	50	98.6	46 - 131	RPD 1.05 (Max-30)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Phenol	108-95-2	MS	51.1	0	100	51.1	5 - 111		
Phenol	108-95-2	MSD	53.1	0	100	53.1	5 - 111	RPD 3.76 (Max-30)	
Pyrene	129-00-0	MS	53.3	0	50	107	48 - 134		
Pyrene	129-00-0	MSD	56.4	0	50	113	48 - 134	RPD 5.61 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	96.6	100	96.6	23 - 131	
2,4,6-Tribromophenol	118-79-6	MSD	96.3	100	96.3	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	44.3	50	88.7	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	45.5	50	91	24 - 116	
2-Fluorophenol	367-12-4	MS	60.1	100	60.1	10 - 85	
2-Fluorophenol	367-12-4	MSD	60.7	100	60.7	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	43.4	50	86.8	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	45.3	50	90.7	32 - 125	
Phenol-d5	4165-62-2	MS	46.7	100	46.7	7 - 56	
Phenol-d5	4165-62-2	MSD	48.3	100	48.3	7 - 56	
Terphenyl-d14	98904-43-9	MS	40.1	50	80.2	41 - 145	
Terphenyl-d14	98904-43-9	MSD	41.9	50	83.8	41 - 145	

Method Blank 3919518 (MB) Created on 12/17/2024 13:37 For QC Batch 1356521

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	70.5	100	70.5	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	39.2	50	78.4	24 - 116	
2-Fluorophenol	367-12-4	BLK	56.1	100	56.1	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	40.1	50	80.1	32 - 125	
Phenol-d5	4165-62-2	BLK	43.3	100	43.3	7 - 56	
Terphenyl-d14	98904-43-9	BLK	46.7	50	93.3	41 - 145	

Lab Control Standard 3919519 (LCS) Created on 12/17/2024 13:37 For QC Batch 1356521

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	29.3		50	58.5	18 - 124		
1,4-Dioxane	123-91-1	LCS	25.5		50	51	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	95		100	95	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	98		100	98	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	95.4		100	95.4	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	91.7		100	91.7	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	101		100	101	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	105		100	105	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	51.3		50	103	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	54.4		50	109	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	38.3		50	76.6	27 - 125		
2-Chlorophenol	95-57-8	LCS	89.5		100	89.5	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	105		100	105	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	36.6		50	73.2	22 - 124		
2-Nitroaniline	88-74-4	LCS	51.7		50	103	55 - 138		
2-Nitrophenol	88-75-5	LCS	90.9		100	90.9	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	71.9		100	71.9	38 - 115		
3-Nitroaniline	99-09-2	LCS	46.3		50	92.6	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	45.2		50	90.3	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	99.7		100	99.7	46 - 144		
4-Chloroaniline	106-47-8	LCS	33		50	65.9	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	46		50	91.9	38 - 128		
4-Nitroaniline	100-01-6	LCS	48.1		50	96.2	53 - 124		
4-Nitrophenol	100-02-7	LCS	64		100	64	5 - 108		
Acenaphthene	83-32-9	LCS	44.1		50	88.3	36 - 130		
Acenaphthylene	208-96-8	LCS	39.8		50	79.6	39 - 130		
Acetophenone	98-86-2	LCS	43.5		50	86.9	49 - 117		
Anthracene	120-12-7	LCS	49.6		50	99.3	48 - 133		
Atrazine	1912-24-9	LCS	51.4		50	103	44 - 149		
Benzaldehyde	100-52-7	LCS	44.2		50	88.5	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	49.5		50	99	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	51		50	102	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	52.8		50	106	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	44.5		50	89	54 - 131		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzo(k)fluoranthene	207-08-9	LCS	52.2		50	104	52 - 130		
Biphenyl	92-52-4	LCS	38.6		50	77.1	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	49		50	98.1	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	45.7		50	91.4	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	46.1		50	92.3	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	58.4		50	117	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	62.8		50	126	50 - 137		
Caprolactam	105-60-2	LCS	21.6		50	43.1	5 - 118		
Carbazole	86-74-8	LCS	48.9		50	97.8	52 - 139		
Chrysene	218-01-9	LCS	49.8		50	99.6	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	45.6		50	91.1	56 - 130		
Dibenzofuran	132-64-9	LCS	44.3		50	88.5	39 - 133		
Diethylphthalate	84-66-2	LCS	53		50	106	45 - 132		
Dimethylphthalate	131-11-3	LCS	49.2		50	98.5	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	56.2		50	112	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	54.9		50	110	35 - 141		
Fluoranthene	206-44-0	LCS	49.5		50	98.9	49 - 132		
Fluorene	86-73-7	LCS	47.3		50	94.7	42 - 131		
Hexachlorobenzene	118-74-1	LCS	44.7		50	89.4	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	22.2		50	44.3	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	14.3		50	28.6	5 - 97		
Hexachloroethane	67-72-1	LCS	21.2		50	42.4	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	42.3		50	84.6	55 - 126		
Isophorone	78-59-1	LCS	48.6		50	97.2	45 - 129		
mp-Cresol	108394/106445	LCS	89.5		100	89.5	28 - 128		
Naphthalene	91-20-3	LCS	33.3		50	66.5	21 - 123		
Nitrobenzene	98-95-3	LCS	42.5		50	85.1	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	48.6		50	97.2	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	57.3		50	115	58 - 125		
o-Cresol	95-48-7	LCS	87.3		100	87.3	34 - 136		
Pentachlorophenol	87-86-5	LCS	110		100	110	41 - 149		
Phenanthrene	85-01-8	LCS	47.8		50	95.6	46 - 131		
Phenol	108-95-2	LCS	53.6		100	53.6	5 - 111		
Pyrene	129-00-0	LCS	53.6		50	107	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	95.3	100	95.3	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	42.1	50	84.3	24 - 116	
2-Fluorophenol	367-12-4	LCS	62.4	100	62.4	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	44	50	88.1	32 - 125	
Phenol-d5	4165-62-2	LCS	47.2	100	47.2	7 - 56	
Terphenyl-d14	98904-43-9	LCS	54.1	50	108	41 - 145	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1356894	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	

Duplicate 3920122 (DUP) 3392755004 (non-Project Sample) For QC Batch 1356894

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,1,1-Trichloroethane	71-55-6	DUP	0	0	RPD	0	(Max-)	ND
1,1,2,2-Tetrachloroethane	79-34-5	DUP	0	0	RPD	0	(Max-)	ND
1,1,2-Trichloroethane	79-00-5	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethane	75-34-3	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethene	75-35-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichlorobenzene	87-61-6	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichloropropane	96-18-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trichlorobenzene	120-82-1	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trimethylbenzene	95-63-6	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromo-3-chloropropane	96-12-8	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromoethane	106-93-4	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichlorobenzene	95-50-1	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloroethane	107-06-2	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloropropane	78-87-5	DUP	0	0	RPD	0	(Max-)	ND
1,3,5-Trimethylbenzene	108-67-8	DUP	0	0	RPD	0	(Max-)	ND
1,3-Dichlorobenzene	541-73-1	DUP	0	0	RPD	0	(Max-)	ND
1,4-Dichlorobenzene	106-46-7	DUP	0	0	RPD	0	(Max-)	ND
2-Butanone	78-93-3	DUP	0	0	RPD	0	(Max-)	ND
2-Hexanone	591-78-6	DUP	0	0	RPD	0	(Max-)	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	DUP	0	0	RPD	0	(Max-)	ND
Acetone	67-64-1	DUP	4.1797	3.3481	RPD	22.10	(Max-)	J
Benzene	71-43-2	DUP	0	0	RPD	0	(Max-)	ND
Bromochloromethane	74-97-5	DUP	0	0	RPD	0	(Max-)	ND
Bromodichloromethane	75-27-4	DUP	0	0	RPD	0	(Max-)	ND
Bromoform	75-25-2	DUP	0	0	RPD	0	(Max-)	ND
Bromomethane	74-83-9	DUP	0	0	RPD	0	(Max-)	ND
Carbon Disulfide	75-15-0	DUP	0	0	RPD	0	(Max-)	ND
Carbon Tetrachloride	56-23-5	DUP	0	0	RPD	0	(Max-)	ND
Chlorobenzene	108-90-7	DUP	0	0	RPD	0	(Max-)	ND
Chlorodibromomethane	124-48-1	DUP	0	0	RPD	0	(Max-)	ND
Chloroethane	75-00-3	DUP	0	0	RPD	0	(Max-)	ND
Chloroform	67-66-3	DUP	0.3559	0.3697	RPD	3.78	(Max-)	J
Chloromethane	74-87-3	DUP	0	0	RPD	0	(Max-)	ND
cis-1,2-Dichloroethene	156-59-2	DUP	0	0	RPD	0	(Max-)	ND
cis-1,3-Dichloropropene	10061-01-5	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
Cyclohexane	110-82-7	DUP	0	0	RPD	0	(Max-)	ND
Dichlorodifluoromethane	75-71-8	DUP	0	0	RPD	0	(Max-)	ND
Ethylbenzene	100-41-4	DUP	0	0	RPD	0	(Max-)	ND
Freon 113	76-13-1	DUP	0	0	RPD	0	(Max-)	ND
Isopropylbenzene	98-82-8	DUP	0	0	RPD	0	(Max-)	ND
Methyl acetate	79-20-9	DUP	0	0	RPD	0	(Max-)	ND
Methyl cyclohexane	108-87-2	DUP	1.3411	1.3175	RPD	1.78	(Max-)	
Methyl t-Butyl Ether	1634-04-4	DUP	0	0	RPD	0	(Max-)	ND
Methylene Chloride	75-09-2	DUP	0	0	RPD	0	(Max-)	ND
mp-Xylene	108383/106423	DUP	0	0	RPD	0	(Max-)	ND
o-Xylene	95-47-6	DUP	0	0	RPD	0	(Max-)	ND
Styrene	100-42-5	DUP	0	0	RPD	0	(Max-)	ND
Tetrachloroethene	127-18-4	DUP	0	0	RPD	0	(Max-)	ND
Toluene	108-88-3	DUP	0	0	RPD	0	(Max-)	ND
Total Xylenes	1330-20-7	DUP	0	0	RPD	0	(Max-)	ND
trans-1,2-Dichloroethene	156-60-5	DUP	0	0	RPD	0	(Max-)	ND
trans-1,3-Dichloropropene	10061-02-6	DUP	0	0	RPD	0	(Max-)	ND
Trichloroethene	79-01-6	DUP	0	0	RPD	0	(Max-)	ND
Trichlorofluoromethane	75-69-4	DUP	0	0	RPD	0	(Max-)	ND
Vinyl Chloride	75-01-4	DUP	0	0	RPD	0	(Max-)	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	DUP	30	30	99.9	62 - 133	
4-Bromofluorobenzene	460-00-4	DUP	30.3	30	101	79 - 114	
Dibromofluoromethane	1868-53-7	DUP	28.5	30	95.1	78 - 116	
Toluene-d8	2037-26-5	DUP	30.2	30	101	76 - 127	

Method Blank 3920056 (MB) Created on 12/18/2024 10:57 For QC Batch 1356894

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.4	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	28.2	30	93.9	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.1	30	97.1	78 - 116	
Toluene-d8	2037-26-5	BLK	30.6	30	102	76 - 127	

Lab Control Standard 3920057 (LCS) Created on 12/18/2024 10:57 For QC Batch 1356894

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	20.6		20	103	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	23.2		20	116	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.8		20	109	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.2		20	101	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.2		20	106	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.2		20	111	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22.4		20	112	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.8		20	119	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	21.8		20	109	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	21.3		20	107	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	22		20	110	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.9		20	104	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.5		20	97.6	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.7		20	104	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.8		20	109	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.5		20	102	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.7		20	103	81 - 116		
2-Butanone	78-93-3	LCS	104		100	104	50 - 152		
2-Hexanone	591-78-6	LCS	107		100	107	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	108		100	108	71 - 146		
Acetone	67-64-1	LCS	108		100	108	40 - 151		
Benzene	71-43-2	LCS	19.9		20	99.6	80 - 124		
Bromochloromethane	74-97-5	LCS	21.5		20	108	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.8		20	109	79 - 126		
Bromoform	75-25-2	LCS	21.6		20	108	70 - 123		
Bromomethane	74-83-9	LCS	17		20	84.9	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.8		20	109	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	18.4		20	91.9	62 - 132		
Chlorobenzene	108-90-7	LCS	20		20	100	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.3		20	96.7	77 - 122		
Chloroethane	75-00-3	LCS	18.8		20	94.1	51 - 142		
Chloroform	67-66-3	LCS	19.7		20	98.4	78 - 122		
Chloromethane	74-87-3	LCS	21.8		20	109	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.5		20	103	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.1		20	95.5	81 - 121		
Cyclohexane	110-82-7	LCS	20.9		20	104	66 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCS	20.8		20	104	17 - 166		
Ethylbenzene	100-41-4	LCS	20.1		20	101	80 - 124		
Freon 113	76-13-1	LCS	21.5		20	108	50 - 130		
Isopropylbenzene	98-82-8	LCS	23.6		20	118	73 - 129		
Methyl acetate	79-20-9	LCS	22.7		20	113	70 - 130		
Methyl cyclohexane	108-87-2	LCS	20.7		20	103	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	21.4		20	107	69 - 115		
Methylene Chloride	75-09-2	LCS	21.2		20	106	76 - 121		
mp-Xylene	108383/106423	LCS	40.2		40	100	79 - 125		
o-Xylene	95-47-6	LCS	20.2		20	101	79 - 124		
Styrene	100-42-5	LCS	19		20	95.1	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.5		20	97.6	72 - 124		
Toluene	108-88-3	LCS	20.6		20	103	80 - 125		
Total Xylenes	1330-20-7	LCS	60.4		60	101	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.6		20	103	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.2		20	95.8	78 - 126		
Trichloroethene	79-01-6	LCS	19.5		20	97.3	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	20.7		20	104	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.4		20	107	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	31.2	30	104	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.4	30	98	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30.4	30	101	78 - 116	
Toluene-d8	2037-26-5	LCS	30.7	30	102	76 - 127	

Matrix Spike 3920121 (MS) 3391836005 For QC Batch 1356894

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	23.7	0	20	118	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.5	0	20	117	74 - 135		
1,1,2-Trichloroethane	79-00-5	MS	23	0	20	115	82 - 126		
1,1-Dichloroethane	75-34-3	MS	22.7	0	20	113	78 - 124		
1,1-Dichloroethene	75-35-4	MS	24.7	0	20	123	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	MS	21.2	0	20	106	61 - 126		
1,2,3-Trichloropropane	96-18-4	MS	23	0	20	115	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	MS	22.7	0	20	113	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	MS	22.5	0	20	113	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	MS	21	0	20	105	59 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dibromoethane	106-93-4	MS	23.7	0	20	118	80 - 124		
1,2-Dichlorobenzene	95-50-1	MS	21.3	0	20	106	82 - 118		
1,2-Dichloroethane	107-06-2	MS	21	0	20	105	70 - 133		
1,2-Dichloropropane	78-87-5	MS	22.9	0	20	115	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	MS	22.7	0	20	113	76 - 125		
1,3-Dichlorobenzene	541-73-1	MS	20.7	0	20	104	81 - 118		
1,4-Dichlorobenzene	106-46-7	MS	20.8	0	20	104	81 - 116		
2-Butanone	78-93-3	MS	108	0	100	108	50 - 152		
2-Hexanone	591-78-6	MS	107	0	100	107	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	111	0	100	111	71 - 146		
Acetone	67-64-1	MS	101	0	100	101	40 - 151		
Benzene	71-43-2	MS	23.1	0.54	20	113	80 - 124		
Bromochloromethane	74-97-5	MS	22.8	0	20	114	73 - 117		
Bromodichloromethane	75-27-4	MS	23.6	0	20	118	79 - 126		
Bromoform	75-25-2	MS	20.7	0	20	103	70 - 123		
Bromomethane	74-83-9	MS	14.2	0	20	71.1	45 - 148		
Carbon Disulfide	75-15-0	MS	25.3	0.40	20	125	57 - 131		
Carbon Tetrachloride	56-23-5	MS	20.9	0	20	104	62 - 132		
Chlorobenzene	108-90-7	MS	21.7	0	20	108	85 - 117		
Chlorodibromomethane	124-48-1	MS	20	0	20	100	77 - 122		
Chloroethane	75-00-3	MS	42.9	0	20	215*	51 - 142		
Chloroform	67-66-3	MS	28.3	8	20	102	78 - 122		
Chloromethane	74-87-3	MS	22.6	0	20	113	38 - 156		
cis-1,2-Dichloroethene	156-59-2	MS	22.9	0	20	114	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	MS	19.5	0	20	97.6	81 - 121		
Cyclohexane	110-82-7	MS	24.7	0	20	123	66 - 130		
Dichlorodifluoromethane	75-71-8	MS	23.8	0	20	119	17 - 166		
Ethylbenzene	100-41-4	MS	22.5	0	20	112	80 - 124		
Freon 113	76-13-1	MS	24.9	0	20	125	50 - 130		
Isopropylbenzene	98-82-8	MS	24.9	0	20	124	73 - 129		
Methyl acetate	79-20-9	MS	21.1	0	20	105	70 - 130		
Methyl cyclohexane	108-87-2	MS	23.5	0	20	118	70 - 130		
Methyl t-Butyl Ether	1634-04-4	MS	22.6	0	20	113	69 - 115		
Methylene Chloride	75-09-2	MS	23.2	0	20	116	76 - 121		
mp-Xylene	108383/106423	MS	44	0	40	110	79 - 125		
o-Xylene	95-47-6	MS	22.1	0	20	110	79 - 124		
Styrene	100-42-5	MS	19.1	0	20	95.7	79 - 123		
Tetrachloroethene	127-18-4	MS	20.2	0	20	101	72 - 124		
Toluene	108-88-3	MS	22.7	0	20	113	80 - 125		
Total Xylenes	1330-20-7	MS	66.1	0	60	110	79 - 125		
trans-1,2-Dichloroethene	156-60-5	MS	23.2	0	20	116	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	MS	19.6	0	20	98.1	78 - 126		
Trichloroethene	79-01-6	MS	21.4	0	20	107	77 - 124		
Trichlorofluoromethane	75-69-4	MS	23.4	0	20	117	38 - 123		
Vinyl Chloride	75-01-4	MS	23.8	0	20	119	27 - 138		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	33	30	110	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	27.5	30	91.6	79 - 114	
Dibromofluoromethane	1868-53-7	MS	31.4	30	105	78 - 116	
Toluene-d8	2037-26-5	MS	30.5	30	102	76 - 127	

QC Batch

QC Batch	1357409	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391836008	3391836009	3391836010	3391836011
3391836012	3391836013	3391836014	3391836015

Matrix Spike 3921007 (MS) 3392038005 (non-Project Sample) For QC Batch 1357409

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921008 (MSD) 3392038005 (non-Project Sample) For QC Batch 1357409

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	22.9	0	20	115	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	22.1	0	20	111	66 - 130	RPD 3.41 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	21.8	0	20	109	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	23.5	0	20	118	74 - 135	RPD 7.46 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	22.7	0	20	114	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	21.9	0	20	110	82 - 126	RPD 3.60 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	22.1	0	20	111	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	21.1	0	20	106	78 - 124	RPD 4.50 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	23.8	0	20	119	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	22.8	0	20	114	63 - 128	RPD 4.26 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	20.4	0	20	102	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	21.9	0	20	110	61 - 126	RPD 7.18 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	21.3	0	20	107	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	22.4	0	20	112	75 - 132	RPD 4.74 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	22	0	20	110	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	23.7	0	20	119	67 - 123	RPD 7.37 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.9	0	20	109	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	23.3	0	20	116	76 - 125	RPD 6.36 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	19.8	0	20	98.9	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	21.2	0	20	106	59 - 133	RPD 6.75 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	22.6	0	20	113	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	21.5	0	20	107	80 - 124	RPD 5 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	20.6	0	20	103	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	21.7	0	20	108	82 - 118	RPD 5.30 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	20.7	0	20	104	70 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dichloroethane	107-06-2	MSD	19.6	0	20	98.1	70 - 133	RPD 5.32 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	22.3	0	20	111	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	21.1	0	20	106	81 - 127	RPD 5.31 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	22.1	0	20	111	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	23.4	0	20	117	76 - 125	RPD 5.70 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	20.4	0	20	102	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	21.5	0	20	107	81 - 118	RPD 5.06 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	20.6	0	20	103	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	21.7	0	20	109	81 - 116	RPD 5.42 (Max-15)	
2-Butanone	78-93-3	MS	99.2	0	100	99.2	50 - 152		
2-Butanone	78-93-3	MSD	95.7	0	100	95.7	50 - 152	RPD 3.51 (Max-16)	
2-Hexanone	591-78-6	MS	102	0	100	102	65 - 154		
2-Hexanone	591-78-6	MSD	98.5	0	100	98.5	65 - 154	RPD 3.04 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	106	0	100	106	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	102	0	100	102	71 - 146	RPD 3.86 (Max-16)	
Acetone	67-64-1	MS	97.3	0	100	97.3	40 - 151		
Acetone	67-64-1	MSD	98	0	100	98	40 - 151	RPD 0.73 (Max-40)	
Benzene	71-43-2	MS	21.8	0	20	109	80 - 124		
Benzene	71-43-2	MSD	20.9	0	20	104	80 - 124	RPD 4.56 (Max-26)	
Bromochloromethane	74-97-5	MS	22.3	0	20	111	73 - 117		
Bromochloromethane	74-97-5	MSD	21.5	0	20	108	73 - 117	RPD 3.20 (Max-19)	
Bromodichloromethane	75-27-4	MS	22.4	0	20	112	79 - 126		
Bromodichloromethane	75-27-4	MSD	21.9	0	20	110	79 - 126	RPD 2.23 (Max-16)	
Bromoform	75-25-2	MS	19.7	0	20	98.3	70 - 123		
Bromoform	75-25-2	MSD	21.5	0	20	108	70 - 123	RPD 8.97 (Max-16)	
Bromomethane	74-83-9	MS	16.6	0	20	83.1	45 - 148		
Bromomethane	74-83-9	MSD	17.3	0	20	86.6	45 - 148	RPD 4.12 (Max-26)	
Carbon Disulfide	75-15-0	MS	23.6	0	20	118	57 - 131		
Carbon Disulfide	75-15-0	MSD	22.8	0	20	114	57 - 131	RPD 3.64 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	20.5	0	20	102	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	19.5	0	20	97.5	62 - 132	RPD 4.88 (Max-17)	
Chlorobenzene	108-90-7	MS	21.3	0	20	106	85 - 117		
Chlorobenzene	108-90-7	MSD	20.5	0	20	103	85 - 117	RPD 3.67 (Max-15)	
Chlorodibromomethane	124-48-1	MS	19.5	0	20	97.4	77 - 122		
Chlorodibromomethane	124-48-1	MSD	18.9	0	20	94.3	77 - 122	RPD 3.24 (Max-15)	
Chloroethane	75-00-3	MS	22.6	0	20	113	51 - 142		
Chloroethane	75-00-3	MSD	21.6	0	20	108	51 - 142	RPD 4.57 (Max-24)	
Chloroform	67-66-3	MS	21.1	0.33	20	104	78 - 122		
Chloroform	67-66-3	MSD	20.4	0.33	20	101	78 - 122	RPD 2.98 (Max-16)	
Chloromethane	74-87-3	MS	21.2	0	20	106	38 - 156		
Chloromethane	74-87-3	MSD	21.3	0	20	107	38 - 156	RPD 0.76 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	22.5	0	20	112	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	21.6	0	20	108	78 - 125	RPD 4.09 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.4	0	20	96.9	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	18.6	0	20	93.2	81 - 121	RPD 3.91 (Max-16)	
Cyclohexane	110-82-7	MS	23.6	0	20	118	66 - 130		
Cyclohexane	110-82-7	MSD	22.5	0	20	113	66 - 130	RPD 4.63 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	22	0	20	110	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	21.2	0	20	106	17 - 166	RPD 3.81 (Max-24)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Ethylbenzene	100-41-4	MS	22.3	0	20	111	80 - 124		
Ethylbenzene	100-41-4	MSD	21.3	0	20	107	80 - 124	RPD 4.27 (Max-19)	
Freon 113	76-13-1	MS	24.3	0	20	122	50 - 130		
Freon 113	76-13-1	MSD	23	0	20	115	50 - 130	RPD 5.51 (Max-26)	
Isopropylbenzene	98-82-8	MS	24.2	0	20	121	73 - 129		
Isopropylbenzene	98-82-8	MSD	25.6	0	20	128	73 - 129	RPD 5.85 (Max-18)	
Methyl acetate	79-20-9	MS	20.7	0	20	104	70 - 130		
Methyl acetate	79-20-9	MSD	19	0	20	94.9	70 - 130	RPD 8.79 (Max-18)	
Methyl cyclohexane	108-87-2	MS	23.4	0	20	117	70 - 130		
Methyl cyclohexane	108-87-2	MSD	22.7	0	20	114	70 - 130	RPD 2.66 (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	21.4	0	20	107	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	20.8	0	20	104	69 - 115	RPD 2.94 (Max-20)	
Methylene Chloride	75-09-2	MS	22.1	0	20	110	76 - 121		
Methylene Chloride	75-09-2	MSD	21.5	0	20	108	76 - 121	RPD 2.44 (Max-17)	
mp-Xylene	108383/106423	MS	44.2	0	40	111	79 - 125		
mp-Xylene	108383/106423	MSD	42.8	0	40	107	79 - 125	RPD 3.33 (Max-21)	
o-Xylene	95-47-6	MS	22	0	20	110	79 - 124		
o-Xylene	95-47-6	MSD	21.1	0	20	106	79 - 124	RPD 4.25 (Max-19)	
Styrene	100-42-5	MS	18.5	0	20	92.5	79 - 123		
Styrene	100-42-5	MSD	19.7	0	20	98.6	79 - 123	RPD 6.42 (Max-16)	
Tetrachloroethene	127-18-4	MS	20.6	0	20	103	72 - 124		
Tetrachloroethene	127-18-4	MSD	20	0	20	99.9	72 - 124	RPD 2.89 (Max-38)	
Toluene	108-88-3	MS	22.3	0	20	112	80 - 125		
Toluene	108-88-3	MSD	21.5	0	20	107	80 - 125	RPD 3.75 (Max-20)	
Total Xylenes	1330-20-7	MS	66.2	0	60	110	79 - 125		
Total Xylenes	1330-20-7	MSD	63.9	0	60	106	79 - 125	RPD 3.63 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	22.6	0	20	113	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	21.7	0	20	108	71 - 122	RPD 3.87 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	19.5	0	20	97.5	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	18.7	0	20	93.7	78 - 126	RPD 3.93 (Max-18)	
Trichloroethene	79-01-6	MS	20.6	0	20	103	77 - 124		
Trichloroethene	79-01-6	MSD	20.1	0	20	100	77 - 124	RPD 2.81 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	23.1	0	20	115	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	22	0	20	110	38 - 123	RPD 4.90 (Max-23)	
Vinyl Chloride	75-01-4	MS	22.5	0	20	112	27 - 138		
Vinyl Chloride	75-01-4	MSD	21.8	0	20	109	27 - 138	RPD 2.98 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	32.5	30	108	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	30.3	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	27.3	30	90.9	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	29.1	30	96.9	79 - 114	
Dibromofluoromethane	1868-53-7	MS	31	30	103	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	29	30	96.6	78 - 116	
Toluene-d8	2037-26-5	MS	30.5	30	102	76 - 127	
Toluene-d8	2037-26-5	MSD	29.3	30	97.6	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Method Blank 3920883 (MB) Created on 12/19/2024 10:56 For QC Batch 1357409

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.1	30	107	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.8	30	99.4	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	30.7	30	102	78 - 116	
Toluene-d8	2037-26-5	BLK	32.4	30	108	76 - 127	

Lab Control Standard 3920884 (LCS) Created on 12/19/2024 10:56 For QC Batch 1357409

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21		20	105	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.8		20	114	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.2		20	106	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.9		20	99.6	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.5		20	108	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.3		20	112	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22.1		20	111	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.1		20	120	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22.6		20	113	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	21.6		20	108	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	21.3		20	106	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.5		20	108	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	18.6		20	93.2	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.3		20	102	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.7		20	113	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	21.1		20	106	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.3		20	106	81 - 116		
2-Butanone	78-93-3	LCS	99		100	99	50 - 152		
2-Hexanone	591-78-6	LCS	100		100	100	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	101		100	101	71 - 146		
Acetone	67-64-1	LCS	99.2		100	99.2	40 - 151		
Benzene	71-43-2	LCS	20		20	100	80 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	20.6		20	103	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.3		20	106	79 - 126		
Bromoform	75-25-2	LCS	21.5		20	107	70 - 123		
Bromomethane	74-83-9	LCS	16.7		20	83.4	45 - 148		
Carbon Disulfide	75-15-0	LCS	22		20	110	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	18.4		20	91.8	62 - 132		
Chlorobenzene	108-90-7	LCS	19.9		20	99.4	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18.6		20	92.9	77 - 122		
Chloroethane	75-00-3	LCS	21		20	105	51 - 142		
Chloroform	67-66-3	LCS	19.3		20	96.3	78 - 122		
Chloromethane	74-87-3	LCS	20.1		20	100	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.4		20	102	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.6		20	93.2	81 - 121		
Cyclohexane	110-82-7	LCS	21		20	105	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	20.6		20	103	17 - 166		
Ethylbenzene	100-41-4	LCS	20.6		20	103	80 - 124		
Freon 113	76-13-1	LCS	22		20	110	50 - 130		
Isopropylbenzene	98-82-8	LCS	24.9		20	124	73 - 129		
Methyl acetate	79-20-9	LCS	21.2		20	106	70 - 130		
Methyl cyclohexane	108-87-2	LCS	21.4		20	107	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.5		20	102	69 - 115		
Methylene Chloride	75-09-2	LCS	20.7		20	103	76 - 121		
mp-Xylene	108383/106423	LCS	40.6		40	101	79 - 125		
o-Xylene	95-47-6	LCS	20.2		20	101	79 - 124		
Styrene	100-42-5	LCS	19.4		20	97.1	79 - 123		
Tetrachloroethene	127-18-4	LCS	20		20	100	72 - 124		
Toluene	108-88-3	LCS	20.7		20	103	80 - 125		
Total Xylenes	1330-20-7	LCS	60.8		60	101	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.5		20	102	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	18.6		20	92.9	78 - 126		
Trichloroethene	79-01-6	LCS	19.1		20	95.3	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21.1		20	106	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.5		20	108	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.8	30	99.5	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	28.9	30	96.5	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29	30	96.5	78 - 116	
Toluene-d8	2037-26-5	LCS	29.3	30	97.7	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1354602	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Matrix Spike 3917271 (MS) 3391762006 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917272 (MSD) 3391762006 (non-Project Sample) For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	45.6	35.40	10	102	80 - 120		
Chloride	Cl	MSD	45.7	35.40	10	103	80 - 120	RPD 0.17 (Max-20)	
Nitrate-N	NO3	MS	1.5	0.51	1	98.5	80 - 120		
Nitrate-N	NO3	MSD	1.5	0.51	1	99	80 - 120	RPD 0.33 (Max-20)	
Sulfate	SO4	MS	17.3	6.20	10	111	80 - 120		
Sulfate	SO4	MSD	17.4	6.20	10	112	80 - 120	RPD 0.29 (Max-20)	

Matrix Spike 3917275 (MS) 3391752001 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	3.7	1.20	2.50	101	80 - 120		

Matrix Spike 3917278 (MS) 3391682009 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917279 (MSD) 3391682009 (non-Project Sample) For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	5.5	2.70	2.50	111	80 - 120		
Nitrate-N	NO3	MSD	5.5	2.70	2.50	110	80 - 120	RPD 0.38 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3917282 (MS) 3391809001 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	20.5	8.50	10	120	80 - 120		
Nitrate-N	NO3	MS	1.6	0.53	1	108	80 - 120		
Sulfate	SO4	MS	19	6.60	10	124*	80 - 120		

Matrix Spike 3917285 (MS) 3391823001 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917286 (MSD) 3391823001 (non-Project Sample) For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	281	256	25	NC	80 - 120		
Chloride	Cl	MSD	279	256	25	NC	80 - 120	RPD 0.78 (Max-20)	
Sulfate	SO4	MS	203	177	25	NC	80 - 120		
Sulfate	SO4	MSD	202	177	25	NC	80 - 120	RPD 0.81 (Max-20)	

Matrix Spike 3917315 (MS) 3391890002 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917316 (MSD) 3391890002 (non-Project Sample) For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	53.3	41	10	NC	80 - 120		
Sulfate	SO4	MSD	53.4	41	10	NC	80 - 120	RPD 0.32 (Max-20)	

Matrix Spike 3917400 (MS) 3391888001 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3917403 (MS) 3391912001 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917404 (MSD) 3391912001 (non-Project Sample) For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	15.6	2.20	10	133*	80 - 120		
Chloride	Cl	MSD	15.7	2.20	10	134*	80 - 120	RPD 0.63 (Max-20)	

Method Blank 3916918 (MB) Created on 12/12/2024 06:39 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3916919 (LCS) Created on 12/12/2024 06:39 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.5		50	101	90 - 110		
Nitrate-N	NO3	LCS	5		5	100	90 - 110		
Sulfate	SO4	LCS	50.5		50	101	90 - 110		

Lab Control Standard 3917273 (LCS) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.2		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	103	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Method Blank 3917274 (MB) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917276 (LCS) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.5		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	51.7		50	103	90 - 110		

Method Blank 3917277 (MB) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917280 (LCS) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

Method Blank 3917281 (MB) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917283 (LCS) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52		50	104	90 - 110		

Method Blank 3917284 (MB) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917287 (LCS) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.7		50	105	90 - 110		

Method Blank 3917288 (MB) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3917312 (MS) 3391836013 For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	93.2	63.20	25	120	80 - 120		
Nitrate-N	NO3	MS	40.1	37.90	2.50	NC	80 - 120		
Sulfate	SO4	MS	323	299	25	NC	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3917313 (LCS) Created on 12/12/2024 12:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.1		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.7		50	105	90 - 110		

Method Blank 3917314 (MB) Created on 12/12/2024 12:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917317 (LCS) Created on 12/12/2024 12:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.3		50	105	90 - 110		

Method Blank 3917318 (MB) Created on 12/12/2024 12:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917401 (LCS) Created on 12/12/2024 14:47 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	52		50	104	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3917402 (MB) Created on 12/12/2024 14:47 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917405 (LCS) Created on 12/12/2024 14:47 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	52.3		50	105	90 - 110		

Method Blank 3917406 (MB) Created on 12/12/2024 14:47 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1354716	Prep Method	N/A
Date	N/A	Analysis Method	SM2130B-2011
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Duplicate 3917291 (DUP) 3391762010 (non-Project Sample) For QC Batch 1354716

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	8.50	8.10	RPD	4.82 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3917289 (MB) Created on 12/12/2024 11:48 For QC Batch 1354716

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3917292 (MB) Created on 12/12/2024 11:48 For QC Batch 1354716

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3917294 (DUP) 3391836006 For QC Batch 1354716

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)				Qualifiers
Turbidity	Turb	DUP	160	160	RPD	0	(Max-10)	

Method Blank 3917295 (MB) Created on 12/12/2024 11:48 For QC Batch 1354716

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1355194	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Method Blank 3917752 (MB) Created on 12/13/2024 09:19 For QC Batch 1355194

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3917753 (LCS) Created on 12/13/2024 09:19 For QC Batch 1355194

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	513		500	103	90 - 110		

Duplicate 3917967 (DUP) 3391836002 For QC Batch 1355194

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	1414	1424	RPD 0.70	(Max-5)	

Duplicate 3917968 (DUP) 3391836003 For QC Batch 1355194

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	1404	1378	RPD 1.87	(Max-5)	

QC Batch

QC Batch	1355591	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3391836002	3391836003	3391836007	3391836011
3391836012	3391836014		

Matrix Spike 3918175 (MS) 3392229002 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918176 (MSD) 3392229002 (non-Project Sample) For QC Batch 1355591

Matrix Spike 3918179 (MS) 3391543002 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3918186 (MS) 3391888001 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	590	553	50	NC	80 - 120		

Matrix Spike 3918206 (MS) 3392316006 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918207 (MSD) 3392316006 (non-Project Sample) For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	36.1	7.50	25	114	80 - 120		
Chloride	Cl	MSD	36.3	7.50	25	115	80 - 120	RPD 0.53 (Max-20)	
Nitrate-N	NO3	MS	3.8	1.20	2.50	104	80 - 120		
Nitrate-N	NO3	MSD	3.8	1.20	2.50	104	80 - 120	RPD 0.24 (Max-20)	

Method Blank 3918161 (MB) Created on 12/14/2024 06:33 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918162 (LCS) Created on 12/14/2024 06:33 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	50.9		50	102	90 - 110		

Lab Control Standard 3918177 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.4		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3918178 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918180 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

Method Blank 3918181 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3918182 (MS) 3391836014 For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918183 (MSD) 3391836014 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	63.3	9	50	109	80 - 120		
Chloride	Cl	MSD	63.2	9	50	108	80 - 120	RPD 0.18 (Max-20)	
Nitrate-N	NO3	MS	44.6	40.30	5	NC	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MSD	44.2	40.30	5	NC	80 - 120	RPD 0.71 (Max-20)	
Sulfate	SO4	MS	637	601	50	NC	80 - 120		
Sulfate	SO4	MSD	633	601	50	NC	80 - 120	RPD 0.67 (Max-20)	

Lab Control Standard 3918184 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.1		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.9		50	106	90 - 110		

Method Blank 3918185 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918187 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.5		50	105	90 - 110		

Method Blank 3918188 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3918208 (LCS) Created on 12/14/2024 10:31 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	53		50	106	90 - 110		

Method Blank 3918209 (MB) Created on 12/14/2024 10:31 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1356012	Prep Method	N/A
Date	N/A	Analysis Method	S4500HB-11
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Duplicate 3918356 (DUP) 3391293006 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	1158.80	1162.80	RPD	0.34 (Max-20)	
pH	PH	DUP					

Duplicate 3918360 (DUP) 3391582001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	832.80	813.20	RPD	2.38 (Max-20)	
pH	PH	DUP	8.2010	8.1320	RPD	0.84 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3918364 (DUP) 3391582010 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	668	687.60	RPD	2.89	(Max-20)	
pH	PH	DUP	8.1140	8.0550	RPD	0.73	(Max-10)	

Duplicate 3918368 (DUP) 3391606001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	3.72	4.92	RPD	27.80*	(Max-20)	ND
pH	PH	DUP	6.5810	6.5630	RPD	0.27	(Max-10)	

Duplicate 3918372 (DUP) 3391609001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	2.20	2.56	RPD	15.10	(Max-20)	ND
pH	PH	DUP	4.7120	4.7080	RPD	0.08	(Max-10)	

Duplicate 3918376 (DUP) 3391692001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	114.88	115.60	RPD	0.62	(Max-20)	
pH	PH	DUP						

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3918380 (DUP) 3391762001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	320.44	320.76	RPD	0.10	(Max-20)	
pH	PH	DUP	8.2250	8.2180	RPD	0.09	(Max-10)	

Duplicate 3918384 (DUP) 3391762011 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	58.76	58.12	RPD	1.10	(Max-20)	
pH	PH	DUP	7.9750	7.9780	RPD	0.04	(Max-10)	

Duplicate 3918396 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP						
pH	PH	DUP	8.2860	8.2660	RPD	0.24	(Max-10)	

Duplicate 3918400 (DUP) 3391970001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	152.96	153.16	RPD	0.13	(Max-20)	
pH	PH	DUP	8.4450	8.4660	RPD	0.25	(Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3918404 (DUP) 3391293001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	726.40	747.60	RPD	2.88 (Max-20)	
pH	PH	DUP					

Duplicate 3918405 (DUP) 3391293002 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	1240	1234	RPD	0.49 (Max-20)	
pH	PH	DUP					

Method Blank 3918354 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918358 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918362 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3918366 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918370 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918374 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918378 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918382 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918386 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3918388 (DUP) 3391836002 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	293.60	295.08	RPD	0.50	(Max-20)	
pH	PH	DUP	8.2750	8.2740	RPD	0.01	(Max-10)	

Method Blank 3918390 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3918392 (DUP) 3391836012 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP						
pH	PH	DUP	8.2550	8.2720	RPD	0.21	(Max-10)	

Method Blank 3918394 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	6	mg/L	5	

Method Blank 3918398 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918402 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1356895	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3391836001	3391836003	3391836004	3391836005
3391836006	3391836007	3391836008	3391836009
3391836010	3391836011	3391836012	3391836013
3391836014			

Duplicate 3920067 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	213.12	213.36	RPD	0.11 (Max-20)	

Duplicate 3920071 (DUP) 3391890009 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	169.28	168.08	RPD	0.71 (Max-20)	

Duplicate 3920075 (DUP) 3391971001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	233.76	234.64	RPD	0.38 (Max-20)	

Duplicate 3920079 (DUP) 3392026001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	90.28	90.76	RPD	0.53 (Max-20)	

Duplicate 3920083 (DUP) 3392026002 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	79.32	78.08	RPD	1.58 (Max-20)	

Duplicate 3920087 (DUP) 3392161001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3920091 (DUP) 3392161011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			ND

Duplicate 3920095 (DUP) 3392316001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3920099 (DUP) 3392379005 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3920103 (DUP) 3392402001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3920107 (DUP) 3392412001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			ND

Method Blank 3920061 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3920063 (DUP) 3391836012 For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	188.44	185.20	RPD	1.73 (Max-20)	

Method Blank 3920065 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920069 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920073 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920077 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920081 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920085 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3920089 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920093 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920097 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920101 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920105 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920109 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1357374	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Method Blank 3920792 (MB) Created on 12/19/2024 09:05 For QC Batch 1357374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3920793 (DUP) 3391836001 For QC Batch 1357374

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	47	35	RPD 29.30* (Max-20)	

Method Blank 3920795 (MB) Created on 12/19/2024 09:05 For QC Batch 1357374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3920796 (DUP) 3391836011 For QC Batch 1357374

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	0	0	RPD 0 (Max-20)	ND

Method Blank 3920798 (MB) Created on 12/19/2024 09:05 For QC Batch 1357374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1359708	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Duplicate 3922545 (DUP) 3391762007 (non-Project Sample) For QC Batch 1359708

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)		Qualifiers
Specific Conductance	Cond	DUP	300	257	RPD 15.40* (Max-10)	

Duplicate 3922551 (DUP) 3393173002 (non-Project Sample) For QC Batch 1359708

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)		Qualifiers
Specific Conductance	Cond	DUP	942	937	RPD 0.53 (Max-10)	

Duplicate 3922547 (DUP) 3391836003 For QC Batch 1359708

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)		Qualifiers
Specific Conductance	Cond	DUP	1849	1847	RPD 0.11 (Max-10)	

Duplicate 3922549 (DUP) 3391836013 For QC Batch 1359708

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No	Result (umhos/cm)	Orig. Result (umhos/cm)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	1527	1527	RPD	0	(Max-10)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391836001	MW-25	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
3391836002	MW-24	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
		N/A	N/A	N/A		SW846 9056A	1355591
3391836003	MW-24-DUP	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
		N/A	N/A	N/A		SW846 9056A	1355591
3391836004	MW-20	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391836005	MW-1	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
3391836006	MW-4	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
3391836007	MW-5S	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
		N/A	N/A	N/A		SW846 9056A	1355591
3391836008	MW-18	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391836009	MW-3	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
3391836010	MW-7	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
3391836011	MW-21	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
		N/A	N/A	N/A		SW846 9056A	1355591
3391836012	MW-5D	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
		N/A	N/A	N/A		SW846 9056A	1355591

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391836013	MW-23	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
3391836014	MW-38D	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
		N/A	N/A	N/A		SW846 9056A	1355591
3391836015	TB-42	N/A	N/A	N/A		SW846 8260D	1357409

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3391836 Logged By: EXP PM: EXP — 1 of 2

ALS Quo

Client Name: Michael Baker Intl.

Address: 100 Airside Drive Moon Twp., PA

Contact: C. Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

	Container Type	Container Size	Preservative	Analysis / Method Requested
1	G	3 40 ml	HCl	VOCs 8260
2	G	1 500 ml	UNP	SVOCs 8270
3	P	4 125 ml	HNO3 MJE 12/12/24	Total Metals + Hg 6010/7471B
4	P	2 1L	UNP	Diss. Metals + Hg 6010/7471B
5				Gen. Chem.

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.	Enter Number of Containers Per Sample or Field Results Below.
1	MW-25	12/11/24	950		G	GW	X3	X1	X2	X2	X2	MJE 12/12/24
2	MW-24		1115				X	X	X	X	X	
3	MW-24-DUP		1130				X	X	X	X	X	
4	MW-20		1245				X	X	X	X	X	
5	MW-1		0910				X	X	X	X	X	
6	MW-4		1050				X	X	X	X	X	
7	MW-5S		1220				X	X	X	X	X	
8	MW-18		0955				X	X	X	X	X	
9	MW-3		1125				X	X	X	X	X	
10	MW-7		1315				X	X	XL	X	XS	

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Temp Taken By: Therm ID: WO Temp (°C) 1°

Receipt Info Y N NA

Cooler Cu Temp By: MJE | WO Temp (°C) 1° | Therm ID 569

Sample C

Received

Coolers &

Correct C

Sample La

Adequate

VOA only:

NJ ≤ 4 d

Courier/Tra

Receipt Info Completed By: MJE

Cooler Custody Seal Intact	Y N	NA
Sample Custody Seal Intact	Y N	NA
Received on Ice	Y N	NA
Cooler & Samples Intact	Y N	
Correct Containers Provided	Y N	
Sample Label/COC Agree	Y N	
Adequate Sample Volumes	Y N	
CR6 Samples Filtered	Y N	NA
OP Samples Filtered	Y N	NA
VOA Trip Blank	Y N	NA
NJ≤4 Days?	Y N	
Rad Screen (uCi)	—	
Courier/Tracking #:	283132306474	
SDWA Compliance	Y N	
PWSID		
WV Containers 0-6°C	Y N	NA

tions? NO YES If YES, list below:

Client contact:

Sample(s) Reportabl SDWA St PWSID #

PWS Contact: PWS Phone #:

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/11/24	1800	1	Dave Gaviglia / MBI	2	Fedex
12/12/24	904	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ]

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab C=Composite **Matrix - A=Air, D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste, S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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Rev 07.06.2023

283132306474

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Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 2 of 2

ALS Quote #:

Client Name: Michael Baker Intl.

Address: 100 Airside Drive
Moon Twp., PA

Contact: C. Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

	Container Type	Container Size	Preservative
1	G	3 40 ml	HCl ~~HNO3~~ MJE 12/12/24
2	G	1 500 ml	~~HNO3~~
3	P	4 125 ml	HNO3
4	P	2 1L	~~HNO3~~

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.					
	Enter Number of Containers Per Sample or Field Results Below.															
1	MW-21	12/11/24	1555		G	GW	3	X	X	X	X	MJE 12/12/24				
2	MW-5D	↓	1540		↓	↓	X	X	X	X	X					
3	MW-23		1525				X	X	X	X	X					
4	MW-38D		1630				X	X	X	X	X					
5	TB-42	—	—		—		X									
6																
7																
8																
9																
10																

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/11/24	1800	1	Dave Gaviglia / MBI	2	Fedex
12/12/24	904	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Receipt Information (completed by Receiving Lab)

Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N

Courier/Tracking #

Deviations? NO YES

If YES, list below:

Client contact:

Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)

Reportable SDWA Sample(s)? Y N New Source? Y N

SDWA State of Origin? New Source Contact:

PWSID #

PWS Contact: PWS Phone #:

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] ____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] ____ other

* G=Grab C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3392161
Report ID 380819 on 1/11/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 13, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3392161001	MW-33	Ground Water	12/12/2024 09:39	12/13/2024 08:54	CBC	Collected By Client
3392161002	MW-32	Ground Water	12/12/2024 11:15	12/13/2024 08:54	CBC	Collected By Client
3392161003	MW-19S	Ground Water	12/12/2024 09:50	12/13/2024 08:54	CBC	Collected By Client
3392161004	MW-19D	Ground Water	12/12/2024 11:25	12/13/2024 08:54	CBC	Collected By Client
3392161005	MW-11S	Ground Water	12/12/2024 09:40	12/13/2024 08:54	CBC	Collected By Client
3392161006	MW-11D	Ground Water	12/12/2024 10:55	12/13/2024 08:54	CBC	Collected By Client
3392161007	MW-11D-Dup	Ground Water	12/12/2024 11:10	12/13/2024 08:54	CBC	Collected By Client
3392161008	MW-31	Ground Water	12/12/2024 14:30	12/13/2024 08:54	CBC	Collected By Client
3392161009	MW-29	Ground Water	12/12/2024 15:10	12/13/2024 08:54	CBC	Collected By Client
3392161010	MW-8S	Ground Water	12/12/2024 14:30	12/13/2024 08:54	CBC	Collected By Client
3392161011	MW-8D	Ground Water	12/12/2024 15:45	12/13/2024 08:54	CBC	Collected By Client
3392161012	Trip Blank	Ground Water	12/12/2024 15:45	12/13/2024 08:54	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	Bromomethane was recovered below the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift was reported at -25.64%. Acceptable limits are +/-20%.
2	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 38.4 and the control limits were 41 to 145. This result was reported at a dilution of 1.
3	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
4	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
5	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
6	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 36.7 and the control limits were 41 to 145. This result was reported at a dilution of 1.
7	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 121 and the control limits were 80 to 120.
8	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 134 and the control limits were 80 to 120.
9	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 133 and the control limits were 80 to 120.
10	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 131 and the control limits were 80 to 120.
11	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 123 and the control limits were 80 to 120.
12	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 40.7 and the control limits were 41 to 145. This result was reported at a dilution of 1.
13	The surrogate 2-Fluorophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 10 to 85. This result was reported at a dilution of 100.
14	The surrogate Phenol-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 7 to 56. This result was reported at a dilution of 100.
15	The surrogate Nitrobenzene-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 32 to 125. This result was reported at a dilution of 100.
16	The surrogate 2-Fluorobiphenyl for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 24 to 116. This result was reported at a dilution of 100.
17	The surrogate 2,4,6-Tribromophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 23 to 131. This result was reported at a dilution of 100.
18	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 41 to 145. This result was reported at a dilution of 100.
19	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 37 and the control limits were 41 to 145. This result was reported at a dilution of 1.

Detected Results Summary

Client Sample ID	MW-33	Collected	12/12/2024 09:39
Lab Sample ID	3392161001	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.042	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.041	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	146	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	145	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0050J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0043J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.087	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0063J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.19	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.19	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	39.1	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	39.0	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.025	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.025	mg/L	0.0056	0.0020	SW846 6010C	#
Nickel, Dissolved	0.15	mg/L	0.022	0.0073	SW846 6010C	#
Potassium, Dissolved	4.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	4.6	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.064	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.061	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	167	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	167	mg/L	0.56	0.18	SW846 6010C	#
Zinc, Dissolved	0.0076J	mg/L	0.022	0.0073	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	6	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	203	mg/L	5	5	SM2320B-2011	#
Chloride	114	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	18.1	mg/L	2.5	0.80	SW846 9056A	#
pH	8.25	pH_Units			S4500HB-11	#
Specific Conductance	1640	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	442	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1210	mg/L	25	25	SM2540C-15	#
Turbidity	1.0	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-32	Collected	12/12/2024 11:15
Lab Sample ID	3392161002	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Total	0.0077J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.0070J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0058J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.076	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.075	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	201	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	199	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	1.1	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	1.2	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	39.5	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	39.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.68	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.70	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	15.0	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	15.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	118	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	116	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Naphthalene	0.70J	ug/L	1.5	0.65	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	17	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	331	mg/L	50	50	SM2320B-2011	#
Chloride	217	mg/L	5.0	2.2	SW846 9056A	#
pH	8.32	pH_Units			S4500HB-11	#
Specific Conductance	1660	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	148	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1050	mg/L	25	25	SM2540C-15	#
Turbidity	9.1	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-19S	Collected	12/12/2024 09:50
Lab Sample ID	3392161003	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Total	0.0098J	mg/L	0.022	0.0073	SW846 6010C	#
Barium, Dissolved	0.067	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.065	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	137	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	136	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0044J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0037J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.26	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.26	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	35.7	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	35.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.025	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.022	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	5.5	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	5.5	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.029	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.032	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	44.7	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	43.6	mg/L	0.56	0.18	SW846 6010C	#
VOLATILE ORGANICS						
Benzene	0.42J	ug/L	1.0	0.23	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	16	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	246	mg/L	50	50	SM2320B-2011	#
Chloride	62.6	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	4.7	mg/L	2.5	0.80	SW846 9056A	#
pH	8.45	pH_Units			S4500HB-11	#
Specific Conductance	1030	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	284	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	744	mg/L	25	25	SM2540C-15	#
Turbidity	1.1	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-19D	Collected	12/12/2024 11:25
Lab Sample ID	3392161004	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.070	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.070	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	174	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	174	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0026J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0023J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0061J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.29	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.31	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	83.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	83.1	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.097	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.10	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	11.8	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	12.0	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.0086J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	125	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	123	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	1.2J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	4.2	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	2.5	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	0.75J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	1.5J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	13.1	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	4.8	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	0.57J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	6.0	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	62.3	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	5.5	ug/L	1.5	0.25	SW846 8270E	#
Pyrene	0.28J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	0.60J	ug/L	1.0	0.25	SW846 8260D	#
Benzene	113	ug/L	1.0	0.23	SW846 8260D	#
Ethylbenzene	2.9	ug/L	1.0	0.34	SW846 8260D	#
Isopropylbenzene	0.62J	ug/L	1.0	0.22	SW846 8260D	#
mp-Xylene	0.83J	ug/L	2.0	0.52	SW846 8260D	#
o-Xylene	0.61J	ug/L	1.0	0.33	SW846 8260D	#
Total Xylenes	1.4J	ug/L	3.0	0.66	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	74	mg/L	5	5	SM2320B-2011	#
Chloride	235	mg/L	5.0	2.2	SW846 9056A	#
pH	8.04	pH_Units			S4500HB-11	#
Specific Conductance	2410	umhos/cm	50	1	SW846 9050A	#
Sulfate	824	mg/L	10.0	7.0	SW846 9056A	#

Detected Results Summary

Sample - MW-19D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Total Dissolved Solids	1460	mg/L	25	25	SM2540C-15	#
Turbidity	5.0	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-11S	Collected	12/12/2024 09:40
Lab Sample ID	3392161005	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Total	0.0073J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.0031J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.079	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.079	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	122	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	122	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0023J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0037J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.24	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.26	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	54.8	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	55.0	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.11	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.11	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	9.4	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	9.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	80.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	79.5	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	1.1J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	1.4J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	1.5J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	0.98J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	6.7	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	1.9J	ug/L	3.0	0.25	SW846 8270E	#
Fluorene	0.86J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	106	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	0.35J	ug/L	1.5	0.25	SW846 8270E	#
Phenol	2.2J	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	2.1	ug/L	1.0	0.25	SW846 8260D	#
Benzene	186	ug/L	1.0	0.23	SW846 8260D	#
Ethylbenzene	2.5	ug/L	1.0	0.34	SW846 8260D	#
Isopropylbenzene	0.48J	ug/L	1.0	0.22	SW846 8260D	#
mp-Xylene	3.2	ug/L	2.0	0.52	SW846 8260D	#
o-Xylene	3.3	ug/L	1.0	0.33	SW846 8260D	#
Styrene	0.24J	ug/L	1.0	0.24	SW846 8260D	#
Toluene	0.60J	ug/L	1.0	0.23	SW846 8260D	#
Total Xylenes	6.5	ug/L	3.0	0.66	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	106	mg/L	5	5	SM2320B-2011	#
Chloride	151	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	0.98J	mg/L	2.5	0.80	SW846 9056A	#
pH	8.18	pH_Units			S4500HB-11	#
Specific Conductance	1550	umhos/cm	5	0.1	SW846 9050A	#

Detected Results Summary

Sample - MW-11S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Sulfate	476	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	950	mg/L	25	25	SM2540C-15	#
Turbidity	1.5	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-11D	Collected	12/12/2024 10:55
Lab Sample ID	3392161006	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Total	0.0086J	mg/L	0.022	0.0073	SW846 6010C	#
Barium, Dissolved	0.044	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.049	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	95.9	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	99.6	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0026J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0052J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.35	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.35	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	88.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	80.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.074	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.077	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	10.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	10.5	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.010J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.0097J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	154	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	139	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	76.0	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	8.5	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	36.8	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	1.2J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	12.8	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	121	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	25.5	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	0.49J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	25.7	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	2910	ug/L	30.0	13.0	SW846 8270E	#
Phenanthrene	10.2	ug/L	1.5	0.25	SW846 8270E	#
Phenol	2.1J	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	78.6	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	15.7J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	2150	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	25.5J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	49.6J	ug/L	100	26.0	SW846 8260D	#
o-Xylene	61.7	ug/L	50.0	16.5	SW846 8260D	#
Toluene	12.9J	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	111J	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	127	mg/L	5	5	SM2320B-2011	#
Chloride	313	mg/L	5.0	2.2	SW846 9056A	#

Detected Results Summary

Sample - MW-11D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
pH	8.13	pH_Units			S4500HB-11	#
Specific Conductance	2270	umhos/cm	50	1	SW846 9050A	#
Sulfate	789	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1290	mg/L	25	25	SM2540C-15	#
Turbidity	3.3	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-11D-Dup	Collected	12/12/2024 11:10
Lab Sample ID	3392161007	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.044	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.044	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	95.9	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	95.8	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0031J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0053J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.35	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.36	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	88.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	86.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.075	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.075	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	10.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	10.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	155	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	151	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	99.4	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	63.6	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	7.2	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	31.1	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	1.0J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	11.1	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	105	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	21.8	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	0.40J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	21.4	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	2250	ug/L	1500	650	SW846 8270E	#
Phenanthrene	8.6	ug/L	1.5	0.25	SW846 8270E	#
Phenol	1.3J	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	74.7	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	15.1J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	2090	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	25.7J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	45.6J	ug/L	100	26.0	SW846 8260D	#
o-Xylene	59.4	ug/L	50.0	16.5	SW846 8260D	#
Toluene	12.7J	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	105J	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	131	mg/L	5	5	SM2320B-2011	#
Chloride	325	mg/L	5.0	2.2	SW846 9056A	#
pH	8.16	pH_Units			S4500HB-11	#
Specific Conductance	2490	umhos/cm	50	1	SW846 9050A	#

Detected Results Summary

Sample - MW-11D-Dup (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Sulfate	814	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1330	mg/L	25	25	SM2540C-15	#
Turbidity	3.5	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-31	Collected	12/12/2024 14:30
Lab Sample ID	3392161008	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Dissolved	0.014J	mg/L	0.022	0.010	SW846 6010C	#
Arsenic, Dissolved	0.0077J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0099	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.047	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.046	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	283	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	296	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0030J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0029J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0054J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0097J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.17	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.29	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	27.2	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	27.8	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.086	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.12	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	20.3	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	21.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.014J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.024	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	340	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	335	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	199	ug/L	75.0	12.5	SW846 8270E	#
Acenaphthene	1.5J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	3.0	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	193	ug/L	150	45.0	SW846 8270E	#
Anthracene	0.32J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	8.2	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	7.5	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	8.9	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	0.45J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	6.6	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	3800	ug/L	75.0	32.5	SW846 8270E	#
Phenanthrene	3.9	ug/L	1.5	0.25	SW846 8270E	#
Phenol	279J	ug/L	400	25.0	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	242J	ug/L	500	125	SW846 8260D	#
1,3,5-Trimethylbenzene	129J	ug/L	500	100	SW846 8260D	#
Benzene	19100	ug/L	500	115	SW846 8260D	#
mp-Xylene	996J	ug/L	1000	260	SW846 8260D	#
o-Xylene	547	ug/L	500	165	SW846 8260D	#
Toluene	2740	ug/L	500	115	SW846 8260D	#
Total Xylenes	1540	ug/L	1500	330	SW846 8260D	#

Detected Results Summary

Sample - MW-31 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Alkalinity, Total	96	mg/L	5	5	SM2320B-2011	#
Chloride	534	mg/L	10.0	4.4	SW846 9056A	#
Nitrate-N	1.1J	mg/L	2.5	0.80	SW846 9056A	#
pH	8.42	pH_Units			S4500HB-11	#
Specific Conductance	3000	umhos/cm	50	1	SW846 9050A	#
Sulfate	1050	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2200	mg/L	25	25	SM2540C-15	#
Turbidity	120	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-29	Collected	12/12/2024 15:10
Lab Sample ID	3392161009	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Dissolved	0.82	mg/L	0.11	0.036	SW846 6010C	#
Aluminum, Total	0.84	mg/L	0.11	0.036	SW846 6010C	#
Antimony, Dissolved	0.012J	mg/L	0.022	0.010	SW846 6010C	#
Barium, Dissolved	0.039	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.041	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	104	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	113	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0023J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.55	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.65	mg/L	0.067	0.022	SW846 6010C	#
Lead, Total	0.040	mg/L	0.0067	0.0022	SW846 6010C	#
Magnesium, Dissolved	1.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	1.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Total	0.0036J	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	24.4	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	24.4	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.011J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	293	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	298	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	8.3	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	1.1J	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	81.6	ug/L	3.0	0.90	SW846 8270E	#
Biphenyl	0.46J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	6.0	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	0.47J	ug/L	3.0	0.25	SW846 8270E	#
Naphthalene	742	ug/L	150	65.0	SW846 8270E	#
Phenol	11.8	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	969	ug/L	500	125	SW846 8260D	#
1,3,5-Trimethylbenzene	870	ug/L	500	100	SW846 8260D	#
Benzene	13400	ug/L	500	115	SW846 8260D	#
mp-Xylene	32900	ug/L	1000	260	SW846 8260D	#
o-Xylene	9600	ug/L	500	165	SW846 8260D	#
Styrene	369J	ug/L	500	120	SW846 8260D	#
Toluene	25300	ug/L	500	115	SW846 8260D	#
Total Xylenes	42500	ug/L	1500	330	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	187	mg/L	5	5	SM2320B-2011	#
Chloride	231	mg/L	5.0	2.2	SW846 9056A	#
pH	9.64	pH_Units			S4500HB-11	#
Specific Conductance	2070	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	452	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1240	mg/L	25	25	SM2540C-15	#
Turbidity	16	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Sample - MW-29 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag

Detected Results Summary

Client Sample ID	MW-8S	Collected	12/12/2024 14:30
Lab Sample ID	3392161010	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.018J	mg/L	0.020	0.0065	SW846 6010C	#
Barium, Total	0.017J	mg/L	0.020	0.0065	SW846 6010C	#
Calcium, Dissolved	267	mg/L	0.20	0.065	SW846 6010C	#
Calcium, Total	275	mg/L	0.20	0.065	SW846 6010C	#
Chromium, Dissolved	0.0050J	mg/L	0.010	0.0036	SW846 6010C	#
Iron, Dissolved	9.5	mg/L	0.12	0.040	SW846 6010C	#
Iron, Total	10.2	mg/L	0.12	0.040	SW846 6010C	#
Magnesium, Dissolved	30.7	mg/L	0.20	0.065	SW846 6010C	#
Magnesium, Total	31.0	mg/L	0.20	0.065	SW846 6010C	#
Manganese, Dissolved	0.015	mg/L	0.010	0.0036	SW846 6010C	#
Manganese, Total	0.021	mg/L	0.010	0.0036	SW846 6010C	#
Potassium, Dissolved	6.5	mg/L	1.0	0.32	SW846 6010C	#
Potassium, Total	6.6	mg/L	1.0	0.32	SW846 6010C	#
Selenium, Dissolved	0.16	mg/L	0.040	0.013	SW846 6010C	#
Selenium, Total	0.14	mg/L	0.040	0.013	SW846 6010C	#
Sodium, Dissolved	8.2	mg/L	1.0	0.32	SW846 6010C	#
Sodium, Total	8.0	mg/L	1.0	0.32	SW846 6010C	#
SEMIVOLATILES						
Acenaphthylene	0.41J	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	0.76J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	1.0J	ug/L	1.5	0.65	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	29	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	326	mg/L	5	5	SM2320B-2011	#
Chloride	3.1J	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	18.5	mg/L	2.5	0.80	SW846 9056A	#
pH	8.30	pH_Units			S4500HB-11	#
Specific Conductance	1300	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	316	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	992	mg/L	25	25	SM2540C-15	#
Turbidity	2.0	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-8D	Collected	12/12/2024 15:45
Lab Sample ID	3392161011	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.013	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.014	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.056	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.051	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	193	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	194	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0022J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.62	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	1.4	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	82.0	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	81.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.26	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.26	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	6.0	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	5.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	70.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	54.2	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	60.3	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	6.0	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	7.4	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	5.7	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	1.1J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	3.0J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	104	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	12.0	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	1.6	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	10.2	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	264	ug/L	6.0	2.6	SW846 8270E	#
Phenanthrene	4.5	ug/L	1.5	0.25	SW846 8270E	#
Phenol	2.9J	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	0.71J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	87.7	ug/L	20.0	5.0	SW846 8260D	#
1,3,5-Trimethylbenzene	7.0J	ug/L	20.0	4.0	SW846 8260D	#
Benzene	750	ug/L	20.0	4.6	SW846 8260D	#
Ethylbenzene	94.7	ug/L	20.0	6.8	SW846 8260D	#
Isopropylbenzene	6.9J	ug/L	20.0	4.4	SW846 8260D	#
mp-Xylene	20.1J	ug/L	40.0	10.4	SW846 8260D	#
o-Xylene	14.4J	ug/L	20.0	6.6	SW846 8260D	#
Toluene	37.6	ug/L	20.0	4.6	SW846 8260D	#
Total Xylenes	34.5J	ug/L	60.0	13.2	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	24	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	489	mg/L	50	50	SM2320B-2011	#

Detected Results Summary

Sample - MW-8D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Chloride	96.2	mg/L	5.0	2.2	SW846 9056A	#
pH	8.35	pH_Units			S4500HB-11	#
Specific Conductance	1950	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	527	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1180	mg/L	25	25	SM2540C-15	#
Turbidity	40	NTU	0.30	0.30	SM2130B-2011	#

Results

Client Sample ID	MW-33	Collected	12/12/2024 09:39
Lab Sample ID	3392161001	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Barium, Dissolved	0.042		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Barium, Total	0.041		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Calcium, Dissolved	146		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Calcium, Total	145		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Chromium, Dissolved	0.0050J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Chromium, Total	0.0043J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Copper, Dissolved	0.087		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Copper, Total	0.0063J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Iron, Dissolved	0.19		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Iron, Total	0.19		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Magnesium, Dissolved	39.1		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Magnesium, Total	39.0		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Manganese, Dissolved	0.025		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Manganese, Total	0.025		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:46	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:45	AJN	E2
Nickel, Dissolved	0.15		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Potassium, Dissolved	4.6		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Potassium, Total	4.6		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Selenium, Dissolved	0.064		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Selenium, Total	0.061		mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Sodium, Dissolved	167		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Sodium, Total	167		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Zinc, Dissolved	0.0076J	J	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:34	MSY	E1

Results

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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 17:08	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 17:08	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 17:08	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:08	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 17:08	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 17:08	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 17:08	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:08	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 17:08	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 17:08	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 17:08	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:08	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 17:08	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 17:08	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:08	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 17:08	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:08	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 17:08	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 17:08	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 17:08	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:08	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 17:08	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 17:08	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 17:08	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 17:08	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	89.7%	23 – 131	12/20/2024 17:08	
2-Fluorobiphenyl	321-60-8	64%	24 – 116	12/20/2024 17:08	
2-Fluorophenol	367-12-4	42.9%	10 – 85	12/20/2024 17:08	
Nitrobenzene-d5	4165-60-0	72.1%	32 – 125	12/20/2024 17:08	
Phenol-d5	4165-62-2	35.2%	7 – 56	12/20/2024 17:08	
Terphenyl-d14	98904-43-9	38.4*%	41 – 145	12/20/2024 17:08	2

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 01:06	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 01:06	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 01:06	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 01:06	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 01:06	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 01:06	PDK	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:06	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:06	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 01:06	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 01:06	PDK	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 01:06	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:06	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:06	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 01:06	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 01:06	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:06	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 01:06	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:06	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:06	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:06	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:06	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:06	PDK	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 01:06	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 01:06	PDK	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 01:06	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 01:06	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 01:06	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:06	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 01:06	PDK	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 01:06	PDK	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:06	PDK	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:06	PDK	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 01:06	PDK	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:06	PDK	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 01:06	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 01:06	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:06	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:06	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:06	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 01:06	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.9%	62 – 133	12/20/2024 01:06	
4-Bromofluorobenzene	460-00-4	97.2%	79 – 114	12/20/2024 01:06	
Dibromofluoromethane	1868-53-7	93.5%	78 – 116	12/20/2024 01:06	
Toluene-d8	2037-26-5	98.6%	76 – 127	12/20/2024 01:06	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	6	3	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	203	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 17:47	JXK	I
Chloride	114		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 20:45	J1W	I
Nitrate-N	18.1		mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 20:45	J1W	I
pH	8.25	5	pH_Units			S4500HB-11	1	12/26/2024 17:47	JXK	I
Specific Conductance	1640		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	442		mg/L	5.0	3.5	SW846 9056A	5	12/13/2024 20:45	J1W	I
Total Dissolved Solids	1210		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	1.0		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-32	Collected	12/12/2024 11:15
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Antimony, Total	0.0077J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Arsenic, Dissolved	0.0070J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Arsenic, Total	0.0058J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Barium, Dissolved	0.076		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Barium, Total	0.075		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Calcium, Dissolved	201		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Calcium, Total	199		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Iron, Dissolved	1.1		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Iron, Total	1.2		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Magnesium, Dissolved	39.5		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Magnesium, Total	39.4		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Manganese, Dissolved	0.68		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Manganese, Total	0.70		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:42	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:13	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Potassium, Dissolved	15.0		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Potassium, Total	15.0		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Sodium, Dissolved	118		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Sodium, Total	116		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:35	MSY	E1

Results

Client Sample ID	MW-32	Collected	12/12/2024 11:15
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 19:13	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 19:13	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 19:13	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:13	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 19:13	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 19:13	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 19:13	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:13	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 19:13	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 19:13	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 19:13	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:13	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 19:13	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 19:13	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D

Results

Client Sample ID	MW-32	Collected	12/12/2024 11:15
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:13	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 19:13	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:13	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 19:13	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 19:13	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 19:13	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:13	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
Naphthalene	0.70J	J	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 19:13	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 19:13	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 19:13	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 19:13	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	46.5%	23 – 131	12/20/2024 19:13	
2-Fluorobiphenyl	321-60-8	58.2%	24 – 116	12/20/2024 19:13	
2-Fluorophenol	367-12-4	25.2%	10 – 85	12/20/2024 19:13	
Nitrobenzene-d5	4165-60-0	64%	32 – 125	12/20/2024 19:13	
Phenol-d5	4165-62-2	25.9%	7 – 56	12/20/2024 19:13	
Terphenyl-d14	98904-43-9	36.7*%	41 – 145	12/20/2024 19:13	6

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 01:26	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 01:26	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 01:26	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 01:26	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 01:26	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 01:26	PDK	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:26	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:26	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 01:26	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 01:26	PDK	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 01:26	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:26	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:26	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 01:26	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 01:26	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:26	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 01:26	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:26	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:26	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:26	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:26	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:26	PDK	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 01:26	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 01:26	PDK	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 01:26	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 01:26	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 01:26	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:26	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 01:26	PDK	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 01:26	PDK	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:26	PDK	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:26	PDK	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 01:26	PDK	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:26	PDK	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 01:26	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 01:26	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:26	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:26	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:26	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 01:26	PDK	A

Results

Client Sample ID	MW-32	Collected	12/12/2024 11:15
Lab Sample ID	3392161002	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/20/2024 01:26	
4-Bromofluorobenzene	460-00-4	99%	79 – 114	12/20/2024 01:26	
Dibromofluoromethane	1868-53-7	97.9%	78 – 116	12/20/2024 01:26	
Toluene-d8	2037-26-5	101%	76 – 127	12/20/2024 01:26	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	17	3	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	331	4	mg/L	50	50	SM2320B-2011	10	12/26/2024 16:08	JXK	I
Chloride	217	7	mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 20:57	J1W	I
Nitrate-N	ND	ND,8,9	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 20:57	J1W	I
pH	8.32	5	pH_Units			S4500HB-11	1	12/19/2024 11:54	KMV	I
Specific Conductance	1660		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	148	10,11	mg/L	5.0	3.5	SW846 9056A	5	12/13/2024 20:57	J1W	I
Total Dissolved Solids	1050		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	9.1		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-19S	Collected	12/12/2024 09:50
Lab Sample ID	3392161003	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Antimony, Total	0.0098J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Barium, Dissolved	0.067		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Barium, Total	0.065		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Calcium, Dissolved	137		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Calcium, Total	136		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Chromium, Dissolved	0.0044J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Chromium, Total	0.0037J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Iron, Dissolved	0.26		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Iron, Total	0.26		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Magnesium, Dissolved	35.7		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Magnesium, Total	35.4		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Manganese, Dissolved	0.025		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Manganese, Total	0.022		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:32	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:02	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Potassium, Dissolved	5.5		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Potassium, Total	5.5		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Selenium, Dissolved	0.029		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Selenium, Total	0.032		mg/L	0.022	0.0073	SW846 6010C	1	12/19/2024 15:11	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Sodium, Dissolved	44.7		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Sodium, Total	43.6		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:41	MSY	E1

Results

Client Sample ID	MW-19S	Collected	12/12/2024 09:50
Lab Sample ID	3392161003	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 17:58	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 17:58	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 17:58	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:58	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 17:58	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 17:58	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 17:58	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:58	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 17:58	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 17:58	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 17:58	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:58	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 17:58	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 17:58	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D

Results

Client Sample ID	MW-19S	Collected	12/12/2024 09:50
Lab Sample ID	3392161003	Lab Receipt	12/13/2024 08:54

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:58	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 17:58	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:58	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 17:58	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 17:58	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 17:58	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:58	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 17:58	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 17:58	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 17:58	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 17:58	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	77.5%	23 – 131	12/20/2024 17:58	
2-Fluorobiphenyl	321-60-8	58.1%	24 – 116	12/20/2024 17:58	
2-Fluorophenol	367-12-4	38.3%	10 – 85	12/20/2024 17:58	
Nitrobenzene-d5	4165-60-0	63.6%	32 – 125	12/20/2024 17:58	
Phenol-d5	4165-62-2	31.8%	7 – 56	12/20/2024 17:58	
Terphenyl-d14	98904-43-9	41%	41 – 145	12/20/2024 17:58	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 01:47	PDK	A

Results

Client Sample ID	MW-19S	Collected	12/12/2024 09:50
Lab Sample ID	3392161003	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 01:47	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 01:47	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 01:47	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 01:47	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 01:47	PDK	A
Benzene	0.42J	J	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:47	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:47	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 01:47	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 01:47	PDK	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 01:47	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:47	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:47	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 01:47	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 01:47	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:47	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 01:47	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:47	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:47	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:47	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:47	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:47	PDK	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 01:47	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 01:47	PDK	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 01:47	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 01:47	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 01:47	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:47	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 01:47	PDK	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 01:47	PDK	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:47	PDK	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:47	PDK	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 01:47	PDK	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:47	PDK	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 01:47	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 01:47	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:47	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:47	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:47	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 01:47	PDK	A

Results

Client Sample ID	MW-19S	Collected	12/12/2024 09:50
Lab Sample ID	3392161003	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/20/2024 01:47	
4-Bromofluorobenzene	460-00-4	96.4%	79 – 114	12/20/2024 01:47	
Dibromofluoromethane	1868-53-7	96.4%	78 – 116	12/20/2024 01:47	
Toluene-d8	2037-26-5	99.9%	76 – 127	12/20/2024 01:47	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	16	3	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	246	4	mg/L	50	50	SM2320B-2011	10	12/26/2024 16:20	JXK	I
Chloride	62.6		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 22:00	J1W	I
Nitrate-N	4.7		mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 22:00	J1W	I
pH	8.45	5	pH_Units			S4500HB-11	1	12/19/2024 12:11	KMV	I
Specific Conductance	1030		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	284		mg/L	5.0	3.5	SW846 9056A	5	12/13/2024 22:00	J1W	I
Total Dissolved Solids	744		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	1.1		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-19D	Collected	12/12/2024 11:25
Lab Sample ID	3392161004	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Barium, Dissolved	0.070		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Barium, Total	0.070		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Calcium, Dissolved	174		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Calcium, Total	174		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Chromium, Dissolved	0.0026J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Chromium, Total	0.0023J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Copper, Total	0.0061J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Iron, Dissolved	0.29		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Iron, Total	0.31		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Magnesium, Dissolved	83.9		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Magnesium, Total	83.1		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Manganese, Dissolved	0.097		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Manganese, Total	0.10		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:47	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:10	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Potassium, Dissolved	11.8		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Potassium, Total	12.0		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Selenium, Total	0.0086J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Sodium, Dissolved	125		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Sodium, Total	123		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:42	MSY	E1

Results

Client Sample ID	MW-19D	Collected	12/12/2024 11:25
Lab Sample ID	3392161004	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 19:38	CGS	D
2-Methylnaphthalene	1.2J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 19:38	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 19:38	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:38	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 19:38	CGS	D
Acenaphthene	4.2		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Acenaphthylene	2.5		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 19:38	CGS	D
Anthracene	0.75J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 19:38	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:38	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 19:38	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 19:38	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 19:38	CGS	D
Biphenyl	1.5J	J	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:38	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 19:38	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 19:38	CGS	D
Carbazole	13.1		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D

Results

Client Sample ID	MW-19D	Collected	12/12/2024 11:25
Lab Sample ID	3392161004	Lab Receipt	12/13/2024 08:54

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:38	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 19:38	CGS	D
Dibenzofuran	4.8		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:38	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Fluoranthene	0.57J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Fluorene	6.0		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 19:38	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 19:38	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 19:38	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:38	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
Naphthalene	62.3		ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 19:38	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 19:38	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 19:38	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 19:38	CGS	D
Phenanthrene	5.5		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
Pyrene	0.28J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	69%	23 – 131	12/20/2024 19:38	
2-Fluorobiphenyl	321-60-8	74.3%	24 – 116	12/20/2024 19:38	
2-Fluorophenol	367-12-4	38%	10 – 85	12/20/2024 19:38	
Nitrobenzene-d5	4165-60-0	82.5%	32 – 125	12/20/2024 19:38	
Phenol-d5	4165-62-2	37.4%	7 – 56	12/20/2024 19:38	
Terphenyl-d14	98904-43-9	46.4%	41 – 145	12/20/2024 19:38	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 02:07	PDK	A

Results

Client Sample ID	MW-19D	Collected	12/12/2024 11:25
Lab Sample ID	3392161004	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	0.60J	J	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 02:07	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 02:07	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 02:07	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 02:07	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 02:07	PDK	A
Benzene	113		ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 02:07	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 02:07	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 02:07	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 02:07	PDK	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 02:07	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 02:07	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 02:07	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 02:07	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 02:07	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:07	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 02:07	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 02:07	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 02:07	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 02:07	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 02:07	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:07	PDK	A
Ethylbenzene	2.9		ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 02:07	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 02:07	PDK	A
Isopropylbenzene	0.62J	J	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 02:07	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 02:07	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 02:07	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:07	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 02:07	PDK	A
mp-Xylene	0.83J	J	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 02:07	PDK	A
o-Xylene	0.61J	J	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:07	PDK	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 02:07	PDK	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 02:07	PDK	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 02:07	PDK	A
Total Xylenes	1.4J	J	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 02:07	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 02:07	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 02:07	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:07	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 02:07	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 02:07	PDK	A

Results

Client Sample ID	MW-19D	Collected	12/12/2024 11:25
Lab Sample ID	3392161004	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/20/2024 02:07	
4-Bromofluorobenzene	460-00-4	95.5%	79 – 114	12/20/2024 02:07	
Dibromofluoromethane	1868-53-7	94.5%	78 – 116	12/20/2024 02:07	
Toluene-d8	2037-26-5	98.2%	76 – 127	12/20/2024 02:07	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	74	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 16:30	JXK	I
Chloride	235		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 22:12	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 22:12	J1W	I
pH	8.04	5	pH_Units			S4500HB-11	1	12/19/2024 12:20	KMV	I
Specific Conductance	2410		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	824		mg/L	10.0	7.0	SW846 9056A	10	12/17/2024 23:55	J1W	I
Total Dissolved Solids	1460		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	5.0		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-11S	Collected	12/12/2024 09:40
Lab Sample ID	3392161005	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Antimony, Total	0.0073J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Arsenic, Dissolved	0.0031J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Barium, Dissolved	0.079		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Barium, Total	0.079		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Calcium, Dissolved	122		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Calcium, Total	122		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Chromium, Dissolved	0.0023J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Copper, Total	0.0037J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Iron, Dissolved	0.24		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Iron, Total	0.26		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Magnesium, Dissolved	54.8		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Magnesium, Total	55.0		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Manganese, Dissolved	0.11		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Manganese, Total	0.11		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:41	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:12	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Potassium, Dissolved	9.4		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Potassium, Total	9.2		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Sodium, Dissolved	80.6		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Sodium, Total	79.5		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:43	MSY	E1

Results

Client Sample ID	MW-11S	Collected	12/12/2024 09:40
Lab Sample ID	3392161005	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 17:33	CGS	D
2-Methylnaphthalene	1.1J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 17:33	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 17:33	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:33	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 17:33	CGS	D
Acenaphthene	1.4J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Acenaphthylene	1.5J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 17:33	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 17:33	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:33	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 17:33	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 17:33	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 17:33	CGS	D
Biphenyl	0.98J	J	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:33	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 17:33	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 17:33	CGS	D
Carbazole	6.7		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D

Results

Client Sample ID	MW-11S	Collected	12/12/2024 09:40
Lab Sample ID	3392161005	Lab Receipt	12/13/2024 08:54

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:33	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 17:33	CGS	D
Dibenzofuran	1.9J	J	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:33	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Fluorene	0.86J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 17:33	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 17:33	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 17:33	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:33	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
Naphthalene	106		ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 17:33	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 17:33	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 17:33	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 17:33	CGS	D
Phenanthrene	0.35J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Phenol	2.2J	J	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	86%	23 – 131	12/20/2024 17:33	
2-Fluorobiphenyl	321-60-8	73.4%	24 – 116	12/20/2024 17:33	
2-Fluorophenol	367-12-4	45%	10 – 85	12/20/2024 17:33	
Nitrobenzene-d5	4165-60-0	81.7%	32 – 125	12/20/2024 17:33	
Phenol-d5	4165-62-2	39.1%	7 – 56	12/20/2024 17:33	
Terphenyl-d14	98904-43-9	48.5%	41 – 145	12/20/2024 17:33	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 02:48	PDK	A

Results

Client Sample ID	MW-11S	Collected	12/12/2024 09:40
Lab Sample ID	3392161005	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	2.1		ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 02:48	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 02:48	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 02:48	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 02:48	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 02:48	PDK	A
Benzene	186		ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 02:48	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 02:48	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 02:48	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 02:48	PDK	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 02:48	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 02:48	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 02:48	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 02:48	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 02:48	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:48	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 02:48	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 02:48	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 02:48	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 02:48	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 02:48	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:48	PDK	A
Ethylbenzene	2.5		ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 02:48	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 02:48	PDK	A
Isopropylbenzene	0.48J	J	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 02:48	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 02:48	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 02:48	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:48	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 02:48	PDK	A
mp-Xylene	3.2		ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 02:48	PDK	A
o-Xylene	3.3		ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:48	PDK	A
Styrene	0.24J	J	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 02:48	PDK	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 02:48	PDK	A
Toluene	0.60J	J	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 02:48	PDK	A
Total Xylenes	6.5		ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 02:48	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 02:48	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 02:48	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:48	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 02:48	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 02:48	PDK	A

Results

Client Sample ID	MW-11S	Collected	12/12/2024 09:40
Lab Sample ID	3392161005	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/20/2024 02:48	
4-Bromofluorobenzene	460-00-4	96.3%	79 – 114	12/20/2024 02:48	
Dibromofluoromethane	1868-53-7	95%	78 – 116	12/20/2024 02:48	
Toluene-d8	2037-26-5	98.6%	76 – 127	12/20/2024 02:48	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	106	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 16:40	JXK	I
Chloride	151		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 22:24	J1W	I
Nitrate-N	0.98J	J	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 22:24	J1W	I
pH	8.18	5	pH_Units			S4500HB-11	1	12/19/2024 12:30	KMV	I
Specific Conductance	1550		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	476		mg/L	5.0	3.5	SW846 9056A	5	12/13/2024 22:24	J1W	I
Total Dissolved Solids	950		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	1.5		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-11D	Collected	12/12/2024 10:55
Lab Sample ID	3392161006	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Antimony, Total	0.0086J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Barium, Dissolved	0.044		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Barium, Total	0.049		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Calcium, Dissolved	95.9		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Calcium, Total	99.6		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Chromium, Dissolved	0.0026J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Chromium, Total	0.0021J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Copper, Total	0.0052J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Iron, Dissolved	0.35		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Iron, Total	0.35		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Magnesium, Dissolved	88.6		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Magnesium, Total	80.4		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Manganese, Dissolved	0.074		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Manganese, Total	0.077		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:37	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:14	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Potassium, Dissolved	10.6		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Potassium, Total	10.5		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Selenium, Dissolved	0.010J	J	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Selenium, Total	0.0097J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Sodium, Dissolved	154		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Sodium, Total	139		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:44	MSY	E1

Results

Client Sample ID	MW-11D	Collected	12/12/2024 10:55
Lab Sample ID	3392161006	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 18:23	CGS	D
2-Methylnaphthalene	76.0		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 18:23	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 18:23	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:23	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 18:23	CGS	D
Acenaphthene	8.5		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Acenaphthylene	36.8		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 18:23	CGS	D
Anthracene	1.2J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 18:23	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:23	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 18:23	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 18:23	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 18:23	CGS	D
Biphenyl	12.8		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:23	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 18:23	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 18:23	CGS	D
Carbazole	121		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D

Results

Client Sample ID	MW-11D	Collected	12/12/2024 10:55
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:23	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 18:23	CGS	D
Dibenzofuran	25.5		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:23	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Fluoranthene	0.49J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Fluorene	25.7		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 18:23	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 18:23	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 18:23	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:23	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
Naphthalene	2910		ug/L	30.0	13.0	SW846 8270E	20	12/24/2024 05:26	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 18:23	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 18:23	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 18:23	CGS	D
Phenanthrene	10.2		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Phenol	2.1J	J	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	98.6%	23 – 131	12/20/2024 18:23	
2,4,6-Tribromophenol	118-79-6	96.8%	23 – 131	12/24/2024 05:26	
2-Fluorobiphenyl	321-60-8	84.9%	24 – 116	12/20/2024 18:23	
2-Fluorobiphenyl	321-60-8	94.1%	24 – 116	12/24/2024 05:26	
2-Fluorophenol	367-12-4	52%	10 – 85	12/20/2024 18:23	
2-Fluorophenol	367-12-4	61.3%	10 – 85	12/24/2024 05:26	
Nitrobenzene-d5	4165-60-0	97.6%	32 – 125	12/20/2024 18:23	
Nitrobenzene-d5	4165-60-0	103%	32 – 125	12/24/2024 05:26	
Phenol-d5	4165-62-2	43%	7 – 56	12/20/2024 18:23	
Phenol-d5	4165-62-2	46.9%	7 – 56	12/24/2024 05:26	
Terphenyl-d14	98904-43-9	43.7%	41 – 145	12/20/2024 18:23	
Terphenyl-d14	98904-43-9	46.7%	41 – 145	12/24/2024 05:26	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/20/2024 04:50	PDK	A

Results

Client Sample ID	MW-11D	Collected	12/12/2024 10:55
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2,4-Trimethylbenzene	78.6		ug/L	50.0	12.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,3,5-Trimethylbenzene	15.7J	J	ug/L	50.0	10.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/20/2024 04:50	PDK	A
Benzene	2150		ug/L	50.0	11.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Bromomethane	ND	ND,1	ug/L	50.0	19.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Ethylbenzene	25.5J	J	ug/L	50.0	17.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
mp-Xylene	49.6J	J	ug/L	100	26.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
o-Xylene	61.7		ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Styrene	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Toluene	12.9J	J	ug/L	50.0	11.5	SW846 8260D	50	12/20/2024 04:50	PDK	A

Results

Client Sample ID	MW-11D	Collected	12/12/2024 10:55
Lab Sample ID	3392161006	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	111J	J	ug/L	150	33.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/20/2024 04:50	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/20/2024 04:50	
4-Bromofluorobenzene	460-00-4	96.7%	79 – 114	12/20/2024 04:50	
Dibromofluoromethane	1868-53-7	94.8%	78 – 116	12/20/2024 04:50	
Toluene-d8	2037-26-5	98%	76 – 127	12/20/2024 04:50	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	127	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 16:55	JXK	I
Chloride	313		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 22:37	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 22:37	J1W	I
pH	8.13	5	pH_Units			S4500HB-11	1	12/19/2024 12:41	KMV	I
Specific Conductance	2270		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	789		mg/L	10.0	7.0	SW846 9056A	10	12/18/2024 00:06	J1W	I
Total Dissolved Solids	1290		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	3.3		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-11D-Dup	Collected	12/12/2024 11:10
Lab Sample ID	3392161007	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Barium, Dissolved	0.044		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Barium, Total	0.044		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Calcium, Dissolved	95.9		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Calcium, Total	95.8		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Chromium, Dissolved	0.0031J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Chromium, Total	0.0021J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Copper, Total	0.0053J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Iron, Dissolved	0.35		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Iron, Total	0.36		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Magnesium, Dissolved	88.9		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Magnesium, Total	86.7		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Manganese, Dissolved	0.075		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Manganese, Total	0.075		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:37	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:16	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Potassium, Dissolved	10.6		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Potassium, Total	10.6		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Sodium, Dissolved	155		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Sodium, Total	151		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:45	MSY	E1

Results

Client Sample ID	MW-11D-Dup	Collected	12/12/2024 11:10
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,4-Dimethylphenol	99.4		ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 18:48	CGS	D
2-Methylnaphthalene	63.6		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 18:48	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 18:48	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:48	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 18:48	CGS	D
Acenaphthene	7.2		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Acenaphthylene	31.1		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 18:48	CGS	D
Anthracene	1.0J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 18:48	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:48	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 18:48	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 18:48	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 18:48	CGS	D
Biphenyl	11.1		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:48	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 18:48	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 18:48	CGS	D
Carbazole	105		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:48	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 18:48	CGS	D
Dibenzofuran	21.8		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:48	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Fluoranthene	0.40J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Fluorene	21.4		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 18:48	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 18:48	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 18:48	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:48	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
Naphthalene	2250		ug/L	1500	650	SW846 8270E	1000	12/26/2024 22:29	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 18:48	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 18:48	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 18:48	CGS	D
Phenanthrene	8.6		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Phenol	1.3J	J	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	49.5%	23 – 131	12/20/2024 18:48	
2-Fluorobiphenyl	321-60-8	73.8%	24 – 116	12/20/2024 18:48	
2-Fluorophenol	367-12-4	25%	10 – 85	12/20/2024 18:48	
Nitrobenzene-d5	4165-60-0	81%	32 – 125	12/20/2024 18:48	
Phenol-d5	4165-62-2	26.3%	7 – 56	12/20/2024 18:48	
Terphenyl-d14	98904-43-9	40.7* %	41 – 145	12/20/2024 18:48	12

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/20/2024 04:30	PDK	A

Results

Client Sample ID	MW-11D-Dup	Collected	12/12/2024 11:10
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	74.7		ug/L	50.0	12.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,3,5-Trimethylbenzene	15.1J	J	ug/L	50.0	10.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/20/2024 04:30	PDK	A
Benzene	2090		ug/L	50.0	11.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Bromomethane	ND	ND,1	ug/L	50.0	19.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Ethylbenzene	25.7J	J	ug/L	50.0	17.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
mp-Xylene	45.6J	J	ug/L	100	26.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
o-Xylene	59.4		ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Styrene	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Toluene	12.7J	J	ug/L	50.0	11.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Total Xylenes	105J	J	ug/L	150	33.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/20/2024 04:30	PDK	A

Results

Client Sample ID	MW-11D-Dup	Collected	12/12/2024 11:10
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/20/2024 04:30	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	12/20/2024 04:30	
Dibromofluoromethane	1868-53-7	94.3%	78 – 116	12/20/2024 04:30	
Toluene-d8	2037-26-5	97.7%	76 – 127	12/20/2024 04:30	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	131	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 17:09	JXK	I
Chloride	325		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 22:49	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 22:49	J1W	I
pH	8.16	5	pH_Units			S4500HB-11	1	12/19/2024 12:51	KMV	I
Specific Conductance	2490		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	814		mg/L	10.0	7.0	SW846 9056A	10	12/18/2024 00:17	J1W	I
Total Dissolved Solids	1330		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	3.5		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-31	Collected	12/12/2024 14:30
Lab Sample ID	3392161008	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Antimony, Dissolved	0.014J	J	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Arsenic, Dissolved	0.0077J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Arsenic, Total	0.0099		mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Barium, Dissolved	0.047		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Barium, Total	0.046		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Calcium, Dissolved	283		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Calcium, Total	296		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Chromium, Dissolved	0.0030J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Chromium, Total	0.0029J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Copper, Dissolved	0.0054J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Copper, Total	0.0097J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Iron, Dissolved	0.17		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Iron, Total	0.29		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Magnesium, Dissolved	27.2		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Magnesium, Total	27.8		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Manganese, Dissolved	0.086		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Manganese, Total	0.12		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:43	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:08	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Potassium, Dissolved	20.3		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Potassium, Total	21.2		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Selenium, Dissolved	0.014J	J	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Selenium, Total	0.024		mg/L	0.022	0.0073	SW846 6010C	1	12/19/2024 15:23	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Sodium, Dissolved	340		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Sodium, Total	335		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:46	MSY	E1

Results

Client Sample ID	MW-31	Collected	12/12/2024 14:30
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 20:03	CGS	D
2-Methylnaphthalene	199		ug/L	75.0	12.5	SW846 8270E	50	12/26/2024 22:54	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 20:03	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 20:03	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:03	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 20:03	CGS	D
Acenaphthene	1.5J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Acenaphthylene	3.0		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Acetophenone	193		ug/L	150	45.0	SW846 8270E	50	12/26/2024 22:54	M1O	D
Anthracene	0.32J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 20:03	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 20:03	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 20:03	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 20:03	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 20:03	CGS	D
Biphenyl	8.2		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:03	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 20:03	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 20:03	CGS	D
Carbazole	7.5		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D

Results

Client Sample ID	MW-31	Collected	12/12/2024 14:30
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 20:03	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 20:03	CGS	D
Dibenzofuran	8.9		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 20:03	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Fluoranthene	0.45J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Fluorene	6.6		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 20:03	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 20:03	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 20:03	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 20:03	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
Naphthalene	3800		ug/L	75.0	32.5	SW846 8270E	50	12/26/2024 22:54	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 20:03	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 20:03	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 20:03	CGS	D
Phenanthrene	3.9		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Phenol	279J	J	ug/L	400	25.0	SW846 8270E	50	12/26/2024 22:54	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	123%	23 – 131	12/20/2024 20:03	
2-Fluorobiphenyl	321-60-8	93.8%	24 – 116	12/20/2024 20:03	
2-Fluorophenol	367-12-4	70%	10 – 85	12/20/2024 20:03	
Nitrobenzene-d5	4165-60-0	110%	32 – 125	12/20/2024 20:03	
Phenol-d5	4165-62-2	55.3%	7 – 56	12/20/2024 20:03	
Terphenyl-d14	98904-43-9	44.7%	41 – 145	12/20/2024 20:03	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	500	110	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	500	170	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	500	140	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	500	145	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	1000	465	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	1000	300	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	1000	410	SW846 8260D	500	12/20/2024 05:51	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	242J	J	ug/L	500	125	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	3500	750	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	500	140	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	500	190	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	500	160	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	500	120	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,3,5-Trimethylbenzene	129J	J	ug/L	500	100	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	500	125	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	500	135	SW846 8260D	500	12/20/2024 05:51	PDK	A
2-Butanone	ND	ND	ug/L	5000	900	SW846 8260D	500	12/20/2024 05:51	PDK	A
2-Hexanone	ND	ND	ug/L	2500	650	SW846 8260D	500	12/20/2024 05:51	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	2500	750	SW846 8260D	500	12/20/2024 05:51	PDK	A
Acetone	ND	ND	ug/L	5000	1550	SW846 8260D	500	12/20/2024 05:51	PDK	A
Benzene	19100		ug/L	500	115	SW846 8260D	500	12/20/2024 05:51	PDK	A
Bromochloromethane	ND	ND	ug/L	500	160	SW846 8260D	500	12/20/2024 05:51	PDK	A
Bromodichloromethane	ND	ND	ug/L	500	135	SW846 8260D	500	12/20/2024 05:51	PDK	A
Bromoform	ND	ND	ug/L	500	200	SW846 8260D	500	12/20/2024 05:51	PDK	A
Bromomethane	ND	ND,1	ug/L	500	195	SW846 8260D	500	12/20/2024 05:51	PDK	A
Carbon Disulfide	ND	ND	ug/L	500	115	SW846 8260D	500	12/20/2024 05:51	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	500	155	SW846 8260D	500	12/20/2024 05:51	PDK	A
Chlorobenzene	ND	ND	ug/L	500	95.0	SW846 8260D	500	12/20/2024 05:51	PDK	A
Chlorodibromomethane	ND	ND	ug/L	500	225	SW846 8260D	500	12/20/2024 05:51	PDK	A
Chloroethane	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 05:51	PDK	A
Chloroform	ND	ND	ug/L	500	105	SW846 8260D	500	12/20/2024 05:51	PDK	A
Chloromethane	ND	ND	ug/L	500	155	SW846 8260D	500	12/20/2024 05:51	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	500	160	SW846 8260D	500	12/20/2024 05:51	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	500	155	SW846 8260D	500	12/20/2024 05:51	PDK	A
Cyclohexane	ND	ND	ug/L	500	145	SW846 8260D	500	12/20/2024 05:51	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 05:51	PDK	A
Ethylbenzene	ND	ND	ug/L	500	170	SW846 8260D	500	12/20/2024 05:51	PDK	A
Freon 113	ND	ND	ug/L	500	130	SW846 8260D	500	12/20/2024 05:51	PDK	A
Isopropylbenzene	ND	ND	ug/L	500	110	SW846 8260D	500	12/20/2024 05:51	PDK	A
Methyl acetate	ND	ND	ug/L	1000	160	SW846 8260D	500	12/20/2024 05:51	PDK	A
Methyl cyclohexane	ND	ND	ug/L	500	150	SW846 8260D	500	12/20/2024 05:51	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 05:51	PDK	A
Methylene Chloride	ND	ND	ug/L	500	225	SW846 8260D	500	12/20/2024 05:51	PDK	A
mp-Xylene	996J	J	ug/L	1000	260	SW846 8260D	500	12/20/2024 05:51	PDK	A
o-Xylene	547		ug/L	500	165	SW846 8260D	500	12/20/2024 05:51	PDK	A
Styrene	ND	ND	ug/L	500	120	SW846 8260D	500	12/20/2024 05:51	PDK	A
Tetrachloroethene	ND	ND	ug/L	500	175	SW846 8260D	500	12/20/2024 05:51	PDK	A
Toluene	2740		ug/L	500	115	SW846 8260D	500	12/20/2024 05:51	PDK	A
Total Xylenes	1540		ug/L	1500	330	SW846 8260D	500	12/20/2024 05:51	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	500	130	SW846 8260D	500	12/20/2024 05:51	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	500	145	SW846 8260D	500	12/20/2024 05:51	PDK	A
Trichloroethene	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 05:51	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	500	120	SW846 8260D	500	12/20/2024 05:51	PDK	A
Vinyl Chloride	ND	ND	ug/L	500	150	SW846 8260D	500	12/20/2024 05:51	PDK	A

Results

Client Sample ID	MW-31	Collected	12/12/2024 14:30
Lab Sample ID	3392161008	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.8%	62 – 133	12/20/2024 05:51	
4-Bromofluorobenzene	460-00-4	93.2%	79 – 114	12/20/2024 05:51	
Dibromofluoromethane	1868-53-7	92%	78 – 116	12/20/2024 05:51	
Toluene-d8	2037-26-5	95.5%	76 – 127	12/20/2024 05:51	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	96	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 17:24	JXK	I
Chloride	534		mg/L	10.0	4.4	SW846 9056A	10	12/18/2024 00:29	J1W	I
Nitrate-N	1.1J	J	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 23:02	J1W	I
pH	8.42	5	pH_Units			S4500HB-11	1	12/19/2024 13:06	KMV	I
Specific Conductance	3000		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	1050		mg/L	20.0	14.0	SW846 9056A	20	12/19/2024 08:06	J1W	I
Total Dissolved Solids	2200		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	120		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-29	Collected	12/12/2024 15:10
Lab Sample ID	3392161009	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	0.82		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Aluminum, Total	0.84		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:22	MSY	E
Antimony, Dissolved	0.012J	J	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:22	MSY	E
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:22	MSY	E
Barium, Dissolved	0.039		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Barium, Total	0.041		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:22	MSY	E
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:22	MSY	E
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:22	MSY	E
Calcium, Dissolved	104		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Calcium, Total	113		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:22	MSY	E
Chromium, Dissolved	0.0023J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:22	MSY	E
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:22	MSY	E
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:22	MSY	E
Iron, Dissolved	0.55		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Iron, Total	0.65		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:22	MSY	E
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Lead, Total	0.040		mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:22	MSY	E
Magnesium, Dissolved	1.9		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Magnesium, Total	1.5		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:22	MSY	E
Manganese, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Manganese, Total	0.0036J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:22	MSY	E
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:50	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:46	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:22	MSY	E
Potassium, Dissolved	24.4		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Potassium, Total	24.4		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:22	MSY	E
Selenium, Dissolved	0.011J	J	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:22	MSY	E
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:22	MSY	E
Sodium, Dissolved	293		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Sodium, Total	298		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:22	MSY	E
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:22	MSY	E
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:22	MSY	E
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:22	MSY	E

Results

Client Sample ID	MW-29	Collected	12/12/2024 15:10
Lab Sample ID	3392161009	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 20:53	CGS	D
2-Methylnaphthalene	8.3		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 20:53	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 20:53	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:53	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 20:53	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Acenaphthylene	1.1J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Acetophenone	81.6		ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 20:53	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 20:53	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 20:53	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 20:53	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 20:53	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 20:53	CGS	D
Biphenyl	0.46J	J	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:53	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 20:53	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 20:53	CGS	D
Carbazole	6.0		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D

Results

Client Sample ID	MW-29	Collected	12/12/2024 15:10
Lab Sample ID	3392161009	Lab Receipt	12/13/2024 08:54

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 20:53	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 20:53	CGS	D
Dibenzofuran	0.47J	J	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 20:53	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 20:53	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 20:53	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 20:53	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 20:53	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
Naphthalene	742		ug/L	150	65.0	SW846 8270E	100	12/24/2024 07:06	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 20:53	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 20:53	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 20:53	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Phenol	11.8		ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	92.8%	23 – 131	12/20/2024 20:53	
2,4,6-Tribromophenol	118-79-6	0*%	23 – 131	12/24/2024 07:06	17
2-Fluorobiphenyl	321-60-8	69.1%	24 – 116	12/20/2024 20:53	
2-Fluorobiphenyl	321-60-8	0*%	24 – 116	12/24/2024 07:06	16
2-Fluorophenol	367-12-4	47.9%	10 – 85	12/20/2024 20:53	
2-Fluorophenol	367-12-4	0*%	10 – 85	12/24/2024 07:06	13
Nitrobenzene-d5	4165-60-0	75.6%	32 – 125	12/20/2024 20:53	
Nitrobenzene-d5	4165-60-0	0*%	32 – 125	12/24/2024 07:06	15
Phenol-d5	4165-62-2	37%	7 – 56	12/20/2024 20:53	
Phenol-d5	4165-62-2	0*%	7 – 56	12/24/2024 07:06	14
Terphenyl-d14	98904-43-9	63.4%	41 – 145	12/20/2024 20:53	
Terphenyl-d14	98904-43-9	0*%	41 – 145	12/24/2024 07:06	18

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	500	110	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	500	170	SW846 8260D	500	12/20/2024 06:12	PDK	A

Results

Client Sample ID	MW-29	Collected	12/12/2024 15:10
Lab Sample ID	3392161009	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	500	140	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	500	145	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	1000	465	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	1000	300	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	1000	410	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2,4-Trimethylbenzene	969		ug/L	500	125	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	3500	750	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	500	140	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	500	190	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	500	160	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	500	120	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,3,5-Trimethylbenzene	870		ug/L	500	100	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	500	125	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	500	135	SW846 8260D	500	12/20/2024 06:12	PDK	A
2-Butanone	ND	ND	ug/L	5000	900	SW846 8260D	500	12/20/2024 06:12	PDK	A
2-Hexanone	ND	ND	ug/L	2500	650	SW846 8260D	500	12/20/2024 06:12	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	2500	750	SW846 8260D	500	12/20/2024 06:12	PDK	A
Acetone	ND	ND	ug/L	5000	1550	SW846 8260D	500	12/20/2024 06:12	PDK	A
Benzene	13400		ug/L	500	115	SW846 8260D	500	12/20/2024 06:12	PDK	A
Bromochloromethane	ND	ND	ug/L	500	160	SW846 8260D	500	12/20/2024 06:12	PDK	A
Bromodichloromethane	ND	ND	ug/L	500	135	SW846 8260D	500	12/20/2024 06:12	PDK	A
Bromoform	ND	ND	ug/L	500	200	SW846 8260D	500	12/20/2024 06:12	PDK	A
Bromomethane	ND	ND,1	ug/L	500	195	SW846 8260D	500	12/20/2024 06:12	PDK	A
Carbon Disulfide	ND	ND	ug/L	500	115	SW846 8260D	500	12/20/2024 06:12	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	500	155	SW846 8260D	500	12/20/2024 06:12	PDK	A
Chlorobenzene	ND	ND	ug/L	500	95.0	SW846 8260D	500	12/20/2024 06:12	PDK	A
Chlorodibromomethane	ND	ND	ug/L	500	225	SW846 8260D	500	12/20/2024 06:12	PDK	A
Chloroethane	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 06:12	PDK	A
Chloroform	ND	ND	ug/L	500	105	SW846 8260D	500	12/20/2024 06:12	PDK	A
Chloromethane	ND	ND	ug/L	500	155	SW846 8260D	500	12/20/2024 06:12	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	500	160	SW846 8260D	500	12/20/2024 06:12	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	500	155	SW846 8260D	500	12/20/2024 06:12	PDK	A
Cyclohexane	ND	ND	ug/L	500	145	SW846 8260D	500	12/20/2024 06:12	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 06:12	PDK	A
Ethylbenzene	ND	ND	ug/L	500	170	SW846 8260D	500	12/20/2024 06:12	PDK	A
Freon 113	ND	ND	ug/L	500	130	SW846 8260D	500	12/20/2024 06:12	PDK	A
Isopropylbenzene	ND	ND	ug/L	500	110	SW846 8260D	500	12/20/2024 06:12	PDK	A
Methyl acetate	ND	ND	ug/L	1000	160	SW846 8260D	500	12/20/2024 06:12	PDK	A
Methyl cyclohexane	ND	ND	ug/L	500	150	SW846 8260D	500	12/20/2024 06:12	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 06:12	PDK	A
Methylene Chloride	ND	ND	ug/L	500	225	SW846 8260D	500	12/20/2024 06:12	PDK	A
mp-Xylene	32900		ug/L	1000	260	SW846 8260D	500	12/20/2024 06:12	PDK	A
o-Xylene	9600		ug/L	500	165	SW846 8260D	500	12/20/2024 06:12	PDK	A
Styrene	369J	J	ug/L	500	120	SW846 8260D	500	12/20/2024 06:12	PDK	A
Tetrachloroethene	ND	ND	ug/L	500	175	SW846 8260D	500	12/20/2024 06:12	PDK	A
Toluene	25300		ug/L	500	115	SW846 8260D	500	12/20/2024 06:12	PDK	A

Results

Client Sample ID	MW-29	Collected	12/12/2024 15:10
Lab Sample ID	3392161009	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	42500		ug/L	1500	330	SW846 8260D	500	12/20/2024 06:12	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	500	130	SW846 8260D	500	12/20/2024 06:12	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	500	145	SW846 8260D	500	12/20/2024 06:12	PDK	A
Trichloroethene	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 06:12	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	500	120	SW846 8260D	500	12/20/2024 06:12	PDK	A
Vinyl Chloride	ND	ND	ug/L	500	150	SW846 8260D	500	12/20/2024 06:12	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/20/2024 06:12	
4-Bromofluorobenzene	460-00-4	99.7%	79 – 114	12/20/2024 06:12	
Dibromofluoromethane	1868-53-7	94.3%	78 – 116	12/20/2024 06:12	
Toluene-d8	2037-26-5	101%	76 – 127	12/20/2024 06:12	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	187	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 17:36	JXK	I
Chloride	231		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 23:14	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 23:14	J1W	I
pH	9.64	5	pH_Units			S4500HB-11	1	12/19/2024 13:18	KMV	I
Specific Conductance	2070		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	452		mg/L	5.0	3.5	SW846 9056A	5	12/13/2024 23:14	J1W	I
Total Dissolved Solids	1240		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	16		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-8S	Collected	12/12/2024 14:30
Lab Sample ID	3392161010	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.20	0.065	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.20	0.065	SW846 6010C	1	01/09/2025 09:23	MSY	E
Antimony, Dissolved	ND	ND	mg/L	0.040	0.018	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Antimony, Total	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/09/2025 09:23	MSY	E
Arsenic, Dissolved	ND	ND	mg/L	0.016	0.0054	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.016	0.0067	SW846 6010C	1	01/09/2025 09:23	MSY	E
Barium, Dissolved	0.018J	J	mg/L	0.020	0.0065	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Barium, Total	0.017J	J	mg/L	0.020	0.0065	SW846 6010C	1	01/09/2025 09:23	MSY	E
Beryllium, Dissolved	ND	ND	mg/L	0.0079	0.0025	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0079	0.0025	SW846 6010C	1	01/09/2025 09:23	MSY	E
Cadmium, Dissolved	ND	ND	mg/L	0.0040	0.0013	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0040	0.0013	SW846 6010C	1	01/09/2025 09:23	MSY	E
Calcium, Dissolved	267		mg/L	0.20	0.065	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Calcium, Total	275		mg/L	0.20	0.065	SW846 6010C	1	01/09/2025 09:23	MSY	E
Chromium, Dissolved	0.0050J	J	mg/L	0.010	0.0036	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Chromium, Total	ND	ND	mg/L	0.010	0.0036	SW846 6010C	1	01/09/2025 09:23	MSY	E
Cobalt, Dissolved	ND	ND	mg/L	0.010	0.0036	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.010	0.0036	SW846 6010C	1	01/09/2025 09:23	MSY	E
Copper, Dissolved	ND	ND	mg/L	0.020	0.0065	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Copper, Total	ND	ND	mg/L	0.020	0.0065	SW846 6010C	1	01/09/2025 09:23	MSY	E
Iron, Dissolved	9.5		mg/L	0.12	0.040	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Iron, Total	10.2		mg/L	0.12	0.040	SW846 6010C	1	01/09/2025 09:23	MSY	E
Lead, Dissolved	ND	ND	mg/L	0.012	0.0040	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Lead, Total	ND	ND	mg/L	0.012	0.0040	SW846 6010C	1	01/09/2025 09:23	MSY	E
Magnesium, Dissolved	30.7		mg/L	0.20	0.065	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Magnesium, Total	31.0		mg/L	0.20	0.065	SW846 6010C	1	01/09/2025 09:23	MSY	E
Manganese, Dissolved	0.015		mg/L	0.010	0.0036	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Manganese, Total	0.021		mg/L	0.010	0.0036	SW846 6010C	1	01/09/2025 09:23	MSY	E
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:45	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:15	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Nickel, Total	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/09/2025 09:23	MSY	E
Potassium, Dissolved	6.5		mg/L	1.0	0.32	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Potassium, Total	6.6		mg/L	1.0	0.32	SW846 6010C	1	01/09/2025 09:23	MSY	E
Selenium, Dissolved	0.16		mg/L	0.040	0.013	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Selenium, Total	0.14		mg/L	0.040	0.013	SW846 6010C	1	01/09/2025 09:23	MSY	E
Silver, Dissolved	ND	ND	mg/L	0.0079	0.0025	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Silver, Total	ND	ND	mg/L	0.0079	0.0025	SW846 6010C	1	01/09/2025 09:23	MSY	E
Sodium, Dissolved	8.2		mg/L	1.0	0.32	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Sodium, Total	8.0		mg/L	1.0	0.32	SW846 6010C	1	01/09/2025 09:23	MSY	E
Thallium, Dissolved	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Thallium, Total	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/09/2025 09:23	MSY	E
Vanadium, Dissolved	ND	ND	mg/L	0.010	0.0036	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.010	0.0036	SW846 6010C	1	01/09/2025 09:23	MSY	E
Zinc, Dissolved	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Zinc, Total	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/09/2025 09:23	MSY	E

Results

Client Sample ID	MW-8S	Collected	12/12/2024 14:30
Lab Sample ID	3392161010	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 20:28	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 20:28	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 20:28	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:28	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 20:28	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Acenaphthylene	0.41J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 20:28	CGS	D
Anthracene	0.76J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 20:28	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 20:28	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 20:28	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 20:28	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 20:28	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:28	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 20:28	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 20:28	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D

Results

Client Sample ID	MW-8S	Collected	12/12/2024 14:30
Lab Sample ID	3392161010	Lab Receipt	12/13/2024 08:54

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 20:28	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 20:28	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 20:28	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 20:28	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 20:28	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 20:28	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 20:28	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
Naphthalene	1.0J	J	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 20:28	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 20:28	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 20:28	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 20:28	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	53.3%	23 – 131	12/20/2024 20:28	
2-Fluorobiphenyl	321-60-8	70.4%	24 – 116	12/20/2024 20:28	
2-Fluorophenol	367-12-4	28.4%	10 – 85	12/20/2024 20:28	
Nitrobenzene-d5	4165-60-0	80.1%	32 – 125	12/20/2024 20:28	
Phenol-d5	4165-62-2	29.2%	7 – 56	12/20/2024 20:28	
Terphenyl-d14	98904-43-9	37*%	41 – 145	12/20/2024 20:28	19

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	10.0	4.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	10.0	3.0	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	10.0	4.1	SW846 8260D	5	12/20/2024 03:29	PDK	A

Results

Client Sample ID	MW-8S	Collected	12/12/2024 14:30
Lab Sample ID	3392161010	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	35.0	7.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	5.0	1.9	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	5.0	1.0	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/20/2024 03:29	PDK	A
2-Butanone	ND	ND	ug/L	50.0	9.0	SW846 8260D	5	12/20/2024 03:29	PDK	A
2-Hexanone	ND	ND	ug/L	25.0	6.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	25.0	7.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
Acetone	ND	ND	ug/L	50.0	15.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
Benzene	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/20/2024 03:29	PDK	A
Bromochloromethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
Bromodichloromethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/20/2024 03:29	PDK	A
Bromoform	ND	ND	ug/L	5.0	2.0	SW846 8260D	5	12/20/2024 03:29	PDK	A
Bromomethane	ND	ND,1	ug/L	5.0	2.0	SW846 8260D	5	12/20/2024 03:29	PDK	A
Carbon Disulfide	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/20/2024 03:29	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
Chlorobenzene	ND	ND	ug/L	5.0	0.95	SW846 8260D	5	12/20/2024 03:29	PDK	A
Chlorodibromomethane	ND	ND	ug/L	5.0	2.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
Chloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
Chloroform	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/20/2024 03:29	PDK	A
Chloromethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
Cyclohexane	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
Ethylbenzene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
Freon 113	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
Isopropylbenzene	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/20/2024 03:29	PDK	A
Methyl acetate	ND	ND	ug/L	10.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
Methyl cyclohexane	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
Methylene Chloride	ND	ND	ug/L	5.0	2.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
mp-Xylene	ND	ND	ug/L	10.0	2.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
o-Xylene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
Styrene	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/20/2024 03:29	PDK	A
Tetrachloroethene	ND	ND	ug/L	5.0	1.8	SW846 8260D	5	12/20/2024 03:29	PDK	A
Toluene	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/20/2024 03:29	PDK	A
Total Xylenes	ND	ND	ug/L	15.0	3.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
Trichloroethene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/20/2024 03:29	PDK	A
Vinyl Chloride	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/20/2024 03:29	PDK	A

Results

Client Sample ID	MW-8S	Collected	12/12/2024 14:30
Lab Sample ID	3392161010	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/20/2024 03:29	
4-Bromofluorobenzene	460-00-4	93.9%	79 – 114	12/20/2024 03:29	
Dibromofluoromethane	1868-53-7	95.1%	78 – 116	12/20/2024 03:29	
Toluene-d8	2037-26-5	95.8%	76 – 127	12/20/2024 03:29	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	29	3	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	326	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 18:34	JXK	I
Chloride	3.1J	J	mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 23:27	J1W	I
Nitrate-N	18.5		mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 23:27	J1W	I
pH	8.30	5	pH_Units			S4500HB-11	1	12/19/2024 13:34	KMV	I
Specific Conductance	1300		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	316		mg/L	5.0	3.5	SW846 9056A	5	12/13/2024 23:27	J1W	I
Total Dissolved Solids	992		mg/L	25	25	SM2540C-15	1	12/13/2024 16:45	RAG	I
Turbidity	2.0		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-8D	Collected	12/12/2024 15:45
Lab Sample ID	3392161011	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:24	MSY	E
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:24	MSY	E
Arsenic, Dissolved	0.013		mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Arsenic, Total	0.014		mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:24	MSY	E
Barium, Dissolved	0.056		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Barium, Total	0.051		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:24	MSY	E
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:24	MSY	E
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:24	MSY	E
Calcium, Dissolved	193		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Calcium, Total	194		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:24	MSY	E
Chromium, Dissolved	0.0022J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:24	MSY	E
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:24	MSY	E
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:24	MSY	E
Iron, Dissolved	0.62		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Iron, Total	1.4		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:24	MSY	E
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:24	MSY	E
Magnesium, Dissolved	82.0		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Magnesium, Total	81.5		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:24	MSY	E
Manganese, Dissolved	0.26		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Manganese, Total	0.26		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:24	MSY	E
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:36	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:09	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:24	MSY	E
Potassium, Dissolved	6.0		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Potassium, Total	5.6		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:24	MSY	E
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:24	MSY	E
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:24	MSY	E
Sodium, Dissolved	70.0		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Sodium, Total	54.2		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:24	MSY	E
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:24	MSY	E
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:24	MSY	E
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:24	MSY	E

Results

Client Sample ID	MW-8D	Collected	12/12/2024 15:45
Lab Sample ID	3392161011	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,4-Dimethylphenol	60.3		ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 21:18	CGS	D
2-Methylnaphthalene	6.0		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 21:18	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 21:18	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 21:18	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 21:18	CGS	D
Acenaphthene	7.4		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Acenaphthylene	5.7		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 21:18	CGS	D
Anthracene	1.1J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 21:18	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 21:18	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 21:18	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 21:18	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 21:18	CGS	D
Biphenyl	3.0J	J	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 21:18	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 21:18	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 21:18	CGS	D
Carbazole	104		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D

Results

Client Sample ID	MW-8D	Collected	12/12/2024 15:45
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 21:18	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 21:18	CGS	D
Dibenzofuran	12.0		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 21:18	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Fluoranthene	1.6		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Fluorene	10.2		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 21:18	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 21:18	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 21:18	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 21:18	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
Naphthalene	264		ug/L	6.0	2.6	SW846 8270E	4	12/24/2024 07:31	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 21:18	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 21:18	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 21:18	CGS	D
Phenanthrene	4.5		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Phenol	2.9J	J	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
Pyrene	0.71J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	65.8%	23 – 131	12/20/2024 21:18	
2,4,6-Tribromophenol	118-79-6	65.6%	23 – 131	12/24/2024 07:31	
2-Fluorobiphenyl	321-60-8	85.8%	24 – 116	12/20/2024 21:18	
2-Fluorobiphenyl	321-60-8	92.4%	24 – 116	12/24/2024 07:31	
2-Fluorophenol	367-12-4	32.1%	10 – 85	12/20/2024 21:18	
2-Fluorophenol	367-12-4	33.8%	10 – 85	12/24/2024 07:31	
Nitrobenzene-d5	4165-60-0	112%	32 – 125	12/20/2024 21:18	
Nitrobenzene-d5	4165-60-0	116%	32 – 125	12/24/2024 07:31	
Phenol-d5	4165-62-2	36.1%	7 – 56	12/20/2024 21:18	
Phenol-d5	4165-62-2	37.4%	7 – 56	12/24/2024 07:31	
Terphenyl-d14	98904-43-9	42.1%	41 – 145	12/20/2024 21:18	
Terphenyl-d14	98904-43-9	46%	41 – 145	12/24/2024 07:31	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	20.0	4.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	20.0	6.8	SW846 8260D	20	12/20/2024 04:09	PDK	A

Results

Client Sample ID	MW-8D	Collected	12/12/2024 15:45
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	20.0	5.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	20.0	5.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	40.0	18.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	40.0	12.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	40.0	16.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2,4-Trimethylbenzene	87.7		ug/L	20.0	5.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	140	30.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	20.0	5.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	20.0	7.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	20.0	6.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	20.0	4.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,3,5-Trimethylbenzene	7.0J	J	ug/L	20.0	4.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	20.0	5.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	20.0	5.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
2-Butanone	ND	ND	ug/L	200	36.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
2-Hexanone	ND	ND	ug/L	100	26.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	100	30.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
Acetone	ND	ND	ug/L	200	62.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
Benzene	750		ug/L	20.0	4.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Bromochloromethane	ND	ND	ug/L	20.0	6.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
Bromodichloromethane	ND	ND	ug/L	20.0	5.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
Bromoform	ND	ND	ug/L	20.0	8.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
Bromomethane	ND	ND,1	ug/L	20.0	7.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Carbon Disulfide	ND	ND	ug/L	20.0	4.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	20.0	6.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
Chlorobenzene	ND	ND	ug/L	20.0	3.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Chlorodibromomethane	ND	ND	ug/L	20.0	9.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
Chloroethane	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Chloroform	ND	ND	ug/L	20.0	4.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
Chloromethane	ND	ND	ug/L	20.0	6.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	20.0	6.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	20.0	6.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
Cyclohexane	ND	ND	ug/L	20.0	5.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Ethylbenzene	94.7		ug/L	20.0	6.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Freon 113	ND	ND	ug/L	20.0	5.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
Isopropylbenzene	6.9J	J	ug/L	20.0	4.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
Methyl acetate	ND	ND	ug/L	40.0	6.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
Methyl cyclohexane	ND	ND	ug/L	20.0	6.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Methylene Chloride	ND	ND	ug/L	20.0	9.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
mp-Xylene	20.1J	J	ug/L	40.0	10.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
o-Xylene	14.4J	J	ug/L	20.0	6.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Styrene	ND	ND	ug/L	20.0	4.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Tetrachloroethene	ND	ND	ug/L	20.0	7.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
Toluene	37.6		ug/L	20.0	4.6	SW846 8260D	20	12/20/2024 04:09	PDK	A

Results

Client Sample ID	MW-8D	Collected	12/12/2024 15:45
Lab Sample ID	3392161011	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	34.5J	J	ug/L	60.0	13.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	20.0	5.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	20.0	5.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Trichloroethene	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	20.0	4.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Vinyl Chloride	ND	ND	ug/L	20.0	6.0	SW846 8260D	20	12/20/2024 04:09	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99%	62 – 133	12/20/2024 04:09	
4-Bromofluorobenzene	460-00-4	95.3%	79 – 114	12/20/2024 04:09	
Dibromofluoromethane	1868-53-7	94%	78 – 116	12/20/2024 04:09	
Toluene-d8	2037-26-5	96.2%	76 – 127	12/20/2024 04:09	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	24	3	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	489	4	mg/L	50	50	SM2320B-2011	10	12/26/2024 18:44	JXK	I
Chloride	96.2		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 23:39	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 23:39	J1W	I
pH	8.35	5	pH_Units			S4500HB-11	1	12/19/2024 13:51	KMV	I
Specific Conductance	1950		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	527		mg/L	10.0	7.0	SW846 9056A	10	12/18/2024 00:40	J1W	I
Total Dissolved Solids	1180		mg/L	25	25	SM2540C-15	1	12/13/2024 16:45	RAG	I
Turbidity	40		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	Trip Blank	Collected	12/12/2024 15:45
Lab Sample ID	3392161012	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 00:46	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 00:46	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 00:46	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 00:46	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 00:46	PDK	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 00:46	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 00:46	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 00:46	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 00:46	PDK	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 00:46	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 00:46	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 00:46	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 00:46	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 00:46	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 00:46	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 00:46	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 00:46	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 00:46	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 00:46	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 00:46	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 00:46	PDK	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 00:46	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 00:46	PDK	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 00:46	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 00:46	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 00:46	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 00:46	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 00:46	PDK	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 00:46	PDK	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 00:46	PDK	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 00:46	PDK	A

Results

Client Sample ID	Trip Blank	Collected	12/12/2024 15:45
Lab Sample ID	3392161012	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 00:46	PDK	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 00:46	PDK	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 00:46	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 00:46	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 00:46	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 00:46	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 00:46	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 00:46	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/20/2024 00:46	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	12/20/2024 00:46	
Dibromofluoromethane	1868-53-7	94.4%	78 – 116	12/20/2024 00:46	
Toluene-d8	2037-26-5	98.9%	76 – 127	12/20/2024 00:46	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392161001	MW-33	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392161002	MW-32	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392161003	MW-19S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392161004	MW-19D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392161005	MW-11S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392161006	MW-11D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392161007	MW-11D-Dup	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392161008	MW-31	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392161009	MW-29	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392161010	MW-8S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392161011	MW-8D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392161012	Trip Blank	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1356007	Prep Method	SW846 3015A
Date	12/16/2024 08:48	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392161007	3392161008	3392161001	3392161002
3392161003	3392161004	3392161005	3392161006

Method Blank 3918335 (MB) Created on 12/16/2024 01:34 For QC Batch 1356007

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	0.024J	mg/L	0.067	J
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	0.014J	mg/L	0.022	J
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3918336 (LCS) Created on 12/16/2024 01:34 For QC Batch 1356007

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.1		1.10	101	80 - 120		
Antimony, Total	7440-36-0	LCS	0.23		0.22	105	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	105	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	104	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.23		0.22	104	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.11		0.11	103	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	96.6	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	104	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	106	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	101	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Iron, Total	7439-89-6	LCS	1.2		1.10	105	80 - 120		
Lead, Total	7439-92-1	LCS	0.11		0.11	103	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	104	80 - 120		
Manganese, Total	7439-96-5	LCS	0.11		0.11	99.5	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	105	80 - 120		
Potassium, Total	7440-09-7	LCS	22		22.20	98.9	80 - 120		
Selenium, Total	7782-49-2	LCS	1.1		1.10	102	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	106	80 - 120		
Sodium, Total	7440-23-5	LCS	22.6		22.20	102	80 - 120		
Thallium, Total	7440-28-0	LCS	0.11		0.11	99.1	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.058		0.0560	105	80 - 120		
Zinc, Total	7440-66-6	LCS	0.57		0.56	103	80 - 120		

QC Batch

QC Batch	1356008	Prep Method	SW846 3015A
Date	12/16/2024 10:12	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392161009 3392161010 3392161011

Matrix Spike 3918341 (MS) 3392003002 (non-Project Sample) For QC Batch 1356008

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918342 (MSD) 3392003002 (non-Project Sample) For QC Batch 1356008

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	MS	1.2	0.0012	1.10	105	75 - 125		
Aluminum, Total	7429-90-5	MSD	1.1	0.0012	1.10	103	75 - 125	RPD 1.71 (Max-20)	
Antimony, Total	7440-36-0	MS	0.14	0	0.22	61.7*	75 - 125		
Antimony, Total	7440-36-0	MSD	0.14	0	0.22	61.4*	75 - 125	RPD 0.41 (Max-20)	
Arsenic, Total	7440-38-2	MS	0.12	0.0081	0.11	104	75 - 125		
Arsenic, Total	7440-38-2	MSD	0.12	0.0081	0.11	105	75 - 125	RPD 0.99 (Max-20)	
Barium, Total	7440-39-3	MS	1.2	0.0260	1.10	105	75 - 125		
Barium, Total	7440-39-3	MSD	1.2	0.0260	1.10	103	75 - 125	RPD 1.52 (Max-20)	
Beryllium, Total	7440-41-7	MS	0.24	0	0.22	107	75 - 125		
Beryllium, Total	7440-41-7	MSD	0.23	0	0.22	105	75 - 125	RPD 1.65 (Max-20)	
Cadmium, Total	7440-43-9	MS	0.11	0	0.11	103	75 - 125		
Cadmium, Total	7440-43-9	MSD	0.11	0	0.11	102	75 - 125	RPD 1.56 (Max-20)	
Calcium, Total	7440-70-2	MS	124	124	1.10	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	124	124	1.10	NC	75 - 125	RPD 0.25 (Max-20)	
Chromium, Total	7440-47-3	MS	0.12	0.0010	0.11	105	75 - 125		
Chromium, Total	7440-47-3	MSD	0.11	0.0010	0.11	103	75 - 125	RPD 2.01 (Max-20)	
Cobalt, Total	7440-48-4	MS	1.1	0	1.10	101	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cobalt, Total	7440-48-4	MSD	1.1	0	1.10	101	75 - 125	RPD 0.59 (Max-20)	
Copper, Total	7440-50-8	MS	1.1	0.0010	1.10	102	75 - 125		
Copper, Total	7440-50-8	MSD	1.1	0.0010	1.10	101	75 - 125	RPD 0.57 (Max-20)	
Iron, Total	7439-89-6	MS	1.2	0.0590	1.10	100	75 - 125		
Iron, Total	7439-89-6	MSD	1.2	0.0590	1.10	101	75 - 125	RPD 0.76 (Max-20)	
Lead, Total	7439-92-1	MS	0.12	0	0.11	105	75 - 125		
Lead, Total	7439-92-1	MSD	0.11	0	0.11	101	75 - 125	RPD 4.27 (Max-20)	
Magnesium, Total	7439-95-4	MS	47.8	46.90	1.10	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	48	46.90	1.10	NC	75 - 125	RPD 0.41 (Max-20)	
Manganese, Total	7439-96-5	MS	0.48	0.36	0.11	105	75 - 125		
Manganese, Total	7439-96-5	MSD	0.47	0.36	0.11	103	75 - 125	RPD 0.47 (Max-20)	
Nickel, Total	7440-02-0	MS	1.1	0	1.10	100	75 - 125		
Nickel, Total	7440-02-0	MSD	1.1	0	1.10	99.3	75 - 125	RPD 0.63 (Max-20)	
Potassium, Total	7440-09-7	MS	39.5	14.60	22.20	112	75 - 125		
Potassium, Total	7440-09-7	MSD	37.3	14.60	22.20	102	75 - 125	RPD 5.69 (Max-20)	
Selenium, Total	7782-49-2	MS	1.2	0	1.10	105	75 - 125		
Selenium, Total	7782-49-2	MSD	1.2	0	1.10	104	75 - 125	RPD 0.67 (Max-20)	
Silver, Total	7440-22-4	MS	0.12	0	0.11	107	75 - 125		
Silver, Total	7440-22-4	MSD	0.12	0	0.11	107	75 - 125	RPD 0.09 (Max-20)	
Sodium, Total	7440-23-5	MS	47.3	22.40	22.20	112	75 - 125		
Sodium, Total	7440-23-5	MSD	45.3	22.40	22.20	103	75 - 125	RPD 4.35 (Max-20)	
Thallium, Total	7440-28-0	MS	0.11	0	0.11	101	75 - 125		
Thallium, Total	7440-28-0	MSD	0.11	0	0.11	99.7	75 - 125	RPD 1.10 (Max-20)	
Vanadium, Total	7440-62-2	MS	0.056	0	0.0560	101	75 - 125		
Vanadium, Total	7440-62-2	MSD	0.055	0	0.0560	99.2	75 - 125	RPD 1.60 (Max-20)	
Zinc, Total	7440-66-6	MS	0.55	0	0.56	98.3	75 - 125		
Zinc, Total	7440-66-6	MSD	0.54	0	0.56	97.9	75 - 125	RPD 0.43 (Max-20)	

Method Blank 3918339 (MB) Created on 12/16/2024 01:37 For QC Batch 1356008

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	0.0036J	mg/L	0.0056	J
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	0.030J	mg/L	0.067	J
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3918340 (LCS) Created on 12/16/2024 01:37 For QC Batch 1356008

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	105	80 - 120		
Antimony, Total	7440-36-0	LCS	0.19		0.22	83.6	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	106	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	109	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	109	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	108	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	97.2	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	108	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	107	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	101	80 - 120		
Iron, Total	7439-89-6	LCS	1.2		1.10	106	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	109	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	111	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	111	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	106	80 - 120		
Potassium, Total	7440-09-7	LCS	23.3		22.20	105	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	106	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	106	80 - 120		
Sodium, Total	7440-23-5	LCS	23.7		22.20	107	80 - 120		
Thallium, Total	7440-28-0	LCS	0.11		0.11	96.1	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.057		0.0560	103	80 - 120		
Zinc, Total	7440-66-6	LCS	0.59		0.56	106	80 - 120		

QC Batch

QC Batch	1356411	Prep Method	SW846 7470A
Date	12/17/2024 07:40	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392161009 3392161001

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3919116 (MS) 3392171007 (non-Project Sample) For QC Batch 1356411

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919117 (MSD) 3392171007 (non-Project Sample) For QC Batch 1356411

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0038	0.000029	0.0050	75.2	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0038	0.000029	0.0050	76	70 - 130	RPD 1.05 (Max-20)	

Matrix Spike 3919118 (MS) 3391510001 (non-Project Sample) For QC Batch 1356411

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919119 (MSD) 3391510001 (non-Project Sample) For QC Batch 1356411

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0046	0.000090	0.0050	91	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0046	0.000090	0.0050	90.6	70 - 130	RPD 0.43 (Max-20)	

Method Blank 3919114 (MB) Created on 12/17/2024 06:54 For QC Batch 1356411

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3919115 (LCS) Created on 12/17/2024 06:54 For QC Batch 1356411

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0019		0.0020	96.5	85 - 115		

QC Batch

QC Batch	1356412	Prep Method	SW846 7470A
Date	12/17/2024 07:40	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392161006 3392161011 3392161003

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3919124 (MS) 3391836002 (non-Project Sample) For QC Batch 1356412

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919125 (MSD) 3391836002 (non-Project Sample) For QC Batch 1356412

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0048	0.000027	0.0050	95.3	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0048	0.000027	0.0050	95.9	70 - 130	RPD 0.62 (Max-20)	

Method Blank 3919120 (MB) Created on 12/17/2024 06:57 For QC Batch 1356412

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3919121 (LCS) Created on 12/17/2024 06:57 For QC Batch 1356412

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0017		0.0020	86.5	85 - 115		

QC Batch

QC Batch	1356801	Prep Method	SW846 7470A
Date	12/18/2024 07:29	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392161006	3392161007	3392161008	3392161010
3392161011	3392161002	3392161003	3392161004
3392161005			

Matrix Spike 3919761 (MS) 3392316002 (non-Project Sample) For QC Batch 1356801

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919762 (MSD) 3392316002 (non-Project Sample) For QC Batch 1356801

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0052	0.000013	0.0050	103	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0.000013	0.0050	96.1	70 - 130	RPD 7.01 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Method Blank 3919757 (MB) Created on 12/18/2024 07:09 For QC Batch 1356801

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3919758 (LCS) Created on 12/18/2024 07:09 For QC Batch 1356801

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.002		0.0020	97.5	85 - 115		

Matrix Spike 3919759 (MS) 3392161003 For QC Batch 1356801

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919760 (MSD) 3392161003 For QC Batch 1356801

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0052	0	0.0050	103	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0	0.0050	96	70 - 130	RPD 7.23 (Max-20)	

QC Batch

QC Batch	1356803	Prep Method	SW846 7470A
Date	12/18/2024 07:29	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392161007	3392161008	3392161009	3392161010
3392161001	3392161002	3392161004	3392161005

Matrix Spike 3919770 (MS) 3392207005 (non-Project Sample) For QC Batch 1356803

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919771 (MSD) 3392207005 (non-Project Sample) For QC Batch 1356803

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.003	0.000003	0.0050	60.3*	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0029	0.000003	0.0050	57.5*	70 - 130	RPD 4.75 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Method Blank 3919766 (MB) Created on 12/18/2024 07:12 For QC Batch 1356803

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3919767 (LCS) Created on 12/18/2024 07:12 For QC Batch 1356803

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0019		0.0020	97	85 - 115		

Matrix Spike 3919768 (MS) 3392161007 For QC Batch 1356803

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919769 (MSD) 3392161007 For QC Batch 1356803

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0045	0	0.0050	89.4	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0046	0	0.0050	92.6	70 - 130	RPD 3.52 (Max-20)	

QC Batch

QC Batch	1363881	Prep Method	SW846 3015A
Date	01/03/2025 05:05	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161010	3392161001	3392161011	3392161002
3392161003	3392161004	3392161005	

Matrix Spike 3925461 (MS) 3391836012 (non-Project Sample) For QC Batch 1363881

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3925462 (MSD) 3391836012 (non-Project Sample) For QC Batch 1363881

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.1	0	1.10	102	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.1	0	1.10	103	75 - 125	RPD 0.89 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.24	0.0059	0.22	106	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.25	0.0059	0.22	108	75 - 125	RPD 1.28 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0	0.11	106	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.12	0	0.11	111	75 - 125	RPD 4.15 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0480	1.10	101	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.2	0.0480	1.10	102	75 - 125	RPD 0.77 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.23	0	0.22	102	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.23	0	0.22	103	75 - 125	RPD 0.73 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000110	0.11	98.6	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000110	0.11	99.6	75 - 125	RPD 1.01 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	341	341	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	343	341	1.10	NC	75 - 125	RPD 0.54 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.11	0.0024	0.11	101	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0024	0.11	101	75 - 125	RPD 0.19 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	100	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	102	75 - 125	RPD 1.60 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.1	0.0039	1.10	102	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0039	1.10	104	75 - 125	RPD 1.99 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	14.3	13.10	1.10	NC	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	14.4	13.10	1.10	NC	75 - 125	RPD 1.11 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.11	0	0.11	96.2	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.1	0	0.11	93.1	75 - 125	RPD 3.28 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	46.5	45.70	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	46.8	45.70	1.10	NC	75 - 125	RPD 0.64 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.94	0.81	0.11	NC	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.93	0.81	0.11	NC	75 - 125	RPD 0.29 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0	1.10	99.2	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0	1.10	101	75 - 125	RPD 1.81 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	39	16.10	22.20	103	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	39	16.10	22.20	103	75 - 125	RPD 0.18 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.2	0.0024	1.10	107	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.2	0.0024	1.10	107	75 - 125	RPD 0.17 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	108	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	109	75 - 125	RPD 1.11 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	101	78.10	22.20	102	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	101	78.10	22.20	103	75 - 125	RPD 0.18 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.097	0	0.11	87.1	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.1	0	0.11	94.5	75 - 125	RPD 8.15 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.052	0	0.0560	93	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.053	0	0.0560	94.6	75 - 125	RPD 1.71 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.54	0	0.56	97.1	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.55	0	0.56	98.3	75 - 125	RPD 1.21 (Max-20)	

Method Blank 3925459 (MB) Created on 01/03/2025 00:19 For QC Batch 1363881

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3925460 (LCS) Created on 01/03/2025 00:19 For QC Batch 1363881

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.1		1.10	102	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.24		0.22	106	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.11		0.11	98.3	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	105	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.23		0.22	106	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	105	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.1		1.10	98.6	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	106	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	108	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	103	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	105	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	104	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	105	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	116	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	107	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	22.6		22.20	102	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	107	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.2		22.20	104	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	98.4	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Vanadium, Dissolved	7440-62-2_D	LCS	0.055		0.0560	99.2	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.6		0.56	108	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1357307	Prep Method	SW846 3510C
Date	12/19/2024 08:40	Analysis Method	SW846 8270E
Tech.	DEC		

Associated Samples

3392161007	3392161008	3392161009	3392161010
3392161001	3392161011	3392161002	3392161003
3392161004	3392161005	3392161006	

Matrix Spike 3920477 (MS) 3392508003 (non-Project Sample) For QC Batch 1357307

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920478 (MSD) 3392508003 (non-Project Sample) For QC Batch 1357307

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2,4,5-Trichlorophenol	95-95-4	MS	454	0	500	90.9	44 - 148		
2,4,5-Trichlorophenol	95-95-4	MSD	373	0	500	74.7	44 - 148	RPD 19.60 (Max-23)	
2,4,6-Trichlorophenol	88-06-2	MS	459	0	500	91.9	41 - 148		
2,4,6-Trichlorophenol	88-06-2	MSD	407	0	500	81.3	41 - 148	RPD 12.20 (Max-23)	
2,4-Dinitrotoluene	121-14-2	MS	213	0	250	85.1	49 - 138		
2,4-Dinitrotoluene	121-14-2	MSD	234	0	250	93.6	49 - 138	RPD 9.51 (Max-22)	
Hexachlorobenzene	118-74-1	MS	159	0	250	63.8	59 - 109		
Hexachlorobenzene	118-74-1	MSD	155	0	250	61.9	59 - 109	RPD 3.02 (Max-21)	
Hexachlorobutadiene	87-68-3	MS	115	0	250	46	5 - 126		
Hexachlorobutadiene	87-68-3	MSD	114	0	250	45.6	5 - 126	RPD 0.93 (Max-30)	
Hexachloroethane	67-72-1	MS	118	0	250	47.4	5 - 111		
Hexachloroethane	67-72-1	MSD	130	0	250	51.8	5 - 111	RPD 8.91 (Max-30)	
mp-Cresol	108394/106445	MS	277	0	500	55.3	28 - 128		
mp-Cresol	108394/106445	MSD	290	0	500	57.9	28 - 128	RPD 4.56 (Max-20)	
Naphthalene	91-20-3	MS	163	0	250	65.2	21 - 123		
Naphthalene	91-20-3	MSD	176	0	250	70.2	21 - 123	RPD 7.46 (Max-30)	
Nitrobenzene	98-95-3	MS	194	0	250	77.8	41 - 128		
Nitrobenzene	98-95-3	MSD	210	0	250	83.9	41 - 128	RPD 7.52 (Max-19)	
o-Cresol	95-48-7	MS	133	0	500	26.6*	34 - 136		
o-Cresol	95-48-7	MSD	148	0	500	29.6*	34 - 136	RPD 10.60 (Max-23)	
Pentachlorophenol	87-86-5	MS	385	0	500	77	41 - 149		
Pentachlorophenol	87-86-5	MSD	348	0	500	69.7	41 - 149	RPD 10 (Max-28)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	493	500	98.7	23 - 131	
2,4,6-Tribromophenol	118-79-6	MSD	492	500	98.4	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	160	250	63.9	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	168	250	67.2	24 - 116	
2-Fluorophenol	367-12-4	MS	278	500	55.7	10 - 85	
2-Fluorophenol	367-12-4	MSD	276	500	55.1	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	214	250	85.6	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	243	250	97.2	32 - 125	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Phenol-d5	4165-62-2	MS	219	500	43.7	7 - 56	
Phenol-d5	4165-62-2	MSD	246	500	49.3	7 - 56	
Terphenyl-d14	98904-43-9	MS	108	250	43	41 - 145	
Terphenyl-d14	98904-43-9	MSD	73.5	250	29.4*	41 - 145	

Method Blank 3920475 (MB) Created on 12/19/2024 06:50 For QC Batch 1357307

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	65.1	100	65.1	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	31.8	50	63.6	24 - 116	
2-Fluorophenol	367-12-4	BLK	38.7	100	38.7	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	38.4	50	76.7	32 - 125	
Phenol-d5	4165-62-2	BLK	33.4	100	33.4	7 - 56	
Terphenyl-d14	98904-43-9	BLK	36	50	72	41 - 145	

Lab Control Standard 3920476 (LCS) Created on 12/19/2024 06:50 For QC Batch 1357307

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	25.1		50	50.1	18 - 124		
1,4-Dioxane	123-91-1	LCS	24.7		50	49.4	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	85.1		100	85.1	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	87.9		100	87.9	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	83.7		100	83.7	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	79.1		100	79.1	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	101		100	101	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	80.5		100	80.5	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	46.3		50	92.6	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	50		50	100	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	31.5		50	63.1	27 - 125		
2-Chlorophenol	95-57-8	LCS	74.9		100	74.9	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	86.4		100	86.4	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	29.2		50	58.5	22 - 124		
2-Nitroaniline	88-74-4	LCS	46.2		50	92.5	55 - 138		
2-Nitrophenol	88-75-5	LCS	66.5		100	66.5	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	51		100	51	38 - 115		
3-Nitroaniline	99-09-2	LCS	43.5		50	87.1	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	38.6		50	77.3	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	88		100	88	46 - 144		
4-Chloroaniline	106-47-8	LCS	29.6		50	59.2	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	36.6		50	73.3	38 - 128		
4-Nitroaniline	100-01-6	LCS	48.8		50	97.7	53 - 124		
4-Nitrophenol	100-02-7	LCS	56		100	56	5 - 108		
Acenaphthene	83-32-9	LCS	36.9		50	73.9	36 - 130		
Acenaphthylene	208-96-8	LCS	33.9		50	67.7	39 - 130		
Acetophenone	98-86-2	LCS	38.9		50	77.8	49 - 117		
Anthracene	120-12-7	LCS	46.9		50	93.9	48 - 133		
Atrazine	1912-24-9	LCS	52.3		50	105	44 - 149		
Benzaldehyde	100-52-7	LCS	43		50	86.1	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	46.5		50	93.1	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	48.5		50	97	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	47.6		50	95.3	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	52.9		50	106	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	47.9		50	95.7	52 - 130		
Biphenyl	92-52-4	LCS	31.8		50	63.6	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	44.9		50	89.8	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	40.8		50	81.6	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	37.7		50	75.3	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	43.5		50	86.9	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	45.6		50	91.2	50 - 137		
Caprolactam	105-60-2	LCS	18.2		50	36.4	5 - 118		
Carbazole	86-74-8	LCS	48.9		50	97.7	52 - 139		
Chrysene	218-01-9	LCS	49		50	98.1	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	50		50	100	56 - 130		
Dibenzofuran	132-64-9	LCS	37.5		50	75	39 - 133		
Diethylphthalate	84-66-2	LCS	46.9		50	93.9	45 - 132		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dimethylphthalate	131-11-3	LCS	45.1		50	90.2	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	49.3		50	98.6	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	45.1		50	90.2	35 - 141		
Fluoranthene	206-44-0	LCS	48.4		50	96.8	49 - 132		
Fluorene	86-73-7	LCS	40.3		50	80.6	42 - 131		
Hexachlorobenzene	118-74-1	LCS	41.8		50	83.5	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	22.1		50	44.1	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	12.6		50	25.1	5 - 97		
Hexachloroethane	67-72-1	LCS	20.8		50	41.7	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	48		50	96.1	55 - 126		
Isophorone	78-59-1	LCS	38.3		50	76.6	45 - 129		
mp-Cresol	108394/106445	LCS	78.4		100	78.4	28 - 128		
Naphthalene	91-20-3	LCS	29.5		50	59	21 - 123		
Nitrobenzene	98-95-3	LCS	40.1		50	80.3	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	43.6		50	87.1	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	55		50	110	58 - 125		
o-Cresol	95-48-7	LCS	78.2		100	78.2	34 - 136		
Pentachlorophenol	87-86-5	LCS	88.6		100	88.6	41 - 149		
Phenanthrene	85-01-8	LCS	44.8		50	89.5	46 - 131		
Phenol	108-95-2	LCS	45.5		100	45.5	5 - 111		
Pyrene	129-00-0	LCS	44.2		50	88.3	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	94.3	100	94.3	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	42.4	50	84.8	24 - 116	
2-Fluorophenol	367-12-4	LCS	54.8	100	54.8	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	45	50	90	32 - 125	
Phenol-d5	4165-62-2	LCS	44	100	44	7 - 56	
Terphenyl-d14	98904-43-9	LCS	39.2	50	78.3	41 - 145	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1357890	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3392161007	3392161008	3392161009	3392161010
3392161001	3392161011	3392161012	3392161002
3392161003	3392161004	3392161005	3392161006

Method Blank 3921272 (MB) Created on 12/19/2024 23:03 For QC Batch 1357890

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.7	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	28.5	30	95.1	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.3	30	94.3	78 - 116	
Toluene-d8	2037-26-5	BLK	29.1	30	97.1	76 - 127	

Lab Control Standard 3921273 (LCS) Created on 12/19/2024 23:03 For QC Batch 1357890

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	20.4		20	102	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	19.4		20	97.1	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	18.7		20	93.4	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.1		20	95.4	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	20.4		20	102	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	21.1		20	105	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.7		20	108	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	21.5		20	107	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.9		20	105	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.4		20	92	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	19.2		20	96.2	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20		20	100	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	18.4		20	92	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	18.4		20	92.1	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.2		20	106	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.3		20	102	81 - 118		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dichlorobenzene	106-46-7	LCS	20.2		20	101	81 - 116		
2-Butanone	78-93-3	LCS	97.3		100	97.3	50 - 152		
2-Hexanone	591-78-6	LCS	104		100	104	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	102		100	102	71 - 146		
Acetone	67-64-1	LCS	99.6		100	99.6	40 - 151		
Benzene	71-43-2	LCS	19.1		20	95.3	80 - 124		
Bromochloromethane	74-97-5	LCS	18.8		20	93.9	73 - 117		
Bromodichloromethane	75-27-4	LCS	18.8		20	93.9	79 - 126		
Bromoform	75-25-2	LCS	18		20	90	70 - 123		
Bromomethane	74-83-9	LCS	15.2		20	75.8	45 - 148		
Carbon Disulfide	75-15-0	LCS	18.4		20	92.1	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.9		20	99.6	62 - 132		
Chlorobenzene	108-90-7	LCS	19.3		20	96.5	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18.2		20	91.2	77 - 122		
Chloroethane	75-00-3	LCS	10.8		20	53.8	51 - 142		
Chloroform	67-66-3	LCS	17.9		20	89.3	78 - 122		
Chloromethane	74-87-3	LCS	18.4		20	92.2	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	19.5		20	97.6	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.2		20	91.1	81 - 121		
Cyclohexane	110-82-7	LCS	22.4		20	112	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	21.7		20	108	17 - 166		
Ethylbenzene	100-41-4	LCS	20.6		20	103	80 - 124		
Freon 113	76-13-1	LCS	21.8		20	109	50 - 130		
Isopropylbenzene	98-82-8	LCS	23		20	115	73 - 129		
Methyl acetate	79-20-9	LCS	20.3		20	102	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22.7		20	113	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	19.1		20	95.4	69 - 115		
Methylene Chloride	75-09-2	LCS	18.1		20	90.5	76 - 121		
mp-Xylene	108383/106423	LCS	41		40	102	79 - 125		
o-Xylene	95-47-6	LCS	19.7		20	98.6	79 - 124		
Styrene	100-42-5	LCS	20.4		20	102	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.6		20	97.8	72 - 124		
Toluene	108-88-3	LCS	19.8		20	98.8	80 - 125		
Total Xylenes	1330-20-7	LCS	60.7		60	101	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	19.4		20	96.9	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.5		20	97.3	78 - 126		
Trichloroethene	79-01-6	LCS	18.9		20	94.6	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	17.8		20	89	38 - 123		
Vinyl Chloride	75-01-4	LCS	19.3		20	96.3	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.7	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.1	30	97.1	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.2	30	97.4	78 - 116	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Toluene-d8	2037-26-5	LCS	28.9	30	96.4	76 - 127	

Matrix Spike 3921290 (MS) 3392161002 For QC Batch 1357890

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	18.2	0	20	91.1	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	MS	18	0	20	90.2	74 - 135		
1,1,2-Trichloroethane	79-00-5	MS	17.5	0	20	87.6	82 - 126		
1,1-Dichloroethane	75-34-3	MS	18.7	0	20	93.4	78 - 124		
1,1-Dichloroethene	75-35-4	MS	17.4	0	20	87.2	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	MS	17	0	20	85.1	61 - 126		
1,2,3-Trichloropropane	96-18-4	MS	19.6	0	20	98.2	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	MS	18.2	0	20	91.2	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	MS	19.4	0	20	97.2	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	MS	15.3	0	20	76.3	59 - 133		
1,2-Dibromoethane	106-93-4	MS	18	0	20	90.1	80 - 124		
1,2-Dichlorobenzene	95-50-1	MS	18.7	0	20	93.4	82 - 118		
1,2-Dichloroethane	107-06-2	MS	18.2	0	20	90.9	70 - 133		
1,2-Dichloropropane	78-87-5	MS	18.7	0	20	93.5	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	MS	19.5	0	20	97.4	76 - 125		
1,3-Dichlorobenzene	541-73-1	MS	18.8	0	20	94.1	81 - 118		
1,4-Dichlorobenzene	106-46-7	MS	18.7	0	20	93.3	81 - 116		
2-Butanone	78-93-3	MS	87.2	0	100	87.2	50 - 152		
2-Hexanone	591-78-6	MS	90.7	0	100	90.7	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	90.7	0	100	90.7	71 - 146		
Acetone	67-64-1	MS	82.1	0	100	82.1	40 - 151		
Benzene	71-43-2	MS	18.2	0	20	90.9	80 - 124		
Bromochloromethane	74-97-5	MS	18.4	0	20	91.8	73 - 117		
Bromodichloromethane	75-27-4	MS	18.2	0	20	91.2	79 - 126		
Bromoform	75-25-2	MS	16.5	0	20	82.5	70 - 123		
Bromomethane	74-83-9	MS	9.1	0	20	45.3	45 - 148		
Carbon Disulfide	75-15-0	MS	15.5	0	20	77.4	57 - 131		
Carbon Tetrachloride	56-23-5	MS	17.1	0	20	85.3	62 - 132		
Chlorobenzene	108-90-7	MS	18.4	0	20	92.2	85 - 117		
Chlorodibromomethane	124-48-1	MS	17.3	0	20	86.6	77 - 122		
Chloroethane	75-00-3	MS	13	0	20	64.9	51 - 142		
Chloroform	67-66-3	MS	17.4	0	20	87.1	78 - 122		
Chloromethane	74-87-3	MS	15.7	0	20	78.3	38 - 156		
cis-1,2-Dichloroethene	156-59-2	MS	19.2	0	20	96.1	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	MS	16.9	0	20	84.5	81 - 121		
Cyclohexane	110-82-7	MS	17.1	0	20	85.3	66 - 130		
Dichlorodifluoromethane	75-71-8	MS	15	0	20	74.9	17 - 166		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Ethylbenzene	100-41-4	MS	18.4	0	20	92	80 - 124		
Freon 113	76-13-1	MS	14.6	0	20	72.8	50 - 130		
Isopropylbenzene	98-82-8	MS	20.7	0	20	103	73 - 129		
Methyl acetate	79-20-9	MS	15.3	0	20	76.4	70 - 130		
Methyl cyclohexane	108-87-2	MS	15.7	0	20	78.4	70 - 130		
Methyl t-Butyl Ether	1634-04-4	MS	18	0	20	89.9	69 - 115		
Methylene Chloride	75-09-2	MS	17.3	0	20	86.6	76 - 121		
mp-Xylene	108383/106423	MS	37.8	0	40	94.4	79 - 125		
o-Xylene	95-47-6	MS	18.7	0	20	93.6	79 - 124		
Styrene	100-42-5	MS	19.3	0	20	96.3	79 - 123		
Tetrachloroethene	127-18-4	MS	16.1	0	20	80.3	72 - 124		
Toluene	108-88-3	MS	18.5	0	20	92.3	80 - 125		
Total Xylenes	1330-20-7	MS	56.5	0	60	94.1	79 - 125		
trans-1,2-Dichloroethene	156-60-5	MS	18.4	0	20	92.1	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	MS	18.3	0	20	91.7	78 - 126		
Trichloroethene	79-01-6	MS	17.4	0	20	86.9	77 - 124		
Trichlorofluoromethane	75-69-4	MS	13.1	0	20	65.6	38 - 123		
Vinyl Chloride	75-01-4	MS	16.5	0	20	82.7	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	29.7	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	28.6	30	95.5	79 - 114	
Dibromofluoromethane	1868-53-7	MS	28.9	30	96.4	78 - 116	
Toluene-d8	2037-26-5	MS	28.5	30	95.1	76 - 127	

Duplicate 3921291 (DUP) 3392161004 For QC Batch 1357890

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,1,1-Trichloroethane	71-55-6	DUP	0	0	RPD	0	(Max-)	ND
1,1,2,2-Tetrachloroethane	79-34-5	DUP	0	0	RPD	0	(Max-)	ND
1,1,2-Trichloroethane	79-00-5	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethane	75-34-3	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethene	75-35-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichlorobenzene	87-61-6	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichloropropane	96-18-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trichlorobenzene	120-82-1	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trimethylbenzene	95-63-6	DUP	0.5875	0.5989	RPD	1.93	(Max-)	J
1,2-Dibromo-3-chloropropane	96-12-8	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,2-Dibromoethane	106-93-4	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichlorobenzene	95-50-1	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloroethane	107-06-2	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloropropane	78-87-5	DUP	0	0	RPD	0	(Max-)	ND
1,3,5-Trimethylbenzene	108-67-8	DUP	0	0	RPD	0	(Max-)	ND
1,3-Dichlorobenzene	541-73-1	DUP	0	0	RPD	0	(Max-)	ND
1,4-Dichlorobenzene	106-46-7	DUP	0	0	RPD	0	(Max-)	ND
2-Butanone	78-93-3	DUP	0	0	RPD	0	(Max-)	ND
2-Hexanone	591-78-6	DUP	0	0	RPD	0	(Max-)	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	DUP	0	0	RPD	0	(Max-)	ND
Acetone	67-64-1	DUP	0	0	RPD	0	(Max-)	ND
Benzene	71-43-2	DUP	106.76	113.1450	RPD	5.81	(Max-)	
Bromochloromethane	74-97-5	DUP	0	0	RPD	0	(Max-)	ND
Bromodichloromethane	75-27-4	DUP	0	0	RPD	0	(Max-)	ND
Bromoform	75-25-2	DUP	0	0	RPD	0	(Max-)	ND
Bromomethane	74-83-9	DUP	0	0	RPD	0	(Max-)	ND
Carbon Disulfide	75-15-0	DUP	0	0	RPD	0	(Max-)	ND
Carbon Tetrachloride	56-23-5	DUP	0	0	RPD	0	(Max-)	ND
Chlorobenzene	108-90-7	DUP	0	0	RPD	0	(Max-)	ND
Chlorodibromomethane	124-48-1	DUP	0	0	RPD	0	(Max-)	ND
Chloroethane	75-00-3	DUP	0	0	RPD	0	(Max-)	ND
Chloroform	67-66-3	DUP	0	0	RPD	0	(Max-)	ND
Chloromethane	74-87-3	DUP	0	0	RPD	0	(Max-)	ND
cis-1,2-Dichloroethene	156-59-2	DUP	0	0	RPD	0	(Max-)	ND
cis-1,3-Dichloropropene	10061-01-5	DUP	0	0	RPD	0	(Max-)	ND
Cyclohexane	110-82-7	DUP	0	0	RPD	0	(Max-)	ND
Dichlorodifluoromethane	75-71-8	DUP	0	0	RPD	0	(Max-)	ND
Ethylbenzene	100-41-4	DUP	2.8565	2.9028	RPD	1.61	(Max-)	
Freon 113	76-13-1	DUP	0	0	RPD	0	(Max-)	ND
Isopropylbenzene	98-82-8	DUP	0.6720	0.6150	RPD	8.86	(Max-)	J
Methyl acetate	79-20-9	DUP	0	0	RPD	0	(Max-)	ND
Methyl cyclohexane	108-87-2	DUP	0	0	RPD	0	(Max-)	ND
Methyl t-Butyl Ether	1634-04-4	DUP	0	0	RPD	0	(Max-)	ND
Methylene Chloride	75-09-2	DUP	0	0	RPD	0	(Max-)	ND
mp-Xylene	108383/106423	DUP	0.8436	0.8301	RPD	1.61	(Max-)	J
o-Xylene	95-47-6	DUP	0.5848	0.6080	RPD	3.90	(Max-)	J
Styrene	100-42-5	DUP	0	0	RPD	0	(Max-)	ND
Tetrachloroethene	127-18-4	DUP	0	0	RPD	0	(Max-)	ND
Toluene	108-88-3	DUP	0	0	RPD	0	(Max-)	ND
Total Xylenes	1330-20-7	DUP	1.4284	1.4382	RPD	0.68	(Max-)	J
trans-1,2-Dichloroethene	156-60-5	DUP	0	0	RPD	0	(Max-)	ND
trans-1,3-Dichloropropene	10061-02-6	DUP	0	0	RPD	0	(Max-)	ND
Trichloroethene	79-01-6	DUP	0	0	RPD	0	(Max-)	ND
Trichlorofluoromethane	75-69-4	DUP	0	0	RPD	0	(Max-)	ND
Vinyl Chloride	75-01-4	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	DUP	30.2	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	DUP	28.8	30	95.9	79 - 114	
Dibromofluoromethane	1868-53-7	DUP	28.8	30	95.9	78 - 116	
Toluene-d8	2037-26-5	DUP	29.5	30	98.5	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1355098	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161010	3392161011	3392161001	3392161002
3392161003	3392161004	3392161005	

Matrix Spike 3917754 (MS) 3391890011 (non-Project Sample) For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917755 (MSD) 3391890011 (non-Project Sample) For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	11.6	1.90	10	96.9	80 - 120		
Sulfate	SO4	MSD	11.7	1.90	10	97.8	80 - 120	RPD 0.77 (Max-20)	

Matrix Spike 3917758 (MS) 3392018003 (non-Project Sample) For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	2.2	0	2.50	89.7	80 - 120		J

Matrix Spike 3917761 (MS) 3392063001 (non-Project Sample) For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917762 (MSD) 3392063001 (non-Project Sample) For QC Batch 1355098

Matrix Spike 3917765 (MS) 3392084002 (non-Project Sample) For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	22.2	21.70	1	NC	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3918069 (MS) 3392168001 (non-Project Sample) For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike 3918072 (MS) 3392173001 (non-Project Sample) For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918073 (MSD) 3392173001 (non-Project Sample) For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	44.7	31.30	10	134*	80 - 120		
Chloride	Cl	MSD	45.1	31.30	10	138*	80 - 120	RPD 0.85 (Max-20)	
Nitrate-N	NO3	MS	1.9	0.61	1	131*	80 - 120		
Nitrate-N	NO3	MSD	2	0.61	1	135*	80 - 120	RPD 1.96 (Max-20)	
Sulfate	SO4	MS	39.4	26.40	10	130*	80 - 120		
Sulfate	SO4	MSD	39.8	26.40	10	134*	80 - 120	RPD 1.04 (Max-20)	

Method Blank 3917554 (MB) Created on 12/13/2024 06:30 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917555 (LCS) Created on 12/13/2024 06:30 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	49.6		50	99.1	90 - 110		
Nitrate-N	NO3	LCS	4.9		5	98.9	90 - 110		
Sulfate	SO4	LCS	49.3		50	98.7	90 - 110		

Lab Control Standard 3917756 (LCS) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	50.8		50	102	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3917757 (MB) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917759 (LCS) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.4		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.3		50	103	90 - 110		

Method Blank 3917760 (MB) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917763 (LCS) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.7		50	101	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	50.6		50	101	90 - 110		

Method Blank 3917764 (MB) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3917766 (LCS) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.1		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	51		50	102	90 - 110		

Method Blank 3917767 (MB) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3918065 (MS) 3392161002 For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918066 (MSD) 3392161002 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	247	217	25	NC	80 - 120		
Chloride	Cl	MSD	245	217	25	NC	80 - 120	RPD 1.11 (Max-20)	
Nitrate-N	NO3	MS	3.3	0	2.50	134*	80 - 120		
Nitrate-N	NO3	MSD	3.3	0	2.50	133*	80 - 120	RPD 0.45 (Max-20)	
Sulfate	SO4	MS	180	148	25	NC	80 - 120		
Sulfate	SO4	MSD	178	148	25	NC	80 - 120	RPD 1.12 (Max-20)	

Lab Control Standard 3918067 (LCS) Created on 12/13/2024 14:17 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.2		50	104	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3918068 (MB) Created on 12/13/2024 14:17 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918070 (LCS) Created on 12/13/2024 14:17 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.5		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.3		50	105	90 - 110		

Method Blank 3918071 (MB) Created on 12/13/2024 14:17 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918074 (LCS) Created on 12/13/2024 14:17 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.7		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	105	90 - 110		
Sulfate	SO4	LCS	52.5		50	105	90 - 110		

Method Blank 3918075 (MB) Created on 12/13/2024 14:17 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1355290	Prep Method	N/A
Date	N/A	Analysis Method	SM2130B-2011
Tech.			

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161010	3392161011	3392161001	3392161002
3392161003	3392161004	3392161005	

Duplicate 3917983 (DUP) 3391897001 (non-Project Sample) For QC Batch 1355290

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)				Qualifiers
Turbidity	Turb	DUP	14	14	RPD	0	(Max-10)	

Method Blank 3917981 (MB) Created on 12/13/2024 13:00 For QC Batch 1355290

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3917984 (MB) Created on 12/13/2024 13:00 For QC Batch 1355290

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3917986 (DUP) 3392161008 For QC Batch 1355290

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)				Qualifiers
Turbidity	Turb	DUP	120	120	RPD	0	(Max-10)	

Method Blank 3917987 (MB) Created on 12/13/2024 13:00 For QC Batch 1355290

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1356223	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161001	3392161002	3392161003	3392161004
3392161005			

Duplicate 3919482 (DUP) 3392088003 (non-Project Sample) For QC Batch 1356223

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	1246	1226	RPD	1.62 (Max-5)	

Duplicate 3919483 (DUP) 3392092002 (non-Project Sample) For QC Batch 1356223

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	352	358	RPD	1.69 (Max-5)	

Method Blank 3918618 (MB) Created on 12/16/2024 09:01 For QC Batch 1356223

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3918619 (LCS) Created on 12/16/2024 09:01 For QC Batch 1356223

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	499		500	99.8	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1356405	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392161006 3392161007 3392161008 3392161011 3392161004

Matrix Spike 3919384 (MS) 3392434001 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919385 (MSD) 3392434001 (non-Project Sample) For QC Batch 1356405

Matrix Spike 3919388 (MS) 3392379001 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	84.9	75.90	10	NC	80 - 120		
Nitrate-N	NO3	MS	7	6	1	NC	80 - 120		
Sulfate	SO4	MS	34.3	23.40	10	109	80 - 120		

Matrix Spike 3919391 (MS) 3392379002 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919392 (MSD) 3392379002 (non-Project Sample) For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	13.6	2.90	10	107	80 - 120		
Chloride	Cl	MSD	13.6	2.90	10	108	80 - 120	RPD 0.18 (Max-20)	
Nitrate-N	NO3	MS	7.4	6.50	1	NC	80 - 120		
Nitrate-N	NO3	MSD	7.4	6.50	1	NC	80 - 120	RPD 0.04 (Max-20)	
Sulfate	SO4	MS	42.4	32.20	10	102	80 - 120		
Sulfate	SO4	MSD	42.5	32.20	10	104	80 - 120	RPD 0.38 (Max-20)	

Matrix Spike 3919395 (MS) 3392396001 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	16.1	5.10	10	110	80 - 120		
Nitrate-N	NO3	MS	1.4	0.44	1	99.2	80 - 120		

Matrix Spike 3919398 (MS) 3392478003 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919399 (MSD) 3392478003 (non-Project Sample) For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	2.8	1.80	1	108	80 - 120		
Nitrate-N	NO3	MSD	2.8	1.80	1	106	80 - 120	RPD 0.53 (Max-20)	

Matrix Spike 3919402 (MS) 3392497002 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	196	189	10	NC	80 - 120		
Nitrate-N	NO3	MS	5.2	4.10	1	NC	80 - 120		

Matrix Spike 3919522 (MS) 3392316003 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919523 (MSD) 3392316003 (non-Project Sample) For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	170	50.50	100	120	80 - 120		
Chloride	Cl	MSD	169	50.50	100	118	80 - 120	RPD 0.82 (Max-20)	
Nitrate-N	NO3	MS	39.2	27.80	10	114	80 - 120		
Nitrate-N	NO3	MSD	38.5	27.80	10	107	80 - 120	RPD 1.86 (Max-20)	
Sulfate	SO4	MS	1260	1160	100	NC	80 - 120		
Sulfate	SO4	MSD	1230	1160	100	NC	80 - 120	RPD 2 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3919526 (MS) 3392316006 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	66.2	7.50	50	117	80 - 120		
Nitrate-N	NO3	MS	6.7	1.50	5	104	80 - 120		
Sulfate	SO4	MS	925	894	50	NC	80 - 120		

Method Blank 3919094 (MB) Created on 12/17/2024 06:37 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919095 (LCS) Created on 12/17/2024 06:37 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.7		50	101	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	101	90 - 110		
Sulfate	SO4	LCS	50.3		50	101	90 - 110		

Lab Control Standard 3919386 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.2		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.4		50	103	90 - 110		

Method Blank 3919387 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3919389 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3919390 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919393 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

Method Blank 3919394 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919396 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.4		50	105	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3919397 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919400 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.5		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	105	90 - 110		
Sulfate	SO4	LCS	53.1		50	106	90 - 110		

Method Blank 3919401 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919403 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.6		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		
Sulfate	SO4	LCS	52.8		50	106	90 - 110		

Method Blank 3919404 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3919524 (LCS) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.9		50	106	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

Method Blank 3919525 (MB) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919527 (LCS) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.6		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	105	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

Method Blank 3919528 (MB) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1356448	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3392161010 3392161011

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3919484 (DUP) 3392203001 (non-Project Sample) For QC Batch 1356448

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	1762	1720	RPD	2.41 (Max-5)	

Duplicate 3919485 (DUP) 3392207006 (non-Project Sample) For QC Batch 1356448

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	422	406	RPD	3.86 (Max-5)	

Method Blank 3919293 (MB) Created on 12/17/2024 09:13 For QC Batch 1356448

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3919294 (LCS) Created on 12/17/2024 09:13 For QC Batch 1356448

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	498		500	99.6	90 - 110		

QC Batch

QC Batch	1356794	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392161008

Matrix Spike 3920028 (MS) 3392764010 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920029 (MSD) 3392764010 (non-Project Sample) For QC Batch 1356794

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3920032 (MS) 3392595001 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	35.8	25.20	10	106	80 - 120		

Matrix Spike 3920035 (MS) 3392628002 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920036 (MSD) 3392628002 (non-Project Sample) For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	56.8	30.60	25	105	80 - 120		
Sulfate	SO4	MSD	56.9	30.60	25	105	80 - 120	RPD 0.09 (Max-20)	

Matrix Spike 3920039 (MS) 3392641006 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	17	6.40	10	106	80 - 120		

Matrix Spike 3920042 (MS) 3392641016 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920043 (MSD) 3392641016 (non-Project Sample) For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	16.5	5.90	10	106	80 - 120		
Sulfate	SO4	MSD	16.5	5.90	10	106	80 - 120	RPD 0 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3920046 (MS) 3392641026 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	20.4	9.60	10	108	80 - 120		

Matrix Spike 3920049 (MS) 3392711001 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920050 (MSD) 3392711001 (non-Project Sample) For QC Batch 1356794

Matrix Spike 3920053 (MS) 3392754002 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Method Blank 3919702 (MB) Created on 12/18/2024 06:47 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919703 (LCS) Created on 12/18/2024 06:47 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	50.7		50	101	90 - 110		

Lab Control Standard 3920030 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.2		50	102	90 - 110		

Method Blank 3920031 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920033 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.4		50	103	90 - 110		

Method Blank 3920034 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920037 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.4		50	103	90 - 110		

Method Blank 3920038 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920040 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3920041 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920044 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.9		50	104	90 - 110		

Method Blank 3920045 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920047 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	52.2		50	104	90 - 110		

Method Blank 3920048 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920051 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	52.5		50	105	90 - 110		

Method Blank 3920052 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920054 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	52.9		50	106	90 - 110		

Method Blank 3920055 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3920237 (MS) 3392161008 For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920238 (MSD) 3392161008 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	1170	1050	100	NC	80 - 120		
Sulfate	SO4	MSD	1150	1050	100	NC	80 - 120	RPD 1.27 (Max-20)	

Lab Control Standard 3920239 (LCS) Created on 12/18/2024 13:40 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	52.8		50	106	90 - 110		

Method Blank 3920240 (MB) Created on 12/18/2024 13:40 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1356895	Prep Method	N/A
Date	N/A	Analysis Method	S4500HB-11
Tech.			

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161010	3392161011	3392161002	3392161003
3392161004	3392161005		

Duplicate 3920063 (DUP) 3391836012 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920067 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920071 (DUP) 3391890009 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920075 (DUP) 3391971001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP	8.4170	8.4090	RPD 0.10 (Max-10)

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3920079 (DUP) 3392026001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2550	8.2470	RPD	0.10 (Max-10)	

Duplicate 3920083 (DUP) 3392026002 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2130	8.2280	RPD	0.18 (Max-10)	

Duplicate 3920095 (DUP) 3392316001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2050	8.2550	RPD	0.61 (Max-10)	

Duplicate 3920099 (DUP) 3392379005 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.56	8.5150	RPD	0.53 (Max-10)	

Duplicate 3920103 (DUP) 3392402001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920107 (DUP) 3392412001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920087 (DUP) 3392161001 For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920091 (DUP) 3392161011 For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.3470	8.3460	RPD	0.01 (Max-10)	

QC Batch

QC Batch	1357374	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3392161006	3392161001	3392161002	3392161003
3392161004	3392161005		

Duplicate 3920793 (DUP) 3391836001 (non-Project Sample) For QC Batch 1357374

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	47	35	RPD 29.30* (Max-20)	

Duplicate 3920796 (DUP) 3391836011 (non-Project Sample) For QC Batch 1357374

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	0	0	RPD 0 (Max-20)	ND

Method Blank 3920792 (MB) Created on 12/19/2024 09:05 For QC Batch 1357374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3920795 (MB) Created on 12/19/2024 09:05 For QC Batch 1357374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3920798 (MB) Created on 12/19/2024 09:05 For QC Batch 1357374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1359622	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3392161007 3392161008 3392161009 3392161010 3392161011

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922309 (DUP) 3392316004 (non-Project Sample) For QC Batch 1359622

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	40	49	RPD 20.20* (Max-20)	

Method Blank 3922305 (MB) Created on 12/23/2024 08:53 For QC Batch 1359622

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3922306 (DUP) 3392161007 For QC Batch 1359622

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	0	0	RPD 0 (Max-20)	ND

Method Blank 3922308 (MB) Created on 12/23/2024 08:53 For QC Batch 1359622

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3922311 (MB) Created on 12/23/2024 08:53 For QC Batch 1359622

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1359756	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161010	3392161001	3392161011	3392161002
3392161003	3392161004	3392161005	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922696 (DUP) 3392316001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	314.04	302.40	RPD	3.78 (Max-20)	
pH	PH	DUP					

Duplicate 3922700 (DUP) 3392379005 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	274.52	270.04	RPD	1.65 (Max-20)	
pH	PH	DUP					

Duplicate 3922701 (DUP) 3392402001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	122.64	120.24	RPD	1.98 (Max-20)	
pH	PH	DUP					

Duplicate 3922705 (DUP) 3392589001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	68.48	67.16	RPD	1.95 (Max-20)	
pH	PH	DUP	8.09	8.0960	RPD	0.07 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922709 (DUP) 3392622001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)		Qualifiers
pH	PH	DUP	3.8370	5.2310	RPD 30.70* (Max-10)	

Duplicate 3922713 (DUP) 3392641005 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Alkalinity, Total	ALKT	DUP	30.68	30.64	RPD 0.13 (Max-20)	
pH	PH	DUP	7.4010	7.3550	RPD 0.62 (Max-10)	

Duplicate 3922717 (DUP) 3392641015 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Alkalinity, Total	ALKT	DUP	29.40	29.20	RPD 0.68 (Max-20)	
pH	PH	DUP	7.6850	7.6690	RPD 0.21 (Max-10)	

Duplicate 3922721 (DUP) 3392641025 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Alkalinity, Total	ALKT	DUP	95.92	96.84	RPD 0.95 (Max-20)	
pH	PH	DUP	8.2880	8.2750	RPD 0.16 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922725 (DUP) 3392711003 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3922729 (DUP) 3392812006 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	210.28	210.40	RPD	0.06	(Max-20)	
pH	PH	DUP	8.4680	8.4550	RPD	0.15	(Max-10)	

Method Blank 3922687 (MB) Created on 12/23/2024 16:10 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3922691 (DUP) 3392161001 For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	210.64	203.12	RPD	3.63	(Max-20)	
pH	PH	DUP	8.2560	8.2480	RPD	0.10	(Max-10)	

Method Blank 3922693 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922695 (DUP) 3392161011 For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Alkalinity, Total	ALKT	DUP	505.20	489.20	RPD 3.22 (Max-20)	
pH	PH	DUP				

Method Blank 3922698 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922703 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922707 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922711 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922715 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3922719 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922723 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922727 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922731 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1360529	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161010	3392161011	3392161001	3392161002
3392161003	3392161004	3392161005	

Duplicate 3922899 (DUP) 3393195003 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	2003	2009	RPD	0.30 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922901 (DUP) 3392396004 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	1227	1222	RPD	0.41 (Max-10)	

Duplicate 3922903 (DUP) 3392847010 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	153.10	151.10	RPD	1.31 (Max-10)	

Duplicate 3922905 (DUP) 3392633001 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	232	232	RPD	0 (Max-10)	

Duplicate 3922907 (DUP) 3393095003 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	1099	1107	RPD	0.73 (Max-10)	

Duplicate 3922897 (DUP) 3392161010 For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	1296	1300	RPD	0.31	(Max-10)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392161001	MW-33	SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356411	12/17/2024 07:40	AJN	SW846 7470A	1356473
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355098
3392161002	MW-32	SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355098
3392161003	MW-19S	SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356964
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355098
3392161004	MW-19D	SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1356405
		N/A	N/A	N/A		SW846 9056A	1355098

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392161005	MW-11S	SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355098
3392161006	MW-11D	SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1362581
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1356405
		N/A	N/A	N/A		SW846 9056A	1355098
3392161007	MW-11D-Dup	SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1362502
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1356405
		N/A	N/A	N/A		SW846 9056A	1355098
3392161008	MW-31	SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356964
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1362502
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1356405
		N/A	N/A	N/A		SW846 9056A	1356794
		N/A	N/A	N/A		SW846 9056A	1355098

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392161009	MW-29	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356411	12/17/2024 07:40	AJN	SW846 7470A	1356473
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1362581
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355098
3392161010	MW-8S	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356448
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355098
3392161011	MW-8D	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1362581
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356448
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1356405
		N/A	N/A	N/A		SW846 9056A	1355098
3392161012	Trip Blank	N/A	N/A	N/A		SW846 8260D	1357890

ALS

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3392161
Logged By: CXW
PM: EXP
ALS Quote #:
1 of 2

Client Name: Michael Baker Intl.
Address: 100 Airside Drive
Moon Twp., PA

Contact: C. Kupfer
Phone#: 412-269-6300
Project Name/#: Erie Coke Works
Bill To:
Purchase Order #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

Container Type	G	G	P	P						
Container Size	3 40 ml	1 500 ml	4 125 ml	2 1L						
Preservative	HCl	~~HNP~~	HNO3 MJE 12/13/24	~~HNP~~						

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.						
			Enter Number of Containers Per Sample or Field Results Below.													
1 MW-33	12/12/24	0939		G	GW	3	1	2	2	2	MJE 12/13/24					
2 MW-32		1115				X	X	X	X	X						
3 MW-19S		0950				X	X	X	X	X						
4 MW-19D		1125				X	X	X	X	X						
5 MW-11S		0940				X	X	X	X	X						
6 MW-11D		1055				X	X	X	X	X						
7 MW-11D-DUP		1110				X	X	X	X	X						
8 MW-31		1430				X	X	X	X	X						
9 MW-29		1510				X	X	X	X	X						
10 MW-85	↓	1430		↓	↓	X	X	X	X	X						

Temp Taken By: MJE Therm ID: 569 WO Temp (°C): 0°
Receipt Info completed by: WV Containers 0-6°C: Y N NA
Cooler Custody Seal: YES
Sample Custody Seal: below
Received on Ice
Coolers & Samples
Correct Containers
Sample Label/COC
Adequate Sample
VOA only: Trip Blank
NJ ≤ 4 days?
Courier/Tracking #

Temp By:	WO Temp (°C)	Therm ID
MJE	0°	569

Receipt Info Completed By: MJE
Cooler Custody Seal Intact: Y N NA
Sample Custody Seal Intact: Y N NA
Received on Ice: Y N NA
Cooler & Samples Intact: Y N
Correct Containers Provided: Y N
Sample Label/COC Agree: Y N
Adequate Sample Volumes: Y N
CR6 Samples Filtered: Y N NA
OP Samples Filtered: Y N NA
VOA Trip Blank: Y N NA
NJ≤ 4 Days?
Rad Screen (uCi):
Courier/Tracking #: 283188718124
SDWA Compliance: Y N
PWSID
WV Containers 0-6°C: Y N NA
PWS Contact: *No Sampler - MJE 12/13/24

Sample(s) for Radi
Reportable SDWA
SDWA State of Ori
PWSID #

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks
* The following samples are considered "Hot": MW-11D, MW-11D-DUP, MW-31, MW-29

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: ID:
Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/12/24	1700	1	Dave Gaviglia / MBI	2	Fedex
12/13/24	854	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

283188718124

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 2 of 2

ALS Quote #:

Client Name: Michael Baker Intl.

Address: 100 Airside Drive Moon Twp., PA

Contact: C. Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges. Approved?

Date Required:

Email? [ ]

Container Type	G	G	P	P
Container Size	3 40 ml	1 500 ml	4 125 ml	2 1L
Preservative	HCl	~~HNO~~ MSF 12/13/24	HNO3	~~HNO~~ MSF 12/13/24

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.	Enter Number of Containers Per Sample or Field Results Below.
1 MW-8D	12/12/24	1545	G	G	GW	X	X	X	X	X	
2 TB-43	—	—	—	—	W	X		MSF 12/13/24			
3											
4											
5											
6											
7											
8											
9											
10											

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/12/24	1700	1	Dave Gavaglia / MBI	2	Fedex
12/13/24	854	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Receipt Information (completed by Receiving Lab)

Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N

Courier/Tracking #

Deviations? NO YES

If YES, list below:

Client contact:

Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi):

Reportable SDWA Sample(s)? Y N New Source? Y N

SDWA State of Origin? New Source Contact:

PWSID #

PWS Contact: PWS Phone #:

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ]

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

Rev 07.06.2023

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke Works 188511-3020
Workorder 3392316
Report ID 380461 on 1/9/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 14, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3392316001	MW-35S	Ground Water	12/13/2024 09:45	12/14/2024 08:41	CBC	Collected By Client
3392316002	MW-35D	Ground Water	12/13/2024 11:00	12/14/2024 08:41	CBC	Collected By Client
3392316003	MW-6S	Ground Water	12/13/2024 09:30	12/14/2024 08:41	CBC	Collected By Client
3392316004	MW-6D	Ground Water	12/13/2024 10:50	12/14/2024 08:41	CBC	Collected By Client
3392316005	MW-30	Ground Water	12/13/2024 09:30	12/14/2024 08:41	CBC	Collected By Client
3392316006	MW-9S	Ground Water	12/13/2024 10:55	12/14/2024 08:41	CBC	Collected By Client
3392316007	TB-44	Ground Water	12/13/2024 00:00	12/14/2024 08:41	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID		
3392316006	MW-9S	S1	This sample was analyzed at a dilution in the 8260 volatiles analysis due to matrix. Reporting limits were adjusted accordingly.

Result Notations

Notation Ref.	
1	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
2	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
4	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Isopropylbenzene. The % Recovery was reported as 130 and the control limits were 73 to 129.
5	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 69.7 and the control limits were 80 to 120.
6	The QC sample type DUP for method SM2310B-2011 was outside the control limits for the analyte Acidity, Total. The RPD was reported as 20.2 and the upper control limit is 20.
7	The QC sample type MSD for method SW846 6010C was outside the control limits for the analyte Antimony, Dissolved. The % Recovery was reported as 49.6 and the control limits were 75 to 125.
8	The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.
9	The QC sample type MS for method SW846 6010C was outside the control limits for the analyte Antimony, Dissolved. The % Recovery was reported as 52.8 and the control limits were 75 to 125.
10	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
11	The surrogate 2-Fluorobiphenyl for method SW846 8270E was outside of control limits. The % Recovery was reported as 4.57 and the control limits were 24 to 116. This result was reported at a dilution of 1.
12	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 61.3 and the control limits were 80 to 120.

Detected Results Summary

Client Sample ID	MW-35S	Collected	12/13/2024 09:45
Lab Sample ID	3392316001	Lab Receipt	12/14/2024 08:41

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0034J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.018	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.018	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	449	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	465	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0047J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0029J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.023	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.026	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.90	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.92	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	70.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	72.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.39	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.38	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.6	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.031	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	105	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	104	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Acenaphthylene	1.5	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	0.67J	ug/L	1.5	0.25	SW846 8270E	#
Fluoranthene	0.25J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	1.1J	ug/L	1.5	0.65	SW846 8270E	#
VOLATILE ORGANICS						
Acetone	4.6J	ug/L	10.0	3.1	SW846 8260D	#
Benzene	3.1	ug/L	1.0	0.23	SW846 8260D	#
Bromomethane	0.53J	ug/L	1.0	0.39	SW846 8260D	#
o-Xylene	0.99J	ug/L	1.0	0.33	SW846 8260D	#
Total Xylenes	0.99J	ug/L	3.0	0.66	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	24	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	302	mg/L	5	5	SM2320B-2011	#
Chloride	32.3	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	37.4	mg/L	2.5	0.80	SW846 9056A	#
pH	8.26	pH_Units			S4500HB-11	#
Specific Conductance	2810	umhos/cm	50	1	SW846 9050A	#
Sulfate	1120	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2170	mg/L	25	25	SM2540C-15	#
Turbidity	1.2	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-35D	Collected	12/13/2024 11:00
Lab Sample ID	3392316002	Lab Receipt	12/14/2024 08:41

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.012	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.012	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	341	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	355	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0032J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0028J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.016	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.020	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.70	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.72	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	52.5	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	54.0	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.012	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.0087	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	2.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	2.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.032	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	65.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	65.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	0.53J	ug/L	3.0	0.50	SW846 8270E	#
Acenaphthylene	0.77J	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	0.55J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	2.8	ug/L	1.5	0.65	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	21	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	77	mg/L	5	5	SM2320B-2011	#
Chloride	15.2	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	18.2	mg/L	2.5	0.80	SW846 9056A	#
pH	8.36	pH_Units			S4500HB-11	#
Specific Conductance	1910	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	785	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1560	mg/L	25	25	SM2540C-15	#
Turbidity	0.85	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-6S	Collected	12/13/2024 09:30
Lab Sample ID	3392316003	Lab Receipt	12/14/2024 08:41

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.011	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.010J	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	481	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	497	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0048J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0039J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.017	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.018	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.19	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.19	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	57.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	58.9	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.12	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.13	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	1.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	1.8	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.32	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.28	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	105	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	105	mg/L	0.56	0.18	SW846 6010C	#
Zinc, Dissolved	0.050	mg/L	0.022	0.0073	SW846 6010C	#
Zinc, Total	0.053	mg/L	0.022	0.0073	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	35	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	298	mg/L	5	5	SM2320B-2011	#
Chloride	53.3	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	28.4	mg/L	2.5	0.80	SW846 9056A	#
pH	8.32	pH_Units			S4500HB-11	#
Specific Conductance	2800	umhos/cm	50	1	SW846 9050A	#
Sulfate	1160	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2210	mg/L	25	25	SM2540C-15	#
Turbidity	1.4	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-6D	Collected	12/13/2024 10:50
Lab Sample ID	3392316004	Lab Receipt	12/14/2024 08:41

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.013	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.013	mg/L	0.011	0.0036	SW846 6010C	#
Cadmium, Total	0.00078J	mg/L	0.0022	0.00073	SW846 6010C	#
Calcium, Dissolved	455	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	465	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0026J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0063	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.023	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.027	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.064J	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.099	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	54.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	57.6	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.044	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.053	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.2	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.27	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.27	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	99.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	98.6	mg/L	0.56	0.18	SW846 6010C	#
Zinc, Dissolved	0.12	mg/L	0.022	0.0073	SW846 6010C	#
Zinc, Total	0.13	mg/L	0.022	0.0073	SW846 6010C	#
SEMIVOLATILES						
Acenaphthylene	0.27J	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	0.33J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	1.0J	ug/L	1.5	0.65	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	49	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	312	mg/L	5	5	SM2320B-2011	#
Chloride	52.2	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	28.8	mg/L	2.5	0.80	SW846 9056A	#
pH	8.36	pH_Units			S4500HB-11	#
Specific Conductance	2170	umhos/cm	50	1	SW846 9050A	#
Sulfate	1050	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2050	mg/L	25	25	SM2540C-15	#
Turbidity	1.6	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-30	Collected	12/13/2024 09:30
Lab Sample ID	3392316005	Lab Receipt	12/14/2024 08:41

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Total	0.0041J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.031	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.031	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	200	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	201	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0031J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0034J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0061J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0050J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.39	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.50	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	37.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	39.3	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.030	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.035	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	6.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	6.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.046	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.040	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	94.4	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	94.0	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	11	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	280	mg/L	5	5	SM2320B-2011	#
Chloride	46.3	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	14.0	mg/L	2.5	0.80	SW846 9056A	#
pH	8.49	pH_Units			S4500HB-11	#
Specific Conductance	1470	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	423	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1100	mg/L	25	25	SM2540C-15	#
Turbidity	1.9	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-9S	Collected	12/13/2024 10:55
Lab Sample ID	3392316006	Lab Receipt	12/14/2024 08:41

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.024	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.023	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	450	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	453	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0022J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0046J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0082J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.66	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.78	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	61.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	63.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.0	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.99	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	2.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	2.5	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	21.8	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	21.8	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	35.0	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	99.3	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	3.8	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	7.7	ug/L	3.0	0.90	SW846 8270E	#
Anthracene	16.1	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	1.4J	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.56J	ug/L	1.5	0.26	SW846 8270E	#
Benzo(b)fluoranthene	0.73J	ug/L	1.5	0.30	SW846 8270E	#
Biphenyl	2.4J	ug/L	3.0	0.25	SW846 8270E	#
bis(2-Chloroethoxy)methane	0.32J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	353	ug/L	60.0	5.0	SW846 8270E	#
Chrysene	0.94J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	6.6	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	17.3	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	6.8	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	9.2	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	3620	ug/L	150	65.0	SW846 8270E	#
o-Cresol	17.8	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	109	ug/L	1.5	0.25	SW846 8270E	#
Phenol	7.7J	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	9.8	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	171J	ug/L	500	125	SW846 8260D	#
Benzene	308J	ug/L	500	115	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	47	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	528	mg/L	50	50	SM2320B-2011	#

Detected Results Summary

Sample - MW-9S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Chloride	7.5	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	1.2J	mg/L	2.5	0.80	SW846 9056A	#
pH	8.17	pH_Units			S4500HB-11	#
Specific Conductance	2150	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	894	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1810	mg/L	25	25	SM2540C-15	#
Turbidity	9.5	NTU	0.30	0.30	SM2130B-2011	#

Results

Client Sample ID	MW-35S	Collected	12/13/2024 09:45
Lab Sample ID	3392316001	Lab Receipt	12/14/2024 08:41

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:25	MSY	E
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:25	MSY	E
Arsenic, Dissolved	0.0034J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:25	MSY	E
Barium, Dissolved	0.018		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Barium, Total	0.018		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:25	MSY	E
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:25	MSY	E
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:25	MSY	E
Calcium, Dissolved	449		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Calcium, Total	465		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:25	MSY	E
Chromium, Dissolved	0.0047J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Chromium, Total	0.0029J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:25	MSY	E
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:25	MSY	E
Copper, Dissolved	0.023		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Copper, Total	0.026		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:25	MSY	E
Iron, Dissolved	0.90		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Iron, Total	0.92		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:25	MSY	E
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:25	MSY	E
Magnesium, Dissolved	70.4		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Magnesium, Total	72.5		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:25	MSY	E
Manganese, Dissolved	0.39		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Manganese, Total	0.38		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:25	MSY	E
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 12:00	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:27	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:25	MSY	E
Potassium, Dissolved	3.6		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Potassium, Total	3.6		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:25	MSY	E
Selenium, Dissolved	0.031		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:25	MSY	E
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:25	MSY	E
Sodium, Dissolved	105		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Sodium, Total	104		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:25	MSY	E
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:25	MSY	E
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:25	MSY	E
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:25	MSY	E

Results

Client Sample ID	MW-35S	Collected	12/13/2024 09:45
Lab Sample ID	3392316001	Lab Receipt	12/14/2024 08:41

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 18:22	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 18:22	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 18:22	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:22	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 18:22	S7M	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Acenaphthylene	1.5		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 18:22	S7M	D
Anthracene	0.67J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 18:22	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:22	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 18:22	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 18:22	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 18:22	S7M	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:22	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 18:22	S7M	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 18:22	S7M	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D

Results

Client Sample ID	MW-35S	Collected	12/13/2024 09:45
Lab Sample ID	3392316001	Lab Receipt	12/14/2024 08:41

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:22	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 18:22	S7M	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:22	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Fluoranthene	0.25J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 18:22	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 18:22	S7M	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 18:22	S7M	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:22	S7M	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
Naphthalene	1.1J	J	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 18:22	S7M	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 18:22	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 18:22	S7M	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 18:22	S7M	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	74.3%	23 – 131	12/20/2024 18:22	
2-Fluorobiphenyl	321-60-8	77.8%	24 – 116	12/20/2024 18:22	
2-Fluorophenol	367-12-4	41.1%	10 – 85	12/20/2024 18:22	
Nitrobenzene-d5	4165-60-0	77.9%	32 – 125	12/20/2024 18:22	
Phenol-d5	4165-62-2	39.8%	7 – 56	12/20/2024 18:22	
Terphenyl-d14	98904-43-9	49.3%	41 – 145	12/20/2024 18:22	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 13:40	ILY	A

Results

Client Sample ID	MW-35S	Collected	12/13/2024 09:45
Lab Sample ID	3392316001	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 13:40	ILY	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 13:40	ILY	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 13:40	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 13:40	ILY	A
Acetone	4.6J	J	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 13:40	ILY	A
Benzene	3.1		ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 13:40	ILY	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 13:40	ILY	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 13:40	ILY	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 13:40	ILY	A
Bromomethane	0.53J	J	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 13:40	ILY	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 13:40	ILY	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 13:40	ILY	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 13:40	ILY	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 13:40	ILY	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 13:40	ILY	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 13:40	ILY	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 13:40	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 13:40	ILY	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 13:40	ILY	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 13:40	ILY	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 13:40	ILY	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 13:40	ILY	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 13:40	ILY	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 13:40	ILY	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 13:40	ILY	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 13:40	ILY	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 13:40	ILY	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 13:40	ILY	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 13:40	ILY	A
o-Xylene	0.99J	J	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 13:40	ILY	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 13:40	ILY	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 13:40	ILY	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 13:40	ILY	A
Total Xylenes	0.99J	J	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 13:40	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 13:40	ILY	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 13:40	ILY	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 13:40	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 13:40	ILY	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 13:40	ILY	A

Results

Client Sample ID	MW-35S	Collected	12/13/2024 09:45
Lab Sample ID	3392316001	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 – 133	12/20/2024 13:40	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	12/20/2024 13:40	
Dibromofluoromethane	1868-53-7	104%	78 – 116	12/20/2024 13:40	
Toluene-d8	2037-26-5	105%	76 – 127	12/20/2024 13:40	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	24	1	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	302	2	mg/L	5	5	SM2320B-2011	1	12/27/2024 09:44	JXK	I
Chloride	32.3		mg/L	5.0	2.2	SW846 9056A	5	12/14/2024 17:10	J1W	I
Nitrate-N	37.4		mg/L	2.5	0.80	SW846 9056A	5	12/14/2024 17:10	J1W	I
pH	8.26	3	pH_Units			S4500HB-11	1	12/19/2024 15:32	KMV	I
Specific Conductance	2810		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	1120		mg/L	20.0	14.0	SW846 9056A	20	12/18/2024 00:52	J1W	I
Total Dissolved Solids	2170		mg/L	25	25	SM2540C-15	1	12/18/2024 15:15	RAG	I
Turbidity	1.2		NTU	0.30	0.30	SM2130B-2011	1	12/14/2024 11:59	NPF	I

Results

Client Sample ID	MW-35D	Collected	12/13/2024 11:00
Lab Sample ID	3392316002	Lab Receipt	12/14/2024 08:41

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Barium, Dissolved	0.012		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Barium, Total	0.012		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Calcium, Dissolved	341		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Calcium, Total	355		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Chromium, Dissolved	0.0032J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Chromium, Total	0.0028J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Copper, Dissolved	0.016		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Copper, Total	0.020		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Iron, Dissolved	0.70		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Iron, Total	0.72		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Magnesium, Dissolved	52.5		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Magnesium, Total	54.0		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Manganese, Dissolved	0.012		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Manganese, Total	0.0087		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 12:01	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:17	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Potassium, Dissolved	2.1		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Potassium, Total	2.2		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Selenium, Dissolved	0.032		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Sodium, Dissolved	65.2		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Sodium, Total	65.1		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:27	MSY	E1

Results

Client Sample ID	MW-35D	Collected	12/13/2024 11:00
Lab Sample ID	3392316002	Lab Receipt	12/14/2024 08:41

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,4-Dimethylphenol	0.53J	J	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 19:37	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 19:37	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 19:37	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:37	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 19:37	S7M	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Acenaphthylene	0.77J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 19:37	S7M	D
Anthracene	0.55J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 19:37	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:37	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 19:37	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 19:37	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 19:37	S7M	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:37	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 19:37	S7M	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 19:37	S7M	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D

Results

Client Sample ID	MW-35D	Collected	12/13/2024 11:00
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:37	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 19:37	S7M	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:37	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 19:37	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 19:37	S7M	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 19:37	S7M	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:37	S7M	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
Naphthalene	2.8		ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 19:37	S7M	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 19:37	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 19:37	S7M	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 19:37	S7M	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	86.3%	23 – 131	12/20/2024 19:37	
2-Fluorobiphenyl	321-60-8	73.1%	24 – 116	12/20/2024 19:37	
2-Fluorophenol	367-12-4	36.1%	10 – 85	12/20/2024 19:37	
Nitrobenzene-d5	4165-60-0	65.5%	32 – 125	12/20/2024 19:37	
Phenol-d5	4165-62-2	37.2%	7 – 56	12/20/2024 19:37	
Terphenyl-d14	98904-43-9	53.9%	41 – 145	12/20/2024 19:37	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 14:00	ILY	A

Results

Client Sample ID	MW-35D	Collected	12/13/2024 11:00
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:00	ILY	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 14:00	ILY	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 14:00	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 14:00	ILY	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 14:00	ILY	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:00	ILY	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:00	ILY	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:00	ILY	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 14:00	ILY	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 14:00	ILY	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:00	ILY	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:00	ILY	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 14:00	ILY	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:00	ILY	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:00	ILY	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 14:00	ILY	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:00	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:00	ILY	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:00	ILY	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:00	ILY	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:00	ILY	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:00	ILY	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:00	ILY	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:00	ILY	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 14:00	ILY	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:00	ILY	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:00	ILY	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:00	ILY	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 14:00	ILY	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:00	ILY	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:00	ILY	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 14:00	ILY	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:00	ILY	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 14:00	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:00	ILY	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:00	ILY	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:00	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:00	ILY	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:00	ILY	A

Results

Client Sample ID	MW-35D	Collected	12/13/2024 11:00
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/20/2024 14:00	
4-Bromofluorobenzene	460-00-4	94%	79 – 114	12/20/2024 14:00	
Dibromofluoromethane	1868-53-7	96.1%	78 – 116	12/20/2024 14:00	
Toluene-d8	2037-26-5	98.2%	76 – 127	12/20/2024 14:00	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	21	1	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	77	2	mg/L	5	5	SM2320B-2011	1	12/27/2024 09:18	JXK	I
Chloride	15.2		mg/L	5.0	2.2	SW846 9056A	5	12/14/2024 18:06	J1W	I
Nitrate-N	18.2		mg/L	2.5	0.80	SW846 9056A	5	12/14/2024 18:06	J1W	I
pH	8.36	3	pH_Units			S4500HB-11	1	12/19/2024 16:20	KMV	I
Specific Conductance	1910		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	785		mg/L	10.0	7.0	SW846 9056A	10	12/18/2024 01:03	J1W	I
Total Dissolved Solids	1560		mg/L	25	25	SM2540C-15	1	12/18/2024 15:15	RAG	I
Turbidity	0.85		NTU	0.30	0.30	SM2130B-2011	1	12/14/2024 11:59	NPF	I

Results

Client Sample ID	MW-6S	Collected	12/13/2024 09:30
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Barium, Dissolved	0.011		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Barium, Total	0.010J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Calcium, Dissolved	481		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Calcium, Total	497		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Chromium, Dissolved	0.0048J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Chromium, Total	0.0039J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Copper, Dissolved	0.017		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Copper, Total	0.018		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Iron, Dissolved	0.19		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Iron, Total	0.19		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Magnesium, Dissolved	57.9		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Magnesium, Total	58.9		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Manganese, Dissolved	0.12		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Manganese, Total	0.13		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 12:06	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:28	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Potassium, Dissolved	1.7		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Potassium, Total	1.8		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Selenium, Dissolved	0.32		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Selenium, Total	0.28		mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Sodium, Dissolved	105		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Sodium, Total	105		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Zinc, Dissolved	0.050		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Zinc, Total	0.053		mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:28	MSY	E1

Results

Client Sample ID	MW-6S	Collected	12/13/2024 09:30
Lab Sample ID	3392316003	Lab Receipt	12/14/2024 08:41

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 17:33	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 17:33	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 17:33	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:33	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 17:33	S7M	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 17:33	S7M	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 17:33	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:33	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 17:33	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 17:33	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 17:33	S7M	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:33	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 17:33	S7M	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 17:33	S7M	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:33	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 17:33	S7M	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:33	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 17:33	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 17:33	S7M	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 17:33	S7M	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:33	S7M	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 17:33	S7M	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 17:33	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 17:33	S7M	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 17:33	S7M	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	88.3%	23 – 131	12/20/2024 17:33	
2-Fluorobiphenyl	321-60-8	77.4%	24 – 116	12/20/2024 17:33	
2-Fluorophenol	367-12-4	47.6%	10 – 85	12/20/2024 17:33	
Nitrobenzene-d5	4165-60-0	73.9%	32 – 125	12/20/2024 17:33	
Phenol-d5	4165-62-2	40.4%	7 – 56	12/20/2024 17:33	
Terphenyl-d14	98904-43-9	44.4%	41 – 145	12/20/2024 17:33	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 14:19	ILY	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:19	ILY	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 14:19	ILY	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 14:19	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 14:19	ILY	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 14:19	ILY	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:19	ILY	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:19	ILY	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:19	ILY	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 14:19	ILY	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 14:19	ILY	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:19	ILY	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:19	ILY	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 14:19	ILY	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:19	ILY	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:19	ILY	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 14:19	ILY	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:19	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:19	ILY	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:19	ILY	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:19	ILY	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:19	ILY	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:19	ILY	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:19	ILY	A
Isopropylbenzene	ND	ND,4	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:19	ILY	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 14:19	ILY	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:19	ILY	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:19	ILY	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:19	ILY	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 14:19	ILY	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:19	ILY	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:19	ILY	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 14:19	ILY	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:19	ILY	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 14:19	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:19	ILY	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:19	ILY	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:19	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:19	ILY	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:19	ILY	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	12/20/2024 14:19	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	12/20/2024 14:19	
Dibromofluoromethane	1868-53-7	103%	78 – 116	12/20/2024 14:19	
Toluene-d8	2037-26-5	103%	76 – 127	12/20/2024 14:19	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	35	1	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	298	2	mg/L	5	5	SM2320B-2011	1	12/27/2024 09:33	JXK	I
Chloride	53.3		mg/L	5.0	2.2	SW846 9056A	5	12/14/2024 18:18	J1W	I
Nitrate-N	28.4		mg/L	2.5	0.80	SW846 9056A	5	12/14/2024 18:18	J1W	I
pH	8.32	3	pH_Units			S4500HB-11	1	12/19/2024 16:36	KMV	I
Specific Conductance	2800		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	1160	5	mg/L	20.0	14.0	SW846 9056A	20	12/18/2024 01:15	J1W	I
Total Dissolved Solids	2210		mg/L	25	25	SM2540C-15	1	12/18/2024 15:15	RAG	I
Turbidity	1.4		NTU	0.30	0.30	SM2130B-2011	1	12/14/2024 11:59	NPF	I

Results

Client Sample ID	MW-6D	Collected	12/13/2024 10:50
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Antimony, Dissolved	ND	ND,7,8,9	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Barium, Dissolved	0.013		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Barium, Total	0.013		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Cadmium, Total	0.00078J	J	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Calcium, Dissolved	455	10	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Calcium, Total	465		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Chromium, Dissolved	0.0026J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Chromium, Total	0.0063		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:20	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Copper, Dissolved	0.023		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Copper, Total	0.027		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Iron, Dissolved	0.064J	J	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Iron, Total	0.099		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Magnesium, Dissolved	54.9	10	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Magnesium, Total	57.6		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Manganese, Dissolved	0.044		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Manganese, Total	0.053		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 12:07	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:29	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Potassium, Dissolved	3.2		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Potassium, Total	3.2		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Selenium, Dissolved	0.27		mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Selenium, Total	0.27		mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Sodium, Dissolved	99.0		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Sodium, Total	98.6		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Zinc, Dissolved	0.12		mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Zinc, Total	0.13		mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:29	MSY	E1

Results

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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 18:47	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 18:47	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 18:47	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:47	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 18:47	S7M	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Acenaphthylene	0.27J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 18:47	S7M	D
Anthracene	0.33J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 18:47	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:47	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 18:47	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 18:47	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 18:47	S7M	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:47	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 18:47	S7M	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 18:47	S7M	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:47	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 18:47	S7M	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:47	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 18:47	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 18:47	S7M	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 18:47	S7M	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:47	S7M	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
Naphthalene	1.0J	J	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 18:47	S7M	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 18:47	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 18:47	S7M	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 18:47	S7M	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	90.2%	23 – 131	12/20/2024 18:47	
2-Fluorobiphenyl	321-60-8	73.3%	24 – 116	12/20/2024 18:47	
2-Fluorophenol	367-12-4	47.2%	10 – 85	12/20/2024 18:47	
Nitrobenzene-d5	4165-60-0	67.8%	32 – 125	12/20/2024 18:47	
Phenol-d5	4165-62-2	38.1%	7 – 56	12/20/2024 18:47	
Terphenyl-d14	98904-43-9	44.6%	41 – 145	12/20/2024 18:47	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 14:39	ILY	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:39	ILY	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 14:39	ILY	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 14:39	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 14:39	ILY	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 14:39	ILY	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:39	ILY	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:39	ILY	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:39	ILY	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 14:39	ILY	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 14:39	ILY	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:39	ILY	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:39	ILY	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 14:39	ILY	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:39	ILY	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:39	ILY	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 14:39	ILY	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:39	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:39	ILY	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:39	ILY	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:39	ILY	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:39	ILY	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:39	ILY	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:39	ILY	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:39	ILY	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 14:39	ILY	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:39	ILY	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:39	ILY	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:39	ILY	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 14:39	ILY	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:39	ILY	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:39	ILY	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 14:39	ILY	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:39	ILY	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 14:39	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:39	ILY	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:39	ILY	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:39	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:39	ILY	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:39	ILY	A

Results

Client Sample ID	MW-6D	Collected	12/13/2024 10:50
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/20/2024 14:39	
4-Bromofluorobenzene	460-00-4	97.8%	79 – 114	12/20/2024 14:39	
Dibromofluoromethane	1868-53-7	98%	78 – 116	12/20/2024 14:39	
Toluene-d8	2037-26-5	102%	76 – 127	12/20/2024 14:39	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	49	1,6	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	312	2	mg/L	5	5	SM2320B-2011	1	12/27/2024 10:30	JXK	I
Chloride	52.2		mg/L	5.0	2.2	SW846 9056A	5	12/14/2024 18:29	J1W	I
Nitrate-N	28.8		mg/L	2.5	0.80	SW846 9056A	5	12/14/2024 18:29	J1W	I
pH	8.36	3	pH_Units			S4500HB-11	1	12/19/2024 16:52	KMV	I
Specific Conductance	2170		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	1050		mg/L	20.0	14.0	SW846 9056A	20	12/18/2024 02:12	J1W	I
Total Dissolved Solids	2050		mg/L	25	25	SM2540C-15	1	12/18/2024 15:15	RAG	I
Turbidity	1.6		NTU	0.30	0.30	SM2130B-2011	1	12/14/2024 11:59	NPF	I

Results

Client Sample ID	MW-30	Collected	12/13/2024 09:30
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Arsenic, Total	0.0041J	J	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Barium, Dissolved	0.031		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Barium, Total	0.031		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Calcium, Dissolved	200		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Calcium, Total	201		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Chromium, Dissolved	0.0031J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Chromium, Total	0.0034J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:25	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Copper, Dissolved	0.0061J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Copper, Total	0.0050J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Iron, Dissolved	0.39		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Iron, Total	0.50		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Magnesium, Dissolved	37.9		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Magnesium, Total	39.3		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Manganese, Dissolved	0.030		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Manganese, Total	0.035		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 12:08	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:26	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Potassium, Dissolved	6.1		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Potassium, Total	6.2		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Selenium, Dissolved	0.046		mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Selenium, Total	0.040		mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Sodium, Dissolved	94.4		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Sodium, Total	94.0		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:30	MSY	E1

Results

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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 17:58	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 17:58	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 17:58	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:58	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 17:58	S7M	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 17:58	S7M	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 17:58	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:58	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 17:58	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 17:58	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 17:58	S7M	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:58	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 17:58	S7M	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 17:58	S7M	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:58	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 17:58	S7M	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:58	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 17:58	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 17:58	S7M	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 17:58	S7M	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:58	S7M	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 17:58	S7M	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 17:58	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 17:58	S7M	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 17:58	S7M	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	83%	23 – 131	12/20/2024 17:58	
2-Fluorobiphenyl	321-60-8	73.3%	24 – 116	12/20/2024 17:58	
2-Fluorophenol	367-12-4	40.3%	10 – 85	12/20/2024 17:58	
Nitrobenzene-d5	4165-60-0	63.1%	32 – 125	12/20/2024 17:58	
Phenol-d5	4165-62-2	38.9%	7 – 56	12/20/2024 17:58	
Terphenyl-d14	98904-43-9	50%	41 – 145	12/20/2024 17:58	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 14:59	ILY	A

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:59	ILY	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 14:59	ILY	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 14:59	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 14:59	ILY	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 14:59	ILY	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:59	ILY	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:59	ILY	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:59	ILY	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 14:59	ILY	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 14:59	ILY	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:59	ILY	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:59	ILY	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 14:59	ILY	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:59	ILY	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:59	ILY	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 14:59	ILY	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:59	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:59	ILY	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:59	ILY	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:59	ILY	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:59	ILY	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:59	ILY	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:59	ILY	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:59	ILY	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 14:59	ILY	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:59	ILY	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:59	ILY	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:59	ILY	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 14:59	ILY	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:59	ILY	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:59	ILY	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 14:59	ILY	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:59	ILY	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 14:59	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:59	ILY	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:59	ILY	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:59	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:59	ILY	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:59	ILY	A

Results

Client Sample ID	MW-30	Collected	12/13/2024 09:30
Lab Sample ID	3392316005	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	12/20/2024 14:59	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	12/20/2024 14:59	
Dibromofluoromethane	1868-53-7	105%	78 – 116	12/20/2024 14:59	
Toluene-d8	2037-26-5	109%	76 – 127	12/20/2024 14:59	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	11	1	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	280	2	mg/L	5	5	SM2320B-2011	1	12/27/2024 10:45	JXK	I
Chloride	46.3		mg/L	5.0	2.2	SW846 9056A	5	12/14/2024 18:41	J1W	I
Nitrate-N	14.0		mg/L	2.5	0.80	SW846 9056A	5	12/14/2024 18:41	J1W	I
pH	8.49	3	pH_Units			S4500HB-11	1	12/19/2024 17:07	KMV	I
Specific Conductance	1470		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	423		mg/L	5.0	3.5	SW846 9056A	5	12/14/2024 18:41	J1W	I
Total Dissolved Solids	1100		mg/L	25	25	SM2540C-15	1	12/18/2024 15:15	RAG	I
Turbidity	1.9		NTU	0.30	0.30	SM2130B-2011	1	12/14/2024 11:59	NPF	I

Results

Client Sample ID	MW-9S	Collected	12/13/2024 10:55
Lab Sample ID	3392316006	Lab Receipt	12/14/2024 08:41

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,S1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Aluminum, Total	ND	ND,S1	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Antimony, Dissolved	ND	ND,S1	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Antimony, Total	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Arsenic, Dissolved	ND	ND,S1	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Arsenic, Total	ND	ND,S1	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Barium, Dissolved	0.024	S1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Barium, Total	0.023	S1	mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Beryllium, Dissolved	ND	ND,S1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Beryllium, Total	ND	ND,S1	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Cadmium, Dissolved	ND	ND,S1	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Cadmium, Total	ND	ND,S1	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Calcium, Dissolved	450	S1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Calcium, Total	453	S1	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Chromium, Dissolved	ND	ND,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Chromium, Total	0.0022J	J,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Cobalt, Dissolved	ND	ND,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:26	MSY	G1
Cobalt, Total	ND	ND,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Copper, Dissolved	0.0046J	J,S1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Copper, Total	0.0082J	J,S1	mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Iron, Dissolved	0.66	S1	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Iron, Total	0.78	S1	mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Lead, Dissolved	ND	ND,S1	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Lead, Total	ND	ND,S1	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Magnesium, Dissolved	61.9	S1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Magnesium, Total	63.7	S1	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Manganese, Dissolved	1.0	S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Manganese, Total	0.99	S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Mercury, Dissolved	ND	ND,S1	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 12:05	AJN	G
Mercury, Total	ND	ND,S1	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:25	AJN	E
Nickel, Dissolved	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Nickel, Total	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Potassium, Dissolved	2.6	S1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Potassium, Total	2.5	S1	mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Selenium, Dissolved	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Selenium, Total	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Silver, Dissolved	ND	ND,S1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Silver, Total	ND	ND,S1	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Sodium, Dissolved	21.8	S1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Sodium, Total	21.8	S1	mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Thallium, Dissolved	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Thallium, Total	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Vanadium, Dissolved	ND	ND,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Vanadium, Total	ND	ND,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Zinc, Dissolved	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Zinc, Total	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:31	MSY	E1

Results

Client Sample ID	MW-9S	Collected	12/13/2024 10:55
Lab Sample ID	3392316006	Lab Receipt	12/14/2024 08:41

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
1,4-Dioxane	ND	ND,S1	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,4,5-Trichlorophenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,4,6-Trichlorophenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,4-Dichlorophenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,4-Dimethylphenol	35.0	S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,4-Dinitrophenol	ND	ND,S1	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,4-Dinitrotoluene	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,6-Dinitrotoluene	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
2-Chloronaphthalene	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
2-Chlorophenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND,S1	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 19:12	S7M	D
2-Methylnaphthalene	99.3	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
2-Nitroaniline	ND	ND,S1	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 19:12	S7M	D
2-Nitrophenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
3,3-Dichlorobenzidine	ND	ND,S1	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 19:12	S7M	D
3-Nitroaniline	ND	ND,S1	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:12	S7M	D
4-Bromophenyl-phenylether	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
4-Chloro-3-methylphenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
4-Chloroaniline	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
4-Chlorophenyl-phenylether	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
4-Nitroaniline	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
4-Nitrophenol	ND	ND,S1	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 19:12	S7M	D
Acenaphthene	ND	ND,S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Acenaphthylene	3.8	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Acetophenone	7.7	S1	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 19:12	S7M	D
Anthracene	16.1	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Atrazine	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Benzaldehyde	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Benzo(a)anthracene	1.4J	J,S1	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 19:12	S7M	D
Benzo(a)pyrene	0.56J	J,S1	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:12	S7M	D
Benzo(b)fluoranthene	0.73J	J,S1	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 19:12	S7M	D
Benzo(g,h,i)perylene	ND	ND,S1	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 19:12	S7M	D
Benzo(k)fluoranthene	ND	ND,S1	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 19:12	S7M	D
Biphenyl	2.4J	J,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
bis(2-Chloroethoxy)methane	0.32J	J,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
bis(2-Chloroethyl)ether	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND,S1	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:12	S7M	D
Butylbenzylphthalate	ND	ND,S1	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 19:12	S7M	D
Caprolactam	ND	ND,S1	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 19:12	S7M	D
Carbazole	353	S1	ug/L	60.0	5.0	SW846 8270E	20	12/24/2024 06:55	M1O	D

Results

Client Sample ID	MW-9S	Collected	12/13/2024 10:55
Lab Sample ID	3392316006	Lab Receipt	12/14/2024 08:41

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.94J	J,S1	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:12	S7M	D
Dibenzo(a,h)anthracene	ND	ND,S1	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 19:12	S7M	D
Dibenzofuran	6.6	S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Diethylphthalate	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Dimethylphthalate	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Di-n-Butylphthalate	ND	ND,S1	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:12	S7M	D
Di-n-Octylphthalate	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Fluoranthene	17.3	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Fluorene	6.8	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Hexachlorobenzene	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Hexachlorobutadiene	ND	ND,S1	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 19:12	S7M	D
Hexachlorocyclopentadiene	ND	ND,S1	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 19:12	S7M	D
Hexachloroethane	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND,S1	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 19:12	S7M	D
Isophorone	ND	ND,S1	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:12	S7M	D
mp-Cresol	9.2	S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
Naphthalene	3620	S1	ug/L	150	65.0	SW846 8270E	100	12/26/2024 23:43	M1O	D
Nitrobenzene	ND	ND,S1	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 19:12	S7M	D
N-Nitroso-di-n-propylamine	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
N-Nitrosodiphenylamine	ND	ND,S1	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 19:12	S7M	D
o-Cresol	17.8	S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
Pentachlorophenol	ND	ND,S1	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 19:12	S7M	D
Phenanthrene	109	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Phenol	7.7J	J,S1	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
Pyrene	9.8	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	100%	23 – 131	12/20/2024 19:12	
2-Fluorobiphenyl	321-60-8	4.57*%	24 – 116	12/20/2024 19:12	11
2-Fluorophenol	367-12-4	52.2%	10 – 85	12/20/2024 19:12	
Nitrobenzene-d5	4165-60-0	79.2%	32 – 125	12/20/2024 19:12	
Phenol-d5	4165-62-2	42.9%	7 – 56	12/20/2024 19:12	
Terphenyl-d14	98904-43-9	49%	41 – 145	12/20/2024 19:12	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,S1	ug/L	500	110	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND,S1	ug/L	500	170	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,1,2-Trichloroethane	ND	ND,S1	ug/L	500	165	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,1-Dichloroethane	ND	ND,S1	ug/L	500	140	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,1-Dichloroethene	ND	ND,S1	ug/L	500	145	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2,3-Trichlorobenzene	ND	ND,S1	ug/L	1000	465	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2,3-Trichloropropane	ND	ND,S1	ug/L	1000	300	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2,4-Trichlorobenzene	ND	ND,S1	ug/L	1000	410	SW846 8260D	500	12/20/2024 18:38	ILY	A

Results

Client Sample ID	MW-9S	Collected	12/13/2024 10:55
Lab Sample ID	3392316006	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	171J	J,S1	ug/L	500	125	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND,S1	ug/L	3500	750	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2-Dibromoethane	ND	ND,S1	ug/L	500	140	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2-Dichlorobenzene	ND	ND,S1	ug/L	500	190	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2-Dichloroethane	ND	ND,S1	ug/L	500	160	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2-Dichloropropane	ND	ND,S1	ug/L	500	120	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,3,5-Trimethylbenzene	ND	ND,S1	ug/L	500	100	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,3-Dichlorobenzene	ND	ND,S1	ug/L	500	125	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,4-Dichlorobenzene	ND	ND,S1	ug/L	500	135	SW846 8260D	500	12/20/2024 18:38	ILY	A
2-Butanone	ND	ND,S1	ug/L	5000	900	SW846 8260D	500	12/20/2024 18:38	ILY	A
2-Hexanone	ND	ND,S1	ug/L	2500	650	SW846 8260D	500	12/20/2024 18:38	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,S1	ug/L	2500	750	SW846 8260D	500	12/20/2024 18:38	ILY	A
Acetone	ND	ND,S1	ug/L	5000	1550	SW846 8260D	500	12/20/2024 18:38	ILY	A
Benzene	308J	J,S1	ug/L	500	115	SW846 8260D	500	12/20/2024 18:38	ILY	A
Bromochloromethane	ND	ND,S1	ug/L	500	160	SW846 8260D	500	12/20/2024 18:38	ILY	A
Bromodichloromethane	ND	ND,S1	ug/L	500	135	SW846 8260D	500	12/20/2024 18:38	ILY	A
Bromoform	ND	ND,S1	ug/L	500	200	SW846 8260D	500	12/20/2024 18:38	ILY	A
Bromomethane	ND	ND,S1	ug/L	500	195	SW846 8260D	500	12/20/2024 18:38	ILY	A
Carbon Disulfide	ND	ND,S1	ug/L	500	115	SW846 8260D	500	12/20/2024 18:38	ILY	A
Carbon Tetrachloride	ND	ND,S1	ug/L	500	155	SW846 8260D	500	12/20/2024 18:38	ILY	A
Chlorobenzene	ND	ND,S1	ug/L	500	95.0	SW846 8260D	500	12/20/2024 18:38	ILY	A
Chlorodibromomethane	ND	ND,S1	ug/L	500	225	SW846 8260D	500	12/20/2024 18:38	ILY	A
Chloroethane	ND	ND,S1	ug/L	500	165	SW846 8260D	500	12/20/2024 18:38	ILY	A
Chloroform	ND	ND,S1	ug/L	500	105	SW846 8260D	500	12/20/2024 18:38	ILY	A
Chloromethane	ND	ND,S1	ug/L	500	155	SW846 8260D	500	12/20/2024 18:38	ILY	A
cis-1,2-Dichloroethene	ND	ND,S1	ug/L	500	160	SW846 8260D	500	12/20/2024 18:38	ILY	A
cis-1,3-Dichloropropene	ND	ND,S1	ug/L	500	155	SW846 8260D	500	12/20/2024 18:38	ILY	A
Cyclohexane	ND	ND,S1	ug/L	500	145	SW846 8260D	500	12/20/2024 18:38	ILY	A
Dichlorodifluoromethane	ND	ND,S1	ug/L	500	165	SW846 8260D	500	12/20/2024 18:38	ILY	A
Ethylbenzene	ND	ND,S1	ug/L	500	170	SW846 8260D	500	12/20/2024 18:38	ILY	A
Freon 113	ND	ND,S1	ug/L	500	130	SW846 8260D	500	12/20/2024 18:38	ILY	A
Isopropylbenzene	ND	ND,S1	ug/L	500	110	SW846 8260D	500	12/20/2024 18:38	ILY	A
Methyl acetate	ND	ND,S1	ug/L	1000	160	SW846 8260D	500	12/20/2024 18:38	ILY	A
Methyl cyclohexane	ND	ND,S1	ug/L	500	150	SW846 8260D	500	12/20/2024 18:38	ILY	A
Methyl t-Butyl Ether	ND	ND,S1	ug/L	500	165	SW846 8260D	500	12/20/2024 18:38	ILY	A
Methylene Chloride	ND	ND,S1	ug/L	500	225	SW846 8260D	500	12/20/2024 18:38	ILY	A
mp-Xylene	ND	ND,S1	ug/L	1000	260	SW846 8260D	500	12/20/2024 18:38	ILY	A
o-Xylene	ND	ND,S1	ug/L	500	165	SW846 8260D	500	12/20/2024 18:38	ILY	A
Styrene	ND	ND,S1	ug/L	500	120	SW846 8260D	500	12/20/2024 18:38	ILY	A
Tetrachloroethene	ND	ND,S1	ug/L	500	175	SW846 8260D	500	12/20/2024 18:38	ILY	A
Toluene	ND	ND,S1	ug/L	500	115	SW846 8260D	500	12/20/2024 18:38	ILY	A
Total Xylenes	ND	ND,S1	ug/L	1500	330	SW846 8260D	500	12/20/2024 18:38	ILY	A
trans-1,2-Dichloroethene	ND	ND,S1	ug/L	500	130	SW846 8260D	500	12/20/2024 18:38	ILY	A
trans-1,3-Dichloropropene	ND	ND,S1	ug/L	500	145	SW846 8260D	500	12/20/2024 18:38	ILY	A
Trichloroethene	ND	ND,S1	ug/L	500	165	SW846 8260D	500	12/20/2024 18:38	ILY	A
Trichlorofluoromethane	ND	ND,S1	ug/L	500	120	SW846 8260D	500	12/20/2024 18:38	ILY	A
Vinyl Chloride	ND	ND,S1	ug/L	500	150	SW846 8260D	500	12/20/2024 18:38	ILY	A

Results

Client Sample ID	MW-9S	Collected	12/13/2024 10:55
Lab Sample ID	3392316006	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	12/20/2024 18:38	
4-Bromofluorobenzene	460-00-4	97.1%	79 – 114	12/20/2024 18:38	
Dibromofluoromethane	1868-53-7	101%	78 – 116	12/20/2024 18:38	
Toluene-d8	2037-26-5	106%	76 – 127	12/20/2024 18:38	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	47	1,S1	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	528	2,S1	mg/L	50	50	SM2320B-2011	10	12/27/2024 10:55	JXK	I
Chloride	7.5	S1	mg/L	5.0	2.2	SW846 9056A	5	12/14/2024 18:52	J1W	I
Nitrate-N	1.2J	J,S1	mg/L	2.5	0.80	SW846 9056A	5	12/14/2024 18:52	J1W	I
pH	8.17	3,S1	pH_Units			S4500HB-11	1	12/19/2024 17:20	KMV	I
Specific Conductance	2150	S1	umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	894	12,S1	mg/L	10.0	7.0	SW846 9056A	10	12/18/2024 02:46	J1W	I
Total Dissolved Solids	1810	S1	mg/L	25	25	SM2540C-15	1	12/18/2024 16:10	RAG	I
Turbidity	9.5	S1	NTU	0.30	0.30	SM2130B-2011	1	12/14/2024 11:59	NPF	I

Results

Client Sample ID	TB-44	Collected	12/13/2024 00:00
Lab Sample ID	3392316007	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 12:00	ILY	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 12:00	ILY	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 12:00	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 12:00	ILY	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 12:00	ILY	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 12:00	ILY	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 12:00	ILY	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 12:00	ILY	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 12:00	ILY	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 12:00	ILY	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 12:00	ILY	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 12:00	ILY	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 12:00	ILY	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 12:00	ILY	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 12:00	ILY	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 12:00	ILY	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 12:00	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 12:00	ILY	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 12:00	ILY	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 12:00	ILY	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 12:00	ILY	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 12:00	ILY	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 12:00	ILY	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 12:00	ILY	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 12:00	ILY	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 12:00	ILY	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 12:00	ILY	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 12:00	ILY	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 12:00	ILY	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 12:00	ILY	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 12:00	ILY	A

Results

Client Sample ID	TB-44	Collected	12/13/2024 00:00
Lab Sample ID	3392316007	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 12:00	ILY	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 12:00	ILY	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 12:00	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 12:00	ILY	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 12:00	ILY	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 12:00	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 12:00	ILY	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 12:00	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	97.8%	62 – 133	12/20/2024 12:00	
4-Bromofluorobenzene	460-00-4	98.3%	79 – 114	12/20/2024 12:00	
Dibromofluoromethane	1868-53-7	94.3%	78 – 116	12/20/2024 12:00	
Toluene-d8	2037-26-5	98.8%	76 – 127	12/20/2024 12:00	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392316001	MW-35S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392316002	MW-35D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392316003	MW-6S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392316004	MW-6D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392316005	MW-30	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392316006	MW-9S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392316007	TB-44	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1356008	Prep Method	SW846 3015A
Date	12/16/2024 10:12	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Matrix Spike 3918341 (MS) 3392003002 (non-Project Sample) For QC Batch 1356008

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918342 (MSD) 3392003002 (non-Project Sample) For QC Batch 1356008

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	MS	1.2	0.0012	1.10	105	75 - 125		
Aluminum, Total	7429-90-5	MSD	1.1	0.0012	1.10	103	75 - 125	RPD 1.71 (Max-20)	
Antimony, Total	7440-36-0	MS	0.14	0	0.22	61.7*	75 - 125		
Antimony, Total	7440-36-0	MSD	0.14	0	0.22	61.4*	75 - 125	RPD 0.41 (Max-20)	
Arsenic, Total	7440-38-2	MS	0.12	0.0081	0.11	104	75 - 125		
Arsenic, Total	7440-38-2	MSD	0.12	0.0081	0.11	105	75 - 125	RPD 0.99 (Max-20)	
Barium, Total	7440-39-3	MS	1.2	0.0260	1.10	105	75 - 125		
Barium, Total	7440-39-3	MSD	1.2	0.0260	1.10	103	75 - 125	RPD 1.52 (Max-20)	
Beryllium, Total	7440-41-7	MS	0.24	0	0.22	107	75 - 125		
Beryllium, Total	7440-41-7	MSD	0.23	0	0.22	105	75 - 125	RPD 1.65 (Max-20)	
Cadmium, Total	7440-43-9	MS	0.11	0	0.11	103	75 - 125		
Cadmium, Total	7440-43-9	MSD	0.11	0	0.11	102	75 - 125	RPD 1.56 (Max-20)	
Calcium, Total	7440-70-2	MS	124	124	1.10	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	124	124	1.10	NC	75 - 125	RPD 0.25 (Max-20)	
Chromium, Total	7440-47-3	MS	0.12	0.0010	0.11	105	75 - 125		
Chromium, Total	7440-47-3	MSD	0.11	0.0010	0.11	103	75 - 125	RPD 2.01 (Max-20)	
Cobalt, Total	7440-48-4	MS	1.1	0	1.10	101	75 - 125		
Cobalt, Total	7440-48-4	MSD	1.1	0	1.10	101	75 - 125	RPD 0.59 (Max-20)	
Copper, Total	7440-50-8	MS	1.1	0.0010	1.10	102	75 - 125		
Copper, Total	7440-50-8	MSD	1.1	0.0010	1.10	101	75 - 125	RPD 0.57 (Max-20)	
Iron, Total	7439-89-6	MS	1.2	0.0590	1.10	100	75 - 125		
Iron, Total	7439-89-6	MSD	1.2	0.0590	1.10	101	75 - 125	RPD 0.76 (Max-20)	
Lead, Total	7439-92-1	MS	0.12	0	0.11	105	75 - 125		
Lead, Total	7439-92-1	MSD	0.11	0	0.11	101	75 - 125	RPD 4.27 (Max-20)	
Magnesium, Total	7439-95-4	MS	47.8	46.90	1.10	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	48	46.90	1.10	NC	75 - 125	RPD 0.41 (Max-20)	
Manganese, Total	7439-96-5	MS	0.48	0.36	0.11	105	75 - 125		
Manganese, Total	7439-96-5	MSD	0.47	0.36	0.11	103	75 - 125	RPD 0.47 (Max-20)	
Nickel, Total	7440-02-0	MS	1.1	0	1.10	100	75 - 125		
Nickel, Total	7440-02-0	MSD	1.1	0	1.10	99.3	75 - 125	RPD 0.63 (Max-20)	
Potassium, Total	7440-09-7	MS	39.5	14.60	22.20	112	75 - 125		
Potassium, Total	7440-09-7	MSD	37.3	14.60	22.20	102	75 - 125	RPD 5.69 (Max-20)	
Selenium, Total	7782-49-2	MS	1.2	0	1.10	105	75 - 125		
Selenium, Total	7782-49-2	MSD	1.2	0	1.10	104	75 - 125	RPD 0.67 (Max-20)	
Silver, Total	7440-22-4	MS	0.12	0	0.11	107	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Silver, Total	7440-22-4	MSD	0.12	0	0.11	107	75 - 125	RPD 0.09 (Max-20)	
Sodium, Total	7440-23-5	MS	47.3	22.40	22.20	112	75 - 125		
Sodium, Total	7440-23-5	MSD	45.3	22.40	22.20	103	75 - 125	RPD 4.35 (Max-20)	
Thallium, Total	7440-28-0	MS	0.11	0	0.11	101	75 - 125		
Thallium, Total	7440-28-0	MSD	0.11	0	0.11	99.7	75 - 125	RPD 1.10 (Max-20)	
Vanadium, Total	7440-62-2	MS	0.056	0	0.0560	101	75 - 125		
Vanadium, Total	7440-62-2	MSD	0.055	0	0.0560	99.2	75 - 125	RPD 1.60 (Max-20)	
Zinc, Total	7440-66-6	MS	0.55	0	0.56	98.3	75 - 125		
Zinc, Total	7440-66-6	MSD	0.54	0	0.56	97.9	75 - 125	RPD 0.43 (Max-20)	

Method Blank 3918339 (MB) Created on 12/16/2024 01:37 For QC Batch 1356008

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	0.0036J	mg/L	0.0056	J
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	0.030J	mg/L	0.067	J
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3918340 (LCS) Created on 12/16/2024 01:37 For QC Batch 1356008

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	105	80 - 120		
Antimony, Total	7440-36-0	LCS	0.19		0.22	83.6	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	106	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Barium, Total	7440-39-3	LCS	1.2		1.10	109	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	109	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	108	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	97.2	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	108	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	107	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	101	80 - 120		
Iron, Total	7439-89-6	LCS	1.2		1.10	106	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	109	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	111	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	111	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	106	80 - 120		
Potassium, Total	7440-09-7	LCS	23.3		22.20	105	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	106	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	106	80 - 120		
Sodium, Total	7440-23-5	LCS	23.7		22.20	107	80 - 120		
Thallium, Total	7440-28-0	LCS	0.11		0.11	96.1	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.057		0.0560	103	80 - 120		
Zinc, Total	7440-66-6	LCS	0.59		0.56	106	80 - 120		

QC Batch

QC Batch	1356801	Prep Method	SW846 7470A
Date	12/18/2024 07:29	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Matrix Spike 3919759 (MS) 3392161003 (non-Project Sample) For QC Batch 1356801

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919760 (MSD) 3392161003 (non-Project Sample) For QC Batch 1356801

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0052	0	0.0050	103	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0	0.0050	96	70 - 130	RPD 7.23 (Max-20)	

Method Blank 3919757 (MB) Created on 12/18/2024 07:09 For QC Batch 1356801

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3919758 (LCS) Created on 12/18/2024 07:09 For QC Batch 1356801

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.002		0.0020	97.5	85 - 115		

Matrix Spike 3919761 (MS) 3392316002 For QC Batch 1356801

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919762 (MSD) 3392316002 For QC Batch 1356801

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0052	0.000013	0.0050	103	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0.000013	0.0050	96.1	70 - 130	RPD 7.01 (Max-20)	

QC Batch

QC Batch	1356803	Prep Method	SW846 7470A
Date	12/18/2024 07:29	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Matrix Spike 3919770 (MS) 3392207005 (non-Project Sample) For QC Batch 1356803

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919771 (MSD) 3392207005 (non-Project Sample) For QC Batch 1356803

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.003	0.000003	0.0050	60.3*	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0029	0.000003	0.0050	57.5*	70 - 130	RPD 4.75 (Max-20)	

Method Blank 3919766 (MB) Created on 12/18/2024 07:12 For QC Batch 1356803

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3919767 (LCS) Created on 12/18/2024 07:12 For QC Batch 1356803

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0019		0.0020	97	85 - 115		

QC Batch

QC Batch	1358105	Prep Method	SW846 3015A
Date	12/20/2024 11:38	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392316004 3392316005 3392316006

Method Blank 3921365 (MB) Created on 12/20/2024 07:53 For QC Batch 1358105

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3921366 (LCS) Created on 12/20/2024 07:53 For QC Batch 1358105

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.2		1.10	104	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.18		0.22	81	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.12		0.11	106	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	108	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.24		0.22	108	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	108	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.2		1.10	104	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	108	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	108	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	103	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	106	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	108	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	107	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	113	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	107	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	23		22.20	104	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	107	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.6		22.20	106	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	97.7	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.06		0.0560	107	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.58		0.56	105	80 - 120		

Matrix Spike 3921367 (MS) 3392316004 For QC Batch 1358105

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921368 (MSD) 3392316004 For QC Batch 1358105

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.1	0	1.10	102	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.1	0	1.10	101	75 - 125	RPD 0.87 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.12	0	0.22	52.8*	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.11	0	0.22	49.6*	75 - 125	RPD 6.15 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0.000560	0.11	105	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.12	0.000560	0.11	106	75 - 125	RPD 1.41 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0130	1.10	103	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.1	0.0130	1.10	102	75 - 125	RPD 0.78 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.23	0	0.22	104	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.23	0	0.22	103	75 - 125	RPD 0.72 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000560	0.11	99.8	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000560	0.11	99.2	75 - 125	RPD 0.60 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	452	455	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	453	455	1.10	NC	75 - 125	RPD 0.21 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chromium, Dissolved	7440-47-3_D	MS	0.12	0.0026	0.11	103	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0026	0.11	102	75 - 125	RPD 0.86 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	101	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	101	75 - 125	RPD 0.05 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.2	0.0230	1.10	104	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0230	1.10	104	75 - 125	RPD 0.87 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	1.2	0.0640	1.10	101	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	1.2	0.0640	1.10	101	75 - 125	RPD 0.78 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.1	0	0.11	93.5	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.1	0	0.11	93.3	75 - 125	RPD 0.21 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	55.5	54.90	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	55.6	54.90	1.10	NC	75 - 125	RPD 0.22 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.16	0.0440	0.11	106	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.16	0.0440	0.11	108	75 - 125	RPD 0.95 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0.0056	1.10	99.3	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0.0056	1.10	99	75 - 125	RPD 0.30 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	26.4	3.20	22.20	105	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	26.4	3.20	22.20	105	75 - 125	RPD 0.12 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.4	0.27	1.10	105	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.4	0.27	1.10	105	75 - 125	RPD 0.14 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	108	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	107	75 - 125	RPD 0.56 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	121	99	22.20	NC	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	121	99	22.20	NC	75 - 125	RPD 0.32 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.1	0	0.11	92.6	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.1	0	0.11	93.8	75 - 125	RPD 1.29 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.056	0	0.0560	101	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.056	0	0.0560	100	75 - 125	RPD 0.79 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.65	0.12	0.56	95.2	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.64	0.12	0.56	94.9	75 - 125	RPD 0.26 (Max-20)	

QC Batch

QC Batch	1363881	Prep Method	SW846 3015A
Date	01/03/2025 05:05	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392316001 3392316002 3392316003

Matrix Spike 3925461 (MS) 3391836012 (non-Project Sample) For QC Batch 1363881

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3925462 (MSD) 3391836012 (non-Project Sample) For QC Batch 1363881

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.1	0	1.10	102	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.1	0	1.10	103	75 - 125	RPD 0.89 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.24	0.0059	0.22	106	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.25	0.0059	0.22	108	75 - 125	RPD 1.28 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0	0.11	106	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.12	0	0.11	111	75 - 125	RPD 4.15 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0480	1.10	101	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.2	0.0480	1.10	102	75 - 125	RPD 0.77 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.23	0	0.22	102	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.23	0	0.22	103	75 - 125	RPD 0.73 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000110	0.11	98.6	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000110	0.11	99.6	75 - 125	RPD 1.01 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	341	341	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	343	341	1.10	NC	75 - 125	RPD 0.54 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.11	0.0024	0.11	101	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0024	0.11	101	75 - 125	RPD 0.19 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	100	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	102	75 - 125	RPD 1.60 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.1	0.0039	1.10	102	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0039	1.10	104	75 - 125	RPD 1.99 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	14.3	13.10	1.10	NC	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	14.4	13.10	1.10	NC	75 - 125	RPD 1.11 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.11	0	0.11	96.2	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.1	0	0.11	93.1	75 - 125	RPD 3.28 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	46.5	45.70	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	46.8	45.70	1.10	NC	75 - 125	RPD 0.64 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.94	0.81	0.11	NC	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.93	0.81	0.11	NC	75 - 125	RPD 0.29 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0	1.10	99.2	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0	1.10	101	75 - 125	RPD 1.81 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	39	16.10	22.20	103	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	39	16.10	22.20	103	75 - 125	RPD 0.18 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.2	0.0024	1.10	107	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.2	0.0024	1.10	107	75 - 125	RPD 0.17 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	108	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	109	75 - 125	RPD 1.11 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	101	78.10	22.20	102	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	101	78.10	22.20	103	75 - 125	RPD 0.18 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.097	0	0.11	87.1	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.1	0	0.11	94.5	75 - 125	RPD 8.15 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.052	0	0.0560	93	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.053	0	0.0560	94.6	75 - 125	RPD 1.71 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.54	0	0.56	97.1	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.55	0	0.56	98.3	75 - 125	RPD 1.21 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Method Blank 3925459 (MB) Created on 01/03/2025 00:19 For QC Batch 1363881

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3925460 (LCS) Created on 01/03/2025 00:19 For QC Batch 1363881

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.1		1.10	102	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.24		0.22	106	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.11		0.11	98.3	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	105	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.23		0.22	106	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	105	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.1		1.10	98.6	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	106	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	108	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	103	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	105	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	104	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	105	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	116	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	107	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	22.6		22.20	102	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	107	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.2		22.20	104	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	98.4	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.055		0.0560	99.2	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.6		0.56	108	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1357590	Prep Method	SW846 3510C
Date	12/19/2024 16:40	Analysis Method	SW846 8270E
Tech.	BMP		

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Matrix Spike 3921156 (MS) 3392797001 (non-Project Sample) For QC Batch 1357590

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921157 (MSD) 3392797001 (non-Project Sample) For QC Batch 1357590

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2,4,5-Trichlorophenol	95-95-4	MS	431	0	500	86.1	44 - 148		
2,4,5-Trichlorophenol	95-95-4	MSD	477	0	500	95.4	44 - 148	RPD 10.30 (Max-23)	
2,4,6-Trichlorophenol	88-06-2	MS	397	0	500	79.5	41 - 148		
2,4,6-Trichlorophenol	88-06-2	MSD	463	0	500	92.6	41 - 148	RPD 15.20 (Max-23)	
2,4-Dinitrotoluene	121-14-2	MS	240	0	250	96.2	49 - 138		
2,4-Dinitrotoluene	121-14-2	MSD	248	0	250	99.2	49 - 138	RPD 3.04 (Max-22)	
Hexachlorobenzene	118-74-1	MS	196	0	250	78.4	59 - 109		
Hexachlorobenzene	118-74-1	MSD	215	0	250	86.1	59 - 109	RPD 9.40 (Max-21)	
Hexachlorobutadiene	87-68-3	MS	98	0	250	39.2	5 - 126		
Hexachlorobutadiene	87-68-3	MSD	108	0	250	43.2	5 - 126	RPD 9.74 (Max-30)	
Hexachloroethane	67-72-1	MS	82	0	250	32.8	5 - 111		
Hexachloroethane	67-72-1	MSD	90.7	0	250	36.3	5 - 111	RPD 10.10 (Max-30)	
mp-Cresol	108394/106445	MS	353	0	500	70.5	28 - 128		
mp-Cresol	108394/106445	MSD	386	0	500	77.2	28 - 128	RPD 9.08 (Max-20)	
Naphthalene	91-20-3	MS	146	9.70	250	54.3	21 - 123		
Naphthalene	91-20-3	MSD	164	9.70	250	61.7	21 - 123	RPD 11.90 (Max-30)	
Nitrobenzene	98-95-3	MS	164	0	250	65.6	41 - 128		
Nitrobenzene	98-95-3	MSD	183	0	250	73.1	41 - 128	RPD 10.80 (Max-19)	
o-Cresol	95-48-7	MS	339	0	500	67.8	34 - 136		
o-Cresol	95-48-7	MSD	374	0	500	74.8	34 - 136	RPD 9.86 (Max-23)	
Pentachlorophenol	87-86-5	MS	536	0	500	107	41 - 149		
Pentachlorophenol	87-86-5	MSD	587	0	500	117	41 - 149	RPD 9.10 (Max-28)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	431	500	86.3	23 - 131	
2,4,6-Tribromophenol	118-79-6	MSD	482	500	96.4	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	166	250	66.3	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	193	250	77.2	24 - 116	
2-Fluorophenol	367-12-4	MS	213	500	42.6	10 - 85	
2-Fluorophenol	367-12-4	MSD	249	500	49.9	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	162	250	64.6	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	181	250	72.5	32 - 125	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Phenol-d5	4165-62-2	MS	188	500	37.5	7 - 56	
Phenol-d5	4165-62-2	MSD	204	500	40.7	7 - 56	
Terphenyl-d14	98904-43-9	MS	162	250	65	41 - 145	
Terphenyl-d14	98904-43-9	MSD	203	250	81.3	41 - 145	

Method Blank 3921154 (MB) Created on 12/19/2024 15:01 For QC Batch 1357590

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	87.3	100	87.3	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	36.9	50	73.7	24 - 116	
2-Fluorophenol	367-12-4	BLK	51.5	100	51.5	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	36.7	50	73.3	32 - 125	
Phenol-d5	4165-62-2	BLK	41.4	100	41.4	7 - 56	
Terphenyl-d14	98904-43-9	BLK	50.9	50	102	41 - 145	

Lab Control Standard 3921155 (LCS) Created on 12/19/2024 15:01 For QC Batch 1357590

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	24.3		50	48.6	18 - 124		
1,4-Dioxane	123-91-1	LCS	17		50	34	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	74.9		100	74.9	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	78.4		100	78.4	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	68.1		100	68.1	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	78.1		100	78.1	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	97.9		100	97.9	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	69.6		100	69.6	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	48.8		50	97.6	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	47.8		50	95.6	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	32.8		50	65.5	27 - 125		
2-Chlorophenol	95-57-8	LCS	67.4		100	67.4	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	84.8		100	84.8	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	33.2		50	66.4	22 - 124		
2-Nitroaniline	88-74-4	LCS	47.7		50	95.4	55 - 138		
2-Nitrophenol	88-75-5	LCS	66.1		100	66.1	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	62.2		100	62.2	38 - 115		
3-Nitroaniline	99-09-2	LCS	41.1		50	82.2	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	41.4		50	82.8	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	97		100	97	46 - 144		
4-Chloroaniline	106-47-8	LCS	30.1		50	60.2	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	42.9		50	85.8	38 - 128		
4-Nitroaniline	100-01-6	LCS	48.4		50	96.7	53 - 124		
4-Nitrophenol	100-02-7	LCS	48.3		100	48.3	5 - 108		
Acenaphthene	83-32-9	LCS	39		50	78	36 - 130		
Acenaphthylene	208-96-8	LCS	34.7		50	69.5	39 - 130		
Acetophenone	98-86-2	LCS	36.2		50	72.4	49 - 117		
Anthracene	120-12-7	LCS	46.9		50	93.7	48 - 133		
Atrazine	1912-24-9	LCS	51.4		50	103	44 - 149		
Benzaldehyde	100-52-7	LCS	36.3		50	72.6	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	45.4		50	90.7	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	44.3		50	88.5	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	47.2		50	94.4	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	39.1		50	78.2	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	45.9		50	91.8	52 - 130		
Biphenyl	92-52-4	LCS	32.9		50	65.8	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	41.2		50	82.4	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	34.5		50	68.9	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	34.8		50	69.6	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	42.3		50	84.6	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	45.6		50	91.1	50 - 137		
Caprolactam	105-60-2	LCS	23		50	46	5 - 118		
Carbazole	86-74-8	LCS	46.6		50	93.3	52 - 139		
Chrysene	218-01-9	LCS	46.1		50	92.3	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	39.8		50	79.7	56 - 130		
Dibenzofuran	132-64-9	LCS	39.7		50	79.4	39 - 133		
Diethylphthalate	84-66-2	LCS	49.3		50	98.6	45 - 132		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dimethylphthalate	131-11-3	LCS	46.1		50	92.2	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	48.9		50	97.9	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	41.3		50	82.5	35 - 141		
Fluoranthene	206-44-0	LCS	48.5		50	96.9	49 - 132		
Fluorene	86-73-7	LCS	44.2		50	88.3	42 - 131		
Hexachlorobenzene	118-74-1	LCS	41.7		50	83.3	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	18.4		50	36.8	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	13.3		50	26.6	5 - 97		
Hexachloroethane	67-72-1	LCS	16.3		50	32.7	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	38.2		50	76.4	55 - 126		
Isophorone	78-59-1	LCS	40.7		50	81.5	45 - 129		
mp-Cresol	108394/106445	LCS	76.2		100	76.2	28 - 128		
Naphthalene	91-20-3	LCS	28.4		50	56.8	21 - 123		
Nitrobenzene	98-95-3	LCS	33.4		50	66.9	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	42.6		50	85.1	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	51.2		50	102	58 - 125		
o-Cresol	95-48-7	LCS	73.2		100	73.2	34 - 136		
Pentachlorophenol	87-86-5	LCS	84.4		100	84.4	41 - 149		
Phenanthrene	85-01-8	LCS	44.1		50	88.1	46 - 131		
Phenol	108-95-2	LCS	42.3		100	42.3	5 - 111		
Pyrene	129-00-0	LCS	46.2		50	92.3	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	78.4	100	78.4	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	35.3	50	70.5	24 - 116	
2-Fluorophenol	367-12-4	LCS	41.6	100	41.6	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	33.5	50	66.9	32 - 125	
Phenol-d5	4165-62-2	LCS	39.5	100	39.5	7 - 56	
Terphenyl-d14	98904-43-9	LCS	47.2	50	94.4	41 - 145	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1358219	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006	3392316007	

Duplicate 3921680 (DUP) 3392528001 (non-Project Sample) For QC Batch 1358219

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,1,1-Trichloroethane	71-55-6	DUP	2.1796	2.1094	RPD	3.27	(Max-)	
1,1,2,2-Tetrachloroethane	79-34-5	DUP	0	0	RPD	0	(Max-)	ND
1,1,2-Trichloroethane	79-00-5	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethane	75-34-3	DUP	4.9556	4.8896	RPD	1.34	(Max-)	
1,1-Dichloroethene	75-35-4	DUP	21.2252	20.3893	RPD	4.02	(Max-)	
1,2,3-Trichlorobenzene	87-61-6	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichloropropane	96-18-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trichlorobenzene	120-82-1	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trimethylbenzene	95-63-6	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromo-3-chloropropane	96-12-8	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromoethane	106-93-4	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichlorobenzene	95-50-1	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloroethane	107-06-2	DUP	0.3204	0	RPD	200	(Max-)	J
1,2-Dichloropropane	78-87-5	DUP	0	0	RPD	0	(Max-)	ND
1,3,5-Trimethylbenzene	108-67-8	DUP	0	0	RPD	0	(Max-)	ND
1,3-Dichlorobenzene	541-73-1	DUP	0	0	RPD	0	(Max-)	ND
1,4-Dichlorobenzene	106-46-7	DUP	0	0	RPD	0	(Max-)	ND
2-Butanone	78-93-3	DUP	0	0	RPD	0	(Max-)	ND
2-Hexanone	591-78-6	DUP	0	0	RPD	0	(Max-)	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	DUP	0	0	RPD	0	(Max-)	ND
Acetone	67-64-1	DUP	0	0	RPD	0	(Max-)	ND
Benzene	71-43-2	DUP	0	0	RPD	0	(Max-)	ND
Bromochloromethane	74-97-5	DUP	0	0	RPD	0	(Max-)	ND
Bromodichloromethane	75-27-4	DUP	0	0	RPD	0	(Max-)	ND
Bromoform	75-25-2	DUP	0	0	RPD	0	(Max-)	ND
Bromomethane	74-83-9	DUP	0	0	RPD	0	(Max-)	ND
Carbon Disulfide	75-15-0	DUP	0	0	RPD	0	(Max-)	ND
Carbon Tetrachloride	56-23-5	DUP	0	0	RPD	0	(Max-)	ND
Chlorobenzene	108-90-7	DUP	0	0	RPD	0	(Max-)	ND
Chlorodibromomethane	124-48-1	DUP	0	0	RPD	0	(Max-)	ND
Chloroethane	75-00-3	DUP	0	0	RPD	0	(Max-)	ND
Chloroform	67-66-3	DUP	0	0	RPD	0	(Max-)	ND
Chloromethane	74-87-3	DUP	0	0	RPD	0	(Max-)	ND
cis-1,2-Dichloroethene	156-59-2	DUP	0	0	RPD	0	(Max-)	ND
cis-1,3-Dichloropropene	10061-01-5	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
Cyclohexane	110-82-7	DUP	0	0	RPD	0	(Max-)	ND
Dichlorodifluoromethane	75-71-8	DUP	0	0	RPD	0	(Max-)	ND
Ethylbenzene	100-41-4	DUP	0	0	RPD	0	(Max-)	ND
Freon 113	76-13-1	DUP	0	0	RPD	0	(Max-)	ND
Isopropylbenzene	98-82-8	DUP	0	0	RPD	0	(Max-)	ND
Methyl acetate	79-20-9	DUP	0	0	RPD	0	(Max-)	ND
Methyl cyclohexane	108-87-2	DUP	0	0	RPD	0	(Max-)	ND
Methyl t-Butyl Ether	1634-04-4	DUP	1.0544	1.0380	RPD	1.57	(Max-)	
Methylene Chloride	75-09-2	DUP	0	0	RPD	0	(Max-)	ND
mp-Xylene	108383/106423	DUP	0	0	RPD	0	(Max-)	ND
o-Xylene	95-47-6	DUP	0	0	RPD	0	(Max-)	ND
Styrene	100-42-5	DUP	0	0	RPD	0	(Max-)	ND
Tetrachloroethene	127-18-4	DUP	0	0	RPD	0	(Max-)	ND
Toluene	108-88-3	DUP	0	0	RPD	0	(Max-)	ND
Total Xylenes	1330-20-7	DUP	0	0	RPD	0	(Max-)	ND
trans-1,2-Dichloroethene	156-60-5	DUP	0	0	RPD	0	(Max-)	ND
trans-1,3-Dichloropropene	10061-02-6	DUP	0	0	RPD	0	(Max-)	ND
Trichloroethene	79-01-6	DUP	0	0	RPD	0	(Max-)	ND
Trichlorofluoromethane	75-69-4	DUP	0	0	RPD	0	(Max-)	ND
Vinyl Chloride	75-01-4	DUP	0	0	RPD	0	(Max-)	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	DUP	31	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	DUP	27.3	30	91	79 - 114	
Dibromofluoromethane	1868-53-7	DUP	29.4	30	98.1	78 - 116	
Toluene-d8	2037-26-5	DUP	29.9	30	99.8	76 - 127	

Method Blank 3921656 (MB) Created on 12/20/2024 11:36 For QC Batch 1358219

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.2	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.9	30	99.6	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.8	30	96.1	78 - 116	
Toluene-d8	2037-26-5	BLK	30.6	30	102	76 - 127	

Lab Control Standard 3921657 (LCS) Created on 12/20/2024 11:36 For QC Batch 1358219

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.2		20	106	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.5		20	112	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.5		20	107	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.2		20	101	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.6		20	108	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.3		20	112	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.4		20	107	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.1		20	120	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22.8		20	114	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20		20	100	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	21.4		20	107	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	22		20	110	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.3		20	96.6	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.5		20	103	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	23		20	115	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	21.9		20	109	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.7		20	108	81 - 116		
2-Butanone	78-93-3	LCS	89.2		100	89.2	50 - 152		
2-Hexanone	591-78-6	LCS	94.8		100	94.8	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	96.9		100	96.9	71 - 146		
Acetone	67-64-1	LCS	94.6		100	94.6	40 - 151		
Benzene	71-43-2	LCS	20.1		20	101	80 - 124		
Bromochloromethane	74-97-5	LCS	21.3		20	106	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.8		20	109	79 - 126		
Bromoform	75-25-2	LCS	21.3		20	106	70 - 123		
Bromomethane	74-83-9	LCS	16.4		20	81.9	45 - 148		
Carbon Disulfide	75-15-0	LCS	22.2		20	111	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	18.9		20	94.3	62 - 132		
Chlorobenzene	108-90-7	LCS	20.5		20	103	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.1		20	95.4	77 - 122		
Chloroethane	75-00-3	LCS	19.7		20	98.3	51 - 142		
Chloroform	67-66-3	LCS	19.6		20	98.1	78 - 122		
Chloromethane	74-87-3	LCS	17.8		20	88.8	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.6		20	103	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.2		20	96.1	81 - 121		
Cyclohexane	110-82-7	LCS	21.1		20	106	66 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCS	16.8		20	84	17 - 166		
Ethylbenzene	100-41-4	LCS	21.2		20	106	80 - 124		
Freon 113	76-13-1	LCS	21.9		20	110	50 - 130		
Isopropylbenzene	98-82-8	LCS	25		20	125	73 - 129		
Methyl acetate	79-20-9	LCS	19.6		20	97.8	70 - 130		
Methyl cyclohexane	108-87-2	LCS	21.7		20	109	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.2		20	101	69 - 115		
Methylene Chloride	75-09-2	LCS	21.1		20	105	76 - 121		
mp-Xylene	108383/106423	LCS	41.9		40	105	79 - 125		
o-Xylene	95-47-6	LCS	20.8		20	104	79 - 124		
Styrene	100-42-5	LCS	19.9		20	99.5	79 - 123		
Tetrachloroethene	127-18-4	LCS	20.1		20	100	72 - 124		
Toluene	108-88-3	LCS	21.1		20	106	80 - 125		
Total Xylenes	1330-20-7	LCS	62.7		60	104	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.4		20	102	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.2		20	95.8	78 - 126		
Trichloroethene	79-01-6	LCS	19.3		20	96.5	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	19.3		20	96.7	38 - 123		
Vinyl Chloride	75-01-4	LCS	18.8		20	94	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	28.8	30	95.8	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.6	30	98.5	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	28.8	30	96	78 - 116	
Toluene-d8	2037-26-5	LCS	30.2	30	101	76 - 127	

Matrix Spike 3921681 (MS) 3392316003 For QC Batch 1358219

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	21.5	0	20	107	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	MS	24	0	20	120	74 - 135		
1,1,2-Trichloroethane	79-00-5	MS	22.2	0	20	111	82 - 126		
1,1-Dichloroethane	75-34-3	MS	20.1	0	20	101	78 - 124		
1,1-Dichloroethene	75-35-4	MS	20.6	0	20	103	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	MS	21.9	0	20	110	61 - 126		
1,2,3-Trichloropropane	96-18-4	MS	22.8	0	20	114	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	MS	23.7	0	20	118	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	MS	23.3	0	20	116	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	MS	21.6	0	20	108	59 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dibromoethane	106-93-4	MS	22.4	0	20	112	80 - 124		
1,2-Dichlorobenzene	95-50-1	MS	22.3	0	20	111	82 - 118		
1,2-Dichloroethane	107-06-2	MS	19.3	0	20	96.4	70 - 133		
1,2-Dichloropropane	78-87-5	MS	20.6	0	20	103	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	MS	23.6	0	20	118	76 - 125		
1,3-Dichlorobenzene	541-73-1	MS	21.8	0	20	109	81 - 118		
1,4-Dichlorobenzene	106-46-7	MS	21.8	0	20	109	81 - 116		
2-Butanone	78-93-3	MS	97.1	0	100	97.1	50 - 152		
2-Hexanone	591-78-6	MS	109	0	100	109	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	111	0	100	111	71 - 146		
Acetone	67-64-1	MS	87.4	0	100	87.4	40 - 151		
Benzene	71-43-2	MS	20.4	0	20	102	80 - 124		
Bromochloromethane	74-97-5	MS	21.2	0	20	106	73 - 117		
Bromodichloromethane	75-27-4	MS	21.7	0	20	108	79 - 126		
Bromoform	75-25-2	MS	21.8	0	20	109	70 - 123		
Bromomethane	74-83-9	MS	15.6	0	20	78	45 - 148		
Carbon Disulfide	75-15-0	MS	19.7	0	20	98.4	57 - 131		
Carbon Tetrachloride	56-23-5	MS	18.6	0	20	93.1	62 - 132		
Chlorobenzene	108-90-7	MS	20.9	0	20	104	85 - 117		
Chlorodibromomethane	124-48-1	MS	19.4	0	20	97.1	77 - 122		
Chloroethane	75-00-3	MS	19.9	0	20	99.7	51 - 142		
Chloroform	67-66-3	MS	19.8	0	20	98.9	78 - 122		
Chloromethane	74-87-3	MS	17.4	0	20	87.2	38 - 156		
cis-1,2-Dichloroethene	156-59-2	MS	20.6	0	20	103	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	MS	18.6	0	20	92.9	81 - 121		
Cyclohexane	110-82-7	MS	21.1	0	20	106	66 - 130		
Dichlorodifluoromethane	75-71-8	MS	17.6	0	20	88	17 - 166		
Ethylbenzene	100-41-4	MS	21.7	0	20	108	80 - 124		
Freon 113	76-13-1	MS	21	0	20	105	50 - 130		
Isopropylbenzene	98-82-8	MS	26	0	20	130*	73 - 129		
Methyl acetate	79-20-9	MS	18.3	0	20	91.4	70 - 130		
Methyl cyclohexane	108-87-2	MS	21.5	0	20	107	70 - 130		
Methyl t-Butyl Ether	1634-04-4	MS	20.2	0	20	101	69 - 115		
Methylene Chloride	75-09-2	MS	20.5	0	20	102	76 - 121		
mp-Xylene	108383/106423	MS	42.8	0	40	107	79 - 125		
o-Xylene	95-47-6	MS	21.5	0	20	107	79 - 124		
Styrene	100-42-5	MS	20	0	20	99.9	79 - 123		
Tetrachloroethene	127-18-4	MS	19.7	0	20	98.7	72 - 124		
Toluene	108-88-3	MS	21.5	0	20	107	80 - 125		
Total Xylenes	1330-20-7	MS	64.3	0	60	107	79 - 125		
trans-1,2-Dichloroethene	156-60-5	MS	20.1	0	20	100	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	MS	18.8	0	20	93.8	78 - 126		
Trichloroethene	79-01-6	MS	19.7	0	20	98.5	77 - 124		
Trichlorofluoromethane	75-69-4	MS	21.1	0	20	106	38 - 123		
Vinyl Chloride	75-01-4	MS	19.4	0	20	97	27 - 138		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	29.7	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	29.3	30	97.8	79 - 114	
Dibromofluoromethane	1868-53-7	MS	28.8	30	95.9	78 - 116	
Toluene-d8	2037-26-5	MS	29.4	30	98.1	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1355591	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Matrix Spike 3918175 (MS) 3392229002 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918176 (MSD) 3392229002 (non-Project Sample) For QC Batch 1355591

Matrix Spike 3918179 (MS) 3391543002 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike 3918182 (MS) 3391836014 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918183 (MSD) 3391836014 (non-Project Sample) For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	63.3	9	50	109	80 - 120		
Chloride	Cl	MSD	63.2	9	50	108	80 - 120	RPD 0.18 (Max-20)	
Nitrate-N	NO3	MS	44.6	40.30	5	NC	80 - 120		
Nitrate-N	NO3	MSD	44.2	40.30	5	NC	80 - 120	RPD 0.71 (Max-20)	
Sulfate	SO4	MS	637	601	50	NC	80 - 120		
Sulfate	SO4	MSD	633	601	50	NC	80 - 120	RPD 0.67 (Max-20)	

Matrix Spike 3918186 (MS) 3391888001 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	590	553	50	NC	80 - 120		

Method Blank 3918161 (MB) Created on 12/14/2024 06:33 For QC Batch 1355591

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918162 (LCS) Created on 12/14/2024 06:33 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	50.9		50	102	90 - 110		

Lab Control Standard 3918177 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.4		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3918178 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918180 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3918181 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918184 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.1		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.9		50	106	90 - 110		

Method Blank 3918185 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918187 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.5		50	105	90 - 110		

Method Blank 3918188 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3918206 (MS) 3392316006 For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918207 (MSD) 3392316006 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	36.1	7.50	25	114	80 - 120		
Chloride	Cl	MSD	36.3	7.50	25	115	80 - 120	RPD 0.53 (Max-20)	
Nitrate-N	NO3	MS	3.8	1.20	2.50	104	80 - 120		
Nitrate-N	NO3	MSD	3.8	1.20	2.50	104	80 - 120	RPD 0.24 (Max-20)	

Lab Control Standard 3918208 (LCS) Created on 12/14/2024 10:31 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	53		50	106	90 - 110		

Method Blank 3918209 (MB) Created on 12/14/2024 10:31 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1355602	Prep Method	N/A
Date	N/A	Analysis Method	SM2130B-2011
Tech.			

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Duplicate 3918203 (DUP) 3392202001 (non-Project Sample) For QC Batch 1355602

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	90	95	RPD 5.41	(Max-10)	

Method Blank 3918201 (MB) Created on 12/14/2024 09:38 For QC Batch 1355602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3918204 (MB) Created on 12/14/2024 09:38 For QC Batch 1355602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1356405	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392316001 3392316002 3392316003 3392316004 3392316006

Matrix Spike 3919384 (MS) 3392434001 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919385 (MSD) 3392434001 (non-Project Sample) For QC Batch 1356405

Matrix Spike 3919388 (MS) 3392379001 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	84.9	75.90	10	NC	80 - 120		
Nitrate-N	NO3	MS	7	6	1	NC	80 - 120		
Sulfate	SO4	MS	34.3	23.40	10	109	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3919391 (MS) 3392379002 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919392 (MSD) 3392379002 (non-Project Sample) For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	13.6	2.90	10	107	80 - 120		
Chloride	Cl	MSD	13.6	2.90	10	108	80 - 120	RPD 0.18 (Max-20)	
Nitrate-N	NO3	MS	7.4	6.50	1	NC	80 - 120		
Nitrate-N	NO3	MSD	7.4	6.50	1	NC	80 - 120	RPD 0.04 (Max-20)	
Sulfate	SO4	MS	42.4	32.20	10	102	80 - 120		
Sulfate	SO4	MSD	42.5	32.20	10	104	80 - 120	RPD 0.38 (Max-20)	

Matrix Spike 3919395 (MS) 3392396001 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	16.1	5.10	10	110	80 - 120		
Nitrate-N	NO3	MS	1.4	0.44	1	99.2	80 - 120		

Matrix Spike 3919398 (MS) 3392478003 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919399 (MSD) 3392478003 (non-Project Sample) For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	2.8	1.80	1	108	80 - 120		
Nitrate-N	NO3	MSD	2.8	1.80	1	106	80 - 120	RPD 0.53 (Max-20)	

Matrix Spike 3919402 (MS) 3392497002 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	196	189	10	NC	80 - 120		
Nitrate-N	NO3	MS	5.2	4.10	1	NC	80 - 120		

Method Blank 3919094 (MB) Created on 12/17/2024 06:37 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919095 (LCS) Created on 12/17/2024 06:37 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.7		50	101	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	101	90 - 110		
Sulfate	SO4	LCS	50.3		50	101	90 - 110		

Lab Control Standard 3919386 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.2		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.4		50	103	90 - 110		

Method Blank 3919387 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919389 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3919390 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919393 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

Method Blank 3919394 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919396 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.4		50	105	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3919397 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919400 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.5		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	105	90 - 110		
Sulfate	SO4	LCS	53.1		50	106	90 - 110		

Method Blank 3919401 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919403 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.6		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		
Sulfate	SO4	LCS	52.8		50	106	90 - 110		

Method Blank 3919404 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3919522 (MS) 3392316003 For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919523 (MSD) 3392316003 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	170	50.50	100	120	80 - 120		
Chloride	Cl	MSD	169	50.50	100	118	80 - 120	RPD 0.82 (Max-20)	
Nitrate-N	NO3	MS	39.2	27.80	10	114	80 - 120		
Nitrate-N	NO3	MSD	38.5	27.80	10	107	80 - 120	RPD 1.86 (Max-20)	
Sulfate	SO4	MS	1260	1160	100	NC	80 - 120		
Sulfate	SO4	MSD	1230	1160	100	NC	80 - 120	RPD 2 (Max-20)	

Lab Control Standard 3919524 (LCS) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.9		50	106	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

Method Blank 3919525 (MB) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3919526 (MS) 3392316006 For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	66.2	7.50	50	117	80 - 120		
Nitrate-N	NO3	MS	6.7	1.50	5	104	80 - 120		
Sulfate	SO4	MS	925	894	50	NC	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3919527 (LCS) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.6		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	105	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

Method Blank 3919528 (MB) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1356845	Prep Method	N/A
Date Tech.	N/A	Analysis Method	SM2540C-15

Associated Samples

3392316001 3392316002 3392316003 3392316004 3392316005

Duplicate 3920144 (DUP) 3392209001 (non-Project Sample) For QC Batch 1356845

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	412	408	RPD 0.98	(Max-5)	

Duplicate 3920145 (DUP) 3392209002 (non-Project Sample) For QC Batch 1356845

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	508	502	RPD 1.19	(Max-5)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3919927 (MB) Created on 12/18/2024 09:18 For QC Batch 1356845

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3919928 (LCS) Created on 12/18/2024 09:18 For QC Batch 1356845

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	493		500	98.6	90 - 110		

QC Batch

QC Batch	1356847	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3392316006

Duplicate 3920146 (DUP) 3392379001 (non-Project Sample) For QC Batch 1356847

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	512	508	RPD	0.78 (Max-5)	

Duplicate 3920147 (DUP) 3392379004 (non-Project Sample) For QC Batch 1356847

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	526	532	RPD	1.13 (Max-5)	

Method Blank 3919933 (MB) Created on 12/18/2024 09:20 For QC Batch 1356847

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3919934 (LCS) Created on 12/18/2024 09:20 For QC Batch 1356847

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	497		500	99.4	90 - 110		

QC Batch

QC Batch	1356895	Prep Method	N/A
Date	N/A	Analysis Method	S4500HB-11
Tech.			

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Duplicate 3920063 (DUP) 3391836012 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920067 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920071 (DUP) 3391890009 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP					

Duplicate 3920075 (DUP) 3391971001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.4170	8.4090	RPD	0.10 (Max-10)	

Duplicate 3920079 (DUP) 3392026001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2550	8.2470	RPD	0.10 (Max-10)	

Duplicate 3920083 (DUP) 3392026002 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2130	8.2280	RPD	0.18 (Max-10)	

Duplicate 3920087 (DUP) 3392161001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP					

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3920091 (DUP) 3392161011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.3470	8.3460	RPD	0.01 (Max-10)	

Duplicate 3920099 (DUP) 3392379005 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.56	8.5150	RPD	0.53 (Max-10)	

Duplicate 3920103 (DUP) 3392402001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920107 (DUP) 3392412001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920095 (DUP) 3392316001 For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2050	8.2550	RPD	0.61 (Max-10)	

QC Batch

QC Batch	1359622	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3392316001 3392316002 3392316003 3392316004
3392316005 3392316006

Duplicate 3922306 (DUP) 3392161007 (non-Project Sample) For QC Batch 1359622

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Acidity, Total	ACID-T	DUP	0	0	RPD	0 (Max-20)	ND

Method Blank 3922305 (MB) Created on 12/23/2024 08:53 For QC Batch 1359622

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3922308 (MB) Created on 12/23/2024 08:53 For QC Batch 1359622

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3922309 (DUP) 3392316004 For QC Batch 1359622

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Acidity, Total	ACID-T	DUP	40	49	RPD	20.20* (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3922311 (MB) Created on 12/23/2024 08:53 For QC Batch 1359622

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1359756	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3392316001 3392316002 3392316003 3392316004
3392316005 3392316006

Duplicate 3922691 (DUP) 3392161001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	210.64	203.12	RPD	3.63	(Max-20)	

Duplicate 3922695 (DUP) 3392161011 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	505.20	489.20	RPD	3.22	(Max-20)	

Duplicate 3922700 (DUP) 3392379005 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	274.52	270.04	RPD	1.65	(Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922701 (DUP) 3392402001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	122.64	120.24	RPD	1.98	(Max-20)	

Duplicate 3922705 (DUP) 3392589001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	68.48	67.16	RPD	1.95	(Max-20)	

Duplicate 3922713 (DUP) 3392641005 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	30.68	30.64	RPD	0.13	(Max-20)	

Duplicate 3922717 (DUP) 3392641015 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	29.40	29.20	RPD	0.68	(Max-20)	

Duplicate 3922721 (DUP) 3392641025 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	95.92	96.84	RPD	0.95	(Max-20)	

Duplicate 3922729 (DUP) 3392812006 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	210.28	210.40	RPD	0.06	(Max-20)	

Method Blank 3922687 (MB) Created on 12/23/2024 16:10 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922693 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3922696 (DUP) 3392316001 For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	314.04	302.40	RPD	3.78	(Max-20)	

Method Blank 3922698 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3922703 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922707 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922711 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922715 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922719 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922723 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922727 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922731 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1360529	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3392316001 3392316002 3392316003 3392316004
3392316005 3392316006

Duplicate 3922897 (DUP) 3392161010 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	1296	1300	RPD	0.31 (Max-10)	

Duplicate 3922899 (DUP) 3393195003 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	2003	2009	RPD	0.30 (Max-10)	

Duplicate 3922901 (DUP) 3392396004 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	1227	1222	RPD	0.41 (Max-10)	

Duplicate 3922903 (DUP) 3392847010 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	153.10	151.10	RPD	1.31 (Max-10)	

Duplicate 3922905 (DUP) 3392633001 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	232	232	RPD	0 (Max-10)	

Duplicate 3922907 (DUP) 3393095003 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	1099	1107	RPD	0.73 (Max-10)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392316001	MW-35S	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1358389
		N/A	N/A	N/A		SW846 8260D	1358219
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355602
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356845
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355591
		N/A	N/A	N/A		SW846 9056A	1356405
3392316002	MW-35D	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1358389
		N/A	N/A	N/A		SW846 8260D	1358219
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355602
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356845
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355591
		N/A	N/A	N/A		SW846 9056A	1356405
3392316003	MW-6S	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1358389
		N/A	N/A	N/A		SW846 8260D	1358219
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355602
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356845
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355591
		N/A	N/A	N/A		SW846 9056A	1356405
3392316004	MW-6D	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1358389
		N/A	N/A	N/A		SW846 8260D	1358219
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355602
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356845
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355591
		N/A	N/A	N/A		SW846 9056A	1356405

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392316005	MW-30	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1358389
		N/A	N/A	N/A		SW846 8260D	1358219
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355602
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356845
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355591
3392316006	MW-9S	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1358389
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1360491
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1362502
		N/A	N/A	N/A		SW846 8260D	1358219
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355602
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356847
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355591
		N/A	N/A	N/A		SW846 9056A	1356405
3392316007	TB-44	N/A	N/A	N/A		SW846 8260D	1358219

ALS

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3392316
Logged By: MJE
PM: EXP
ALS Quote #:
1 of 1

Client Name: Michael Baker Intl.
Address: 100 Airside Drive
Moon Twp., PA

Contact: C. Kupfer
Phone#: 412-269-6300
Project Name/#: Erie Coke Works
Bill To:
Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

	Container Type	G	G	P	P						
	Container Size	3 40 ml	1 500 ml	4 125 ml	2 1L						
	Preservative	HCl	~~UNP~~	HNO_3	~~UNP~~						
			MJE 12/14/24								

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.	
	Enter Number of Containers Per Sample or Field Results Below.						3	x1	2	2	2	
1	MW-35S	12/13/24	945		G	GW	x	x	x	x	x	MJE 12/14/24
2	MW-35D		1100				x	x	x	x	x	
3	MW-6S		930				x	x	x	x	x	
4	MW-6D		1050				x	x	x	x	x	
5	MW-30		930				x	x	x	x	x	
6	MW-9S		1055				x	x	x	x	x	
7	TB-44	-	-		-		x					
8												
9												
10												

Circle Sample Collector: ALS Tech / Client
Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/13/24	1300	1	Dave Gaviglia / MBI	2	Fedex
12/14/24	841	3	Fedex	4	
		5		6	
		7		8	
		9		10	

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Temp Taken By: Therm ID: WO Temp (°C)
Receipt Info completed by: Y N NA
Cooler Custod
Sample Custo
Received on Ic
Coolers & San
Correct Contai
Sample Label/C
Adequate Samp
VOA only: Trip I
NJ ≤ 4 days?
Courier/Tracking #

Temp By: MJE | WO Temp (°C): 1° | Therm ID: 569

Receipt Info Completed By:	MJE
Cooler Custody Seal Intact	Y N (NA)
Sample Custody Seal Intact	Y N (NA)
Received on Ice	(Y) N NA
Cooler & Samples Intact	(Y) N
Correct Containers Provided	(Y) N
Sample Label/COC Agree	(Y) N
Adequate Sample Volumes	(Y) N
CR6 Samples Filtered	Y N (NA)
OP Samples Filtered	Y N (NA)
VOA Trip Blank	(Y) N NA
NJ≤ 4 Days?	
Rad Screen (uCi)	
Courier/Tracking #:	283227551101
SDWA Compliance	Y (N)
PWSID	
WV Containers 0-6°C	Y N (NA)

? NO YES
:S, list below:
contact:
ct:

Sample(s) for Ra
Reportable SDW
SDWA State of C
PWSID #
PWS Contact: *No Sampler-MJE 12/14/24

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks
MW-9S is considered "hot"

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type:

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

Rev 07.06.2023

283227551101

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3392812
Report ID 385520 on 2/4/2025 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 18, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3392812001	MW-9D	Ground Water	12/17/2024 09:00	12/18/2024 09:42	CBC	Collected By Client
3392812002	MW-27S	Ground Water	12/17/2024 09:20	12/18/2024 09:42	CBC	Collected By Client
3392812003	MW-27D	Ground Water	12/17/2024 11:10	12/18/2024 09:42	CBC	Collected By Client
3392812004	MW-36S	Ground Water	12/17/2024 09:20	12/18/2024 09:42	CBC	Collected By Client
3392812005	MW-36D	Ground Water	12/17/2024 11:10	12/18/2024 09:42	CBC	Collected By Client
3392812006	MW-42	Ground Water	12/17/2024 15:00	12/18/2024 09:42	CBC	Collected By Client
3392812007	TB-45	Ground Water	12/17/2024 00:00	12/18/2024 09:42	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

P1 This report was revised to include Selenium results for ALS#3392812001. EXP 2/4/25

Sample Notations

Lab ID	Sample ID		
3392812006	MW-42	**S1**	This sample was analyzed at a dilution in the 8260 volatiles analysis due to matrix. Reporting limits were adjusted accordingly.

Result Notations

Notation Ref.	
E	Result reported exceeds instrument calibration
1	Chloroethane was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift/difference was reported at 24.51%. Acceptable limits are +/-20%.
2	The QC sample type LCS for method SW846 8270E was outside the control limits for the analyte N-Nitroso-di-n-propylamine. The % Recovery was reported as 0 and the control limits were 46 to 133.
3	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
4	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
5	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
6	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2,3,4,6-Tetrachlorophenol. The % Recovery was reported as 131 and the control limits were 80 to 120.
7	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2,4-Dinitrophenol. The % Recovery was reported as 71 and the control limits were 80 to 120.
8	The QC sample type LCS for method SW846 8260D was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 135 and the control limits were 70 to 130.
9	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 122 and the control limits were 80 to 120.
10	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 126 and the control limits were 80 to 120.
11	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 122 and the control limits were 80 to 120.

Detected Results Summary

Client Sample ID	MW-9D	Collected	12/17/2024 09:00
Lab Sample ID	3392812001	Lab Receipt	12/18/2024 09:42

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.026	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.025	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	292	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	283	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0023J	mg/L	0.0056	0.0020	SW846 6010C	#
Cobalt, Dissolved	0.0027J	mg/L	0.0056	0.0020	SW846 6010C	#
Cobalt, Total	0.0037J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0048J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0081J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.59	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.72	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	106	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	104	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.16	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.15	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	6.3	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	6.8	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	221	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	223	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	22.1	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	49.5	ug/L	1.5	0.25	SW846 8270E	#
4-Nitroaniline	4.7	ug/L	3.0	0.25	SW846 8270E	#
Acenaphthene	18.0	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	54.3	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	9.7	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	2.3	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.99J	ug/L	1.5	0.26	SW846 8270E	#
Benzo(b)fluoranthene	1.1J	ug/L	1.5	0.30	SW846 8270E	#
Benzo(g,h,i)perylene	0.72J	ug/L	1.5	0.36	SW846 8270E	#
Benzo(k)fluoranthene	0.72J	ug/L	1.5	0.34	SW846 8270E	#
Biphenyl	13.2	ug/L	3.0	0.25	SW846 8270E	#
bis(2-Ethylhexyl)phthalate	0.63J	ug/L	3.0	0.47	SW846 8270E	#
Butylbenzylphthalate	0.55J	ug/L	3.0	0.31	SW846 8270E	#
Carbazole	154	ug/L	60.0	5.0	SW846 8270E	#
Chrysene	2.1	ug/L	1.5	0.26	SW846 8270E	#
Dibenzo(a,h)anthracene	0.59J	ug/L	1.5	0.32	SW846 8270E	#
Dibenzofuran	77.3	ug/L	3.0	0.25	SW846 8270E	#
Di-n-Butylphthalate	0.45J	ug/L	3.0	0.37	SW846 8270E	#
Di-n-Octylphthalate	1.6J	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	21.3	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	86.9	ug/L	1.5	0.25	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	0.72J	ug/L	1.5	0.31	SW846 8270E	#
mp-Cresol	30.1	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	1040	ug/L	30.0	13.0	SW846 8270E	#

Detected Results Summary

Sample - MW-9D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
SEMIVOLATILES (cont.)						
o-Cresol	26.1	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	67.6	ug/L	1.5	0.25	SW846 8270E	#
Phenol	12.3	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	12.8	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	37.8	ug/L	20.0	5.0	SW846 8260D	#
1,3,5-Trimethylbenzene	11.8J	ug/L	20.0	4.0	SW846 8260D	#
Benzene	491	ug/L	20.0	4.6	SW846 8260D	#
Bromomethane	27.8	ug/L	20.0	7.8	SW846 8260D	#
Carbon Disulfide	5.8J	ug/L	20.0	4.6	SW846 8260D	#
Ethylbenzene	16.2J	ug/L	20.0	6.8	SW846 8260D	#
mp-Xylene	60.1	ug/L	40.0	10.4	SW846 8260D	#
o-Xylene	35.9	ug/L	20.0	6.6	SW846 8260D	#
Styrene	11.0J	ug/L	20.0	4.8	SW846 8260D	#
Toluene	60.2	ug/L	20.0	4.6	SW846 8260D	#
Total Xylenes	96.0	ug/L	60.0	13.2	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	45	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	409	mg/L	5	5	SM2320B-2011	#
Chloride	400	mg/L	5.0	2.2	SW846 9056A	#
pH	8.18	pH_Units			S4500HB-11	#
Specific Conductance	3490	umhos/cm	50	1	SW846 9050A	#
Sulfate	971	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2070	mg/L	25	25	SM2540C-15	#
Turbidity	28	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-27S	Collected	12/17/2024 09:20
Lab Sample ID	3392812002	Lab Receipt	12/18/2024 09:42

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0064J	mg/L	0.018	0.0060	SW846 6010C	#
Barium, Dissolved	0.021J	mg/L	0.022	0.0072	SW846 6010C	#
Barium, Total	0.022	mg/L	0.022	0.0072	SW846 6010C	#
Calcium, Dissolved	612	mg/L	0.22	0.072	SW846 6010C	#
Calcium, Total	606	mg/L	0.22	0.072	SW846 6010C	#
Chromium, Total	0.0051J	mg/L	0.011	0.0040	SW846 6010C	#
Copper, Total	0.0096J	mg/L	0.022	0.0072	SW846 6010C	#
Iron, Dissolved	0.71	mg/L	0.13	0.044	SW846 6010C	#
Iron, Total	0.86	mg/L	0.13	0.044	SW846 6010C	#
Magnesium, Dissolved	63.2	mg/L	0.22	0.072	SW846 6010C	#
Magnesium, Total	67.2	mg/L	0.22	0.072	SW846 6010C	#
Manganese, Dissolved	0.74	mg/L	0.011	0.0040	SW846 6010C	#
Manganese, Total	0.82	mg/L	0.011	0.0040	SW846 6010C	#
Potassium, Dissolved	2.9	mg/L	1.1	0.36	SW846 6010C	#
Potassium, Total	3.8	mg/L	1.1	0.36	SW846 6010C	#
Selenium, Total	0.034J	mg/L	0.044	0.015	SW846 6010C	#
Sodium, Dissolved	121	mg/L	1.1	0.36	SW846 6010C	#
Sodium, Total	133	mg/L	1.1	0.36	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	475	ug/L	33.8	5.6	SW846 8270E	#
2-Methylnaphthalene	69.4	ug/L	1.7	0.28	SW846 8270E	#
Acenaphthene	4.3	ug/L	1.7	0.28	SW846 8270E	#
Acenaphthylene	50.1	ug/L	1.7	0.28	SW846 8270E	#
Acetophenone	11.2	ug/L	3.4	1.0	SW846 8270E	#
Anthracene	12.1	ug/L	1.7	0.28	SW846 8270E	#
Benzo(a)anthracene	1.5J	ug/L	1.7	0.32	SW846 8270E	#
Benzo(a)pyrene	0.87J	ug/L	1.7	0.29	SW846 8270E	#
Benzo(b)fluoranthene	0.90J	ug/L	1.7	0.34	SW846 8270E	#
Benzo(k)fluoranthene	0.78J	ug/L	1.7	0.38	SW846 8270E	#
Biphenyl	6.1	ug/L	3.4	0.28	SW846 8270E	#
Carbazole	120	ug/L	3.4	0.28	SW846 8270E	#
Chrysene	1.4J	ug/L	1.7	0.29	SW846 8270E	#
Dibenzofuran	25.6	ug/L	3.4	0.28	SW846 8270E	#
Fluoranthene	12.1	ug/L	1.7	0.28	SW846 8270E	#
Fluorene	35.8	ug/L	1.7	0.28	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	0.48J	ug/L	1.7	0.35	SW846 8270E	#
mp-Cresol	193	ug/L	3.4	0.56	SW846 8270E	#
Naphthalene	1600	ug/L	16.9	7.3	SW846 8270E	#
o-Cresol	325	ug/L	33.8	5.6	SW846 8270E	#
Phenanthrene	31.2	ug/L	1.7	0.28	SW846 8270E	#
Phenol	186	ug/L	9.0	0.56	SW846 8270E	#
Pyrene	7.8	ug/L	1.7	0.28	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	41.1J	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	21.2J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	1640	ug/L	50.0	11.5	SW846 8260D	#

Detected Results Summary

Sample - MW-27S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Bromomethane	19.8J	ug/L	50.0	19.5	SW846 8260D	#
Ethylbenzene	17.3J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	162	ug/L	100	26.0	SW846 8260D	#
o-Xylene	74.6	ug/L	50.0	16.5	SW846 8260D	#
Styrene	23.8J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	221	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	236	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	39	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	377	mg/L	5	5	SM2320B-2011	#
Chloride	36.0	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	4.7	mg/L	2.5	0.80	SW846 9056A	#
pH	8.14	pH_Units			S4500HB-11	#
Specific Conductance	3210	umhos/cm	50	1	SW846 9050A	#
Sulfate	1540	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2660	mg/L	25	25	SM2540C-15	#
Turbidity	12	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-27D	Collected	12/17/2024 11:10
Lab Sample ID	3392812003	Lab Receipt	12/18/2024 09:42

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Total	0.0083J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.028	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0097	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.062	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.047	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	299	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	282	mg/L	0.11	0.036	SW846 6010C	#
Copper, Total	0.0038J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	1.6	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	1.5	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	46.5	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	39.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.55	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.55	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	2.5	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.021J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	66.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	68.6	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	543	ug/L	30.0	5.0	SW846 8270E	#
2-Methylnaphthalene	482	ug/L	15.0	2.5	SW846 8270E	#
Acenaphthene	14.8	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	200	ug/L	15.0	2.5	SW846 8270E	#
Anthracene	23.6	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	0.83J	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.26J	ug/L	1.5	0.26	SW846 8270E	#
Biphenyl	40.1	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	456	ug/L	30.0	2.5	SW846 8270E	#
Chrysene	0.71J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	97.4	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	10.8	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	103	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	364	ug/L	30.0	5.0	SW846 8270E	#
Naphthalene	12500	ug/L	1500	650	SW846 8270E	#
o-Cresol	682	ug/L	30.0	5.0	SW846 8270E	#
Phenanthrene	87.3	ug/L	1.5	0.25	SW846 8270E	#
Phenol	196	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	6.7	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	227	ug/L	100	25.0	SW846 8260D	#
1,3,5-Trimethylbenzene	112	ug/L	100	20.0	SW846 8260D	#
Benzene	5090	ug/L	100	23.0	SW846 8260D	#
Ethylbenzene	53.5J	ug/L	100	34.0	SW846 8260D	#
mp-Xylene	358	ug/L	200	52.0	SW846 8260D	#
o-Xylene	245	ug/L	100	33.0	SW846 8260D	#

Detected Results Summary

Sample - MW-27D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Styrene	56.5J	ug/L	100	24.0	SW846 8260D	#
Toluene	496	ug/L	100	23.0	SW846 8260D	#
Total Xylenes	603	ug/L	300	66.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	24	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	392	mg/L	5	5	SM2320B-2011	#
Chloride	18.3	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	2.0J	mg/L	2.5	0.80	SW846 9056A	#
pH	8.24	pH_Units			S4500HB-11	#
Specific Conductance	2290	umhos/cm	50	1	SW846 9050A	#
Sulfate	647	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1360	mg/L	25	25	SM2540C-15	#
Turbidity	9.3	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-36S	Collected	12/17/2024 09:20
Lab Sample ID	3392812004	Lab Receipt	12/18/2024 09:42

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0073J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.024	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.024	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	566	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	563	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0024J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0028J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0070J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0089J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	5.9	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	6.2	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	81.1	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	80.9	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.6	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.6	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	8.5	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	8.6	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.016J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	30.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	31.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	311	ug/L	30.0	5.0	SW846 8270E	#
2-Methylnaphthalene	791	ug/L	15.0	2.5	SW846 8270E	#
Acenaphthene	15.2	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	417	ug/L	15.0	2.5	SW846 8270E	#
Anthracene	23.0	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	2.2	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.94J	ug/L	1.5	0.26	SW846 8270E	#
Benzo(b)fluoranthene	0.91J	ug/L	1.5	0.30	SW846 8270E	#
Benzo(g,h,i)perylene	0.41J	ug/L	1.5	0.36	SW846 8270E	#
Benzo(k)fluoranthene	0.94J	ug/L	1.5	0.34	SW846 8270E	#
Biphenyl	64.8	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	572	ug/L	30.0	2.5	SW846 8270E	#
Chrysene	1.8	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	138	ug/L	30.0	2.5	SW846 8270E	#
Fluoranthene	17.2	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	136	ug/L	15.0	2.5	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	0.48J	ug/L	1.5	0.31	SW846 8270E	#
mp-Cresol	292	ug/L	30.0	5.0	SW846 8270E	#
Naphthalene	8780	ug/L	15.0	6.5	SW846 8270E	#
o-Cresol	839	ug/L	30.0	5.0	SW846 8270E	#
Phenanthrene	116	ug/L	1.5	0.25	SW846 8270E	#
Phenol	62.5	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	9.3	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	203J	ug/L	500	125	SW846 8260D	#

Detected Results Summary

Sample - MW-36S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
1,3,5-Trimethylbenzene	135J	ug/L	500	100	SW846 8260D	#
Benzene	7910	ug/L	500	115	SW846 8260D	#
Ethylbenzene	219J	ug/L	500	170	SW846 8260D	#
mp-Xylene	1950	ug/L	1000	260	SW846 8260D	#
o-Xylene	551	ug/L	500	165	SW846 8260D	#
Styrene	209J	ug/L	500	120	SW846 8260D	#
Toluene	1430	ug/L	500	115	SW846 8260D	#
Total Xylenes	2500	ug/L	1500	330	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	50	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	368	mg/L	5	5	SM2320B-2011	#
Chloride	22.0	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	28.7	mg/L	2.5	0.80	SW846 9056A	#
pH	8.13	pH_Units			S4500HB-11	#
Specific Conductance	3450	umhos/cm	50	1	SW846 9050A	#
Sulfate	1400	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2430	mg/L	25	25	SM2540C-15	#
Turbidity	50	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-36D	Collected	12/17/2024 11:10
Lab Sample ID	3392812005	Lab Receipt	12/18/2024 09:42

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0073J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.015	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.015	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	529	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	520	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0027J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0026J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0064J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0086J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.80	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.81	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	91.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	91.2	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.57	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.55	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.1	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.018J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	38.4	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	38.9	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	183	ug/L	30.0	5.0	SW846 8270E	#
2-Methylnaphthalene	828	ug/L	15.0	2.5	SW846 8270E	#
Acenaphthene	12.6	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	409	ug/L	15.0	2.5	SW846 8270E	#
Acetophenone	12.2	ug/L	3.0	0.90	SW846 8270E	#
Anthracene	18.2	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	1.2J	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.40J	ug/L	1.5	0.26	SW846 8270E	#
Benzo(b)fluoranthene	0.45J	ug/L	1.5	0.30	SW846 8270E	#
Benzo(k)fluoranthene	0.37J	ug/L	1.5	0.34	SW846 8270E	#
Biphenyl	61.4	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	513	ug/L	30.0	2.5	SW846 8270E	#
Chrysene	0.86J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	138	ug/L	30.0	2.5	SW846 8270E	#
Fluoranthene	12.7	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	143	ug/L	15.0	2.5	SW846 8270E	#
mp-Cresol	72.1	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	11200	ug/L	1500	650	SW846 8270E	#
o-Cresol	308	ug/L	30.0	5.0	SW846 8270E	#
Phenanthrene	99.7	ug/L	1.5	0.25	SW846 8270E	#
Phenol	23.6	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	7.3	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	179J	ug/L	500	125	SW846 8260D	#
1,3,5-Trimethylbenzene	123J	ug/L	500	100	SW846 8260D	#

Detected Results Summary

Sample - MW-36D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Benzene	6260	ug/L	500	115	SW846 8260D	#
mp-Xylene	1690	ug/L	1000	260	SW846 8260D	#
o-Xylene	504	ug/L	500	165	SW846 8260D	#
Styrene	188J	ug/L	500	120	SW846 8260D	#
Toluene	2260	ug/L	500	115	SW846 8260D	#
Total Xylenes	2200	ug/L	1500	330	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	51	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	358	mg/L	5	5	SM2320B-2011	#
Chloride	27.5	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	30.7	mg/L	2.5	0.80	SW846 9056A	#
pH	8.17	pH_Units			S4500HB-11	#
Specific Conductance	3500	umhos/cm	50	1	SW846 9050A	#
Sulfate	1290	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2320	mg/L	25	25	SM2540C-15	#
Turbidity	3.4	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-42	Collected	12/17/2024 15:00
Lab Sample ID	3392812006	Lab Receipt	12/18/2024 09:42

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.78	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.0050J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.012	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.017	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	45.9	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	52.3	mg/L	0.11	0.036	SW846 6010C	#
Iron, Total	1.0	mg/L	0.067	0.022	SW846 6010C	#
Lead, Total	0.0027J	mg/L	0.0067	0.0022	SW846 6010C	#
Magnesium, Dissolved	5.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	6.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.0033J	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.029	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.9	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	4.1	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.0080J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	43.5	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	45.2	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	0.58J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	0.32J	ug/L	1.5	0.25	SW846 8270E	#
Carbazole	0.48J	ug/L	3.0	0.25	SW846 8270E	#
Naphthalene	7.7	ug/L	1.5	0.65	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	5	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	210	mg/L	5	5	SM2320B-2011	#
Chloride	1.4J	mg/L	2.0	0.88	SW846 9056A	#
Nitrate-N	0.64J	mg/L	1.0	0.32	SW846 9056A	#
pH	8.46	pH_Units			S4500HB-11	#
Specific Conductance	416	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	14.6	mg/L	2.0	1.4	SW846 9056A	#
Total Dissolved Solids	280	mg/L	25	25	SM2540C-15	#
Turbidity	28	NTU	0.30	0.30	SM2130B-2011	#

Results

Client Sample ID	MW-9D	Collected	12/17/2024 09:00
Lab Sample ID	3392812001	Lab Receipt	12/18/2024 09:42

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:14	MSY	E1
Barium, Dissolved	0.026	P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Barium, Total	0.025	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Calcium, Dissolved	292	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Calcium, Total	283	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Chromium, Dissolved	0.0021J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Chromium, Total	0.0023J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Cobalt, Dissolved	0.0027J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:27	MSY	G1
Cobalt, Total	0.0037J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Copper, Dissolved	0.0048J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Copper, Total	0.0081J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Iron, Dissolved	0.59	P1	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Iron, Total	0.72	P1	mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Magnesium, Dissolved	106	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Magnesium, Total	104	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Manganese, Dissolved	0.16	P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Manganese, Total	0.15	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:34	AJN	G
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:17	AJN	E
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Potassium, Dissolved	6.3	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Potassium, Total	6.8	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 10:14	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Sodium, Dissolved	221	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Sodium, Total	223	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:01	MSY	E1

Results

Client Sample ID	MW-9D	Collected	12/17/2024 09:00
Lab Sample ID	3392812001	Lab Receipt	12/18/2024 09:42

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,4-Dimethylphenol	22.1	P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	01/02/2025 19:59	CGS	D
2-Methylnaphthalene	49.5	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	01/02/2025 19:59	CGS	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
3,3-Dichlorobenzidine	ND	ND,P1	ug/L	16.0	8.5	SW846 8270E	1	01/02/2025 19:59	CGS	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	01/02/2025 19:59	CGS	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
4-Nitroaniline	4.7	P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	01/02/2025 19:59	CGS	D
Acenaphthene	18.0	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Acenaphthylene	54.3	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	01/02/2025 19:59	CGS	D
Anthracene	9.7	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Benzo(a)anthracene	2.3	P1	ug/L	1.5	0.28	SW846 8270E	1	01/02/2025 19:59	CGS	D
Benzo(a)pyrene	0.99J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	01/02/2025 19:59	CGS	D
Benzo(b)fluoranthene	1.1J	J,P1	ug/L	1.5	0.30	SW846 8270E	1	01/02/2025 19:59	CGS	D
Benzo(g,h,i)perylene	0.72J	J,P1	ug/L	1.5	0.36	SW846 8270E	1	01/02/2025 19:59	CGS	D
Benzo(k)fluoranthene	0.72J	J,P1	ug/L	1.5	0.34	SW846 8270E	1	01/02/2025 19:59	CGS	D
Biphenyl	13.2	P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
bis(2-Ethylhexyl)phthalate	0.63J	J,P1	ug/L	3.0	0.47	SW846 8270E	1	01/02/2025 19:59	CGS	D
Butylbenzylphthalate	0.55J	J,P1	ug/L	3.0	0.31	SW846 8270E	1	01/02/2025 19:59	CGS	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	01/02/2025 19:59	CGS	D
Carbazole	154	P1	ug/L	60.0	5.0	SW846 8270E	20	01/02/2025 20:24	CGS	D

Results

Client Sample ID	MW-9D	Collected	12/17/2024 09:00
Lab Sample ID	3392812001	Lab Receipt	12/18/2024 09:42

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	2.1	P1	ug/L	1.5	0.26	SW846 8270E	1	01/02/2025 19:59	CGS	D
Dibenzo(a,h)anthracene	0.59J	J,P1	ug/L	1.5	0.32	SW846 8270E	1	01/02/2025 19:59	CGS	D
Dibenzofuran	77.3	P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Di-n-Butylphthalate	0.45J	J,P1	ug/L	3.0	0.37	SW846 8270E	1	01/02/2025 19:59	CGS	D
Di-n-Octylphthalate	1.6J	J,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Fluoranthene	21.3	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Fluorene	86.9	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	01/02/2025 19:59	CGS	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	01/02/2025 19:59	CGS	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Indeno(1,2,3-cd)pyrene	0.72J	J,P1	ug/L	1.5	0.31	SW846 8270E	1	01/02/2025 19:59	CGS	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	01/02/2025 19:59	CGS	D
mp-Cresol	30.1	P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
Naphthalene	1040	P1	ug/L	30.0	13.0	SW846 8270E	20	01/02/2025 20:24	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	01/02/2025 19:59	CGS	D
N-Nitroso-di-n-propylamine	ND	ND,2,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	01/02/2025 19:59	CGS	D
o-Cresol	26.1	P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	01/02/2025 19:59	CGS	D
Phenanthrene	67.6	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Phenol	12.3	P1	ug/L	8.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
Pyrene	12.8	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	80%	23 – 131	01/02/2025 19:59	
2,4,6-Tribromophenol	118-79-6	70.6%	23 – 131	01/02/2025 20:24	
2-Fluorobiphenyl	321-60-8	61.1%	24 – 116	01/02/2025 19:59	
2-Fluorobiphenyl	321-60-8	62.9%	24 – 116	01/02/2025 20:24	
2-Fluorophenol	367-12-4	46.7%	10 – 85	01/02/2025 19:59	
2-Fluorophenol	367-12-4	46.2%	10 – 85	01/02/2025 20:24	
Nitrobenzene-d5	4165-60-0	68.7%	32 – 125	01/02/2025 19:59	
Nitrobenzene-d5	4165-60-0	72.7%	32 – 125	01/02/2025 20:24	
Phenol-d5	4165-62-2	37.4%	7 – 56	01/02/2025 19:59	
Phenol-d5	4165-62-2	37%	7 – 56	01/02/2025 20:24	
Terphenyl-d14	98904-43-9	45.3%	41 – 145	01/02/2025 19:59	
Terphenyl-d14	98904-43-9	45.2%	41 – 145	01/02/2025 20:24	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	20.0	4.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	20.0	6.8	SW846 8260D	20	12/30/2024 22:28	PDK	B

Results

Client Sample ID	MW-9D	Collected	12/17/2024 09:00
Lab Sample ID	3392812001	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND,P1	ug/L	20.0	6.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,1-Dichloroethane	ND	ND,P1	ug/L	20.0	5.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,1-Dichloroethene	ND	ND,P1	ug/L	20.0	5.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	40.0	18.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2,3-Trichloropropane	ND	ND,P1	ug/L	40.0	12.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	40.0	16.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2,4-Trimethylbenzene	37.8	P1	ug/L	20.0	5.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	140	30.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2-Dibromoethane	ND	ND,P1	ug/L	20.0	5.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2-Dichlorobenzene	ND	ND,P1	ug/L	20.0	7.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2-Dichloroethane	ND	ND,P1	ug/L	20.0	6.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2-Dichloropropane	ND	ND,P1	ug/L	20.0	4.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,3,5-Trimethylbenzene	11.8J	J,P1	ug/L	20.0	4.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,3-Dichlorobenzene	ND	ND,P1	ug/L	20.0	5.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,4-Dichlorobenzene	ND	ND,P1	ug/L	20.0	5.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
2-Butanone	ND	ND,P1	ug/L	200	36.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
2-Hexanone	ND	ND,P1	ug/L	100	26.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	100	30.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
Acetone	ND	ND,P1	ug/L	200	62.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
Benzene	491	P1	ug/L	20.0	4.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Bromochloromethane	ND	ND,P1	ug/L	20.0	6.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
Bromodichloromethane	ND	ND,P1	ug/L	20.0	5.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
Bromoform	ND	ND,P1	ug/L	20.0	8.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
Bromomethane	27.8	P1	ug/L	20.0	7.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Carbon Disulfide	5.8J	J,P1	ug/L	20.0	4.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Carbon Tetrachloride	ND	ND,P1	ug/L	20.0	6.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
Chlorobenzene	ND	ND,P1	ug/L	20.0	3.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Chlorodibromomethane	ND	ND,P1	ug/L	20.0	9.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
Chloroethane	ND	ND,1,P1	ug/L	20.0	6.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Chloroform	ND	ND,P1	ug/L	20.0	4.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
Chloromethane	ND	ND,P1	ug/L	20.0	6.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	20.0	6.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	20.0	6.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
Cyclohexane	ND	ND,P1	ug/L	20.0	5.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Dichlorodifluoromethane	ND	ND,P1	ug/L	20.0	6.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Ethylbenzene	16.2J	J,P1	ug/L	20.0	6.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Freon 113	ND	ND,P1	ug/L	20.0	5.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
Isopropylbenzene	ND	ND,P1	ug/L	20.0	4.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
Methyl acetate	ND	ND,P1	ug/L	40.0	6.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
Methyl cyclohexane	ND	ND,P1	ug/L	20.0	6.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
Methyl t-Butyl Ether	ND	ND,P1	ug/L	20.0	6.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Methylene Chloride	ND	ND,P1	ug/L	20.0	9.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
mp-Xylene	60.1	P1	ug/L	40.0	10.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
o-Xylene	35.9	P1	ug/L	20.0	6.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Styrene	11.0J	J,P1	ug/L	20.0	4.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Tetrachloroethene	ND	ND,P1	ug/L	20.0	7.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
Toluene	60.2	P1	ug/L	20.0	4.6	SW846 8260D	20	12/30/2024 22:28	PDK	B

Results

Client Sample ID	MW-9D	Collected	12/17/2024 09:00
Lab Sample ID	3392812001	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	96.0	P1	ug/L	60.0	13.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	20.0	5.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	20.0	5.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Trichloroethene	ND	ND,P1	ug/L	20.0	6.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Trichlorofluoromethane	ND	ND,P1	ug/L	20.0	4.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Vinyl Chloride	ND	ND,P1	ug/L	20.0	6.0	SW846 8260D	20	12/30/2024 22:28	PDK	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/30/2024 22:28	
4-Bromofluorobenzene	460-00-4	92.3%	79 – 114	12/30/2024 22:28	
Dibromofluoromethane	1868-53-7	100%	78 – 116	12/30/2024 22:28	
Toluene-d8	2037-26-5	99.2%	76 – 127	12/30/2024 22:28	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	45	3,P1	mg/L	5	5	SM2310B-2011	1	12/27/2024 13:47	RAG	I
Alkalinity, Total	409	4,P1	mg/L	5	5	SM2320B-2011	1	12/28/2024 03:36	JXK	I
Chloride	400	P1	mg/L	5.0	2.2	SW846 9056A	5	12/18/2024 17:28	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/18/2024 17:28	J1W	I
pH	8.18	5,P1	pH_Units			S4500HB-11	1	12/28/2024 03:36	JXK	I
Specific Conductance	3490	P1	umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	971	P1	mg/L	20.0	14.0	SW846 9056A	20	12/19/2024 18:53	J1W	I
Total Dissolved Solids	2070	P1	mg/L	25	25	SM2540C-15	1	12/20/2024 16:00	RAG	I
Turbidity	28	P1	NTU	0.30	0.30	SM2130B-2011	1	12/19/2024 08:12	NPF	I

Results

Client Sample ID	MW-27S	Collected	12/17/2024 09:20
Lab Sample ID	3392812002	Lab Receipt	12/18/2024 09:42

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.22	0.072	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.22	0.072	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.044	0.020	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Arsenic, Dissolved	0.0064J	J,P1	mg/L	0.018	0.0060	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.018	0.0074	SW846 6010C	2	12/30/2024 10:15	MSY	E1
Barium, Dissolved	0.021J	J,P1	mg/L	0.022	0.0072	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Barium, Total	0.022	P1	mg/L	0.022	0.0072	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0088	0.0028	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0088	0.0028	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0015	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0044	0.0015	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Calcium, Dissolved	612	P1	mg/L	0.22	0.072	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Calcium, Total	606	P1	mg/L	0.22	0.072	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.011	0.0040	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Chromium, Total	0.0051J	J,P1	mg/L	0.011	0.0040	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.011	0.0040	SW846 6010C	2	01/03/2025 09:33	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.011	0.0040	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.022	0.0072	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Copper, Total	0.0096J	J,P1	mg/L	0.022	0.0072	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Iron, Dissolved	0.71	P1	mg/L	0.13	0.044	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Iron, Total	0.86	P1	mg/L	0.13	0.044	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.013	0.0044	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.013	0.0044	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Magnesium, Dissolved	63.2	P1	mg/L	0.22	0.072	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Magnesium, Total	67.2	P1	mg/L	0.22	0.072	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Manganese, Dissolved	0.74	P1	mg/L	0.011	0.0040	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Manganese, Total	0.82	P1	mg/L	0.011	0.0040	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:35	AJN	G
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:16	AJN	E
Nickel, Dissolved	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Potassium, Dissolved	2.9	P1	mg/L	1.1	0.36	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Potassium, Total	3.8	P1	mg/L	1.1	0.36	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Selenium, Total	0.034J	J,P1	mg/L	0.044	0.015	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0088	0.0028	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0088	0.0028	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Sodium, Dissolved	121	P1	mg/L	1.1	0.36	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Sodium, Total	133	P1	mg/L	1.1	0.36	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.011	0.0040	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.011	0.0040	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	12/26/2024 12:04	MSY	E1

Results

Client Sample ID	MW-27S	Collected	12/17/2024 09:20
Lab Sample ID	3392812002	Lab Receipt	12/18/2024 09:42

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
1,4-Dioxane	ND	ND,P1	ug/L	3.4	0.53	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,6,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,4-Dimethylphenol	475	P1	ug/L	33.8	5.6	SW846 8270E	10	01/02/2025 15:23	CGS	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.8	4.8	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
2-Chlorophenol	ND	ND,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.8	3.4	SW846 8270E	1	12/30/2024 17:29	CGS	D
2-Methylnaphthalene	69.4	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.4	0.29	SW846 8270E	1	12/30/2024 17:29	CGS	D
2-Nitrophenol	ND	ND,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
3,3-Dichlorobenzidine	ND	ND,P1	ug/L	18.0	9.6	SW846 8270E	1	12/30/2024 17:29	CGS	D
3-Nitroaniline	ND	ND,P1	ug/L	3.4	0.53	SW846 8270E	1	12/30/2024 17:29	CGS	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
4-Chloroaniline	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
4-Nitroaniline	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
4-Nitrophenol	ND	ND,P1	ug/L	3.4	1.2	SW846 8270E	1	12/30/2024 17:29	CGS	D
Acenaphthene	4.3	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Acenaphthylene	50.1	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Acetophenone	11.2	P1	ug/L	3.4	1.0	SW846 8270E	1	12/30/2024 17:29	CGS	D
Anthracene	12.1	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Atrazine	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Benzaldehyde	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Benzo(a)anthracene	1.5J	J,P1	ug/L	1.7	0.32	SW846 8270E	1	12/30/2024 17:29	CGS	D
Benzo(a)pyrene	0.87J	J,P1	ug/L	1.7	0.29	SW846 8270E	1	12/30/2024 17:29	CGS	D
Benzo(b)fluoranthene	0.90J	J,P1	ug/L	1.7	0.34	SW846 8270E	1	12/30/2024 17:29	CGS	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.7	0.41	SW846 8270E	1	12/30/2024 17:29	CGS	D
Benzo(k)fluoranthene	0.78J	J,P1	ug/L	1.7	0.38	SW846 8270E	1	12/30/2024 17:29	CGS	D
Biphenyl	6.1	P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.4	0.53	SW846 8270E	1	12/30/2024 17:29	CGS	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.4	0.35	SW846 8270E	1	12/30/2024 17:29	CGS	D
Caprolactam	ND	ND,P1	ug/L	3.4	0.41	SW846 8270E	1	12/30/2024 17:29	CGS	D
Carbazole	120	P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D

Results

Client Sample ID	MW-27S	Collected	12/17/2024 09:20
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	1.4J	J,P1	ug/L	1.7	0.29	SW846 8270E	1	12/30/2024 17:29	CGS	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.7	0.36	SW846 8270E	1	12/30/2024 17:29	CGS	D
Dibenzofuran	25.6	P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Diethylphthalate	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Dimethylphthalate	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.4	0.42	SW846 8270E	1	12/30/2024 17:29	CGS	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Fluoranthene	12.1	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Fluorene	35.8	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.4	0.32	SW846 8270E	1	12/30/2024 17:29	CGS	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.4	0.48	SW846 8270E	1	12/30/2024 17:29	CGS	D
Hexachloroethane	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Indeno(1,2,3-cd)pyrene	0.48J	J,P1	ug/L	1.7	0.35	SW846 8270E	1	12/30/2024 17:29	CGS	D
Isophorone	ND	ND,P1	ug/L	3.4	0.42	SW846 8270E	1	12/30/2024 17:29	CGS	D
mp-Cresol	193	P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
Naphthalene	1600	P1	ug/L	16.9	7.3	SW846 8270E	10	01/02/2025 15:23	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.4	0.65	SW846 8270E	1	12/30/2024 17:29	CGS	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.4	0.36	SW846 8270E	1	12/30/2024 17:29	CGS	D
o-Cresol	325	P1	ug/L	33.8	5.6	SW846 8270E	10	01/02/2025 15:23	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	9.0	1.6	SW846 8270E	1	12/30/2024 17:29	CGS	D
Phenanthrene	31.2	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Phenol	186	P1	ug/L	9.0	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
Pyrene	7.8	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	85.8%	23 – 131	12/30/2024 17:29	
2,4,6-Tribromophenol	118-79-6	88.8%	23 – 131	01/02/2025 15:23	
2-Fluorobiphenyl	321-60-8	75.3%	24 – 116	12/30/2024 17:29	
2-Fluorobiphenyl	321-60-8	74.4%	24 – 116	01/02/2025 15:23	
2-Fluorophenol	367-12-4	62.4%	10 – 85	12/30/2024 17:29	
2-Fluorophenol	367-12-4	56.6%	10 – 85	01/02/2025 15:23	
Nitrobenzene-d5	4165-60-0	81%	32 – 125	12/30/2024 17:29	
Nitrobenzene-d5	4165-60-0	79.2%	32 – 125	01/02/2025 15:23	
Phenol-d5	4165-62-2	47.1%	7 – 56	12/30/2024 17:29	
Phenol-d5	4165-62-2	46.1%	7 – 56	01/02/2025 15:23	
Terphenyl-d14	98904-43-9	57.2%	41 – 145	12/30/2024 17:29	
Terphenyl-d14	98904-43-9	46.9%	41 – 145	01/02/2025 15:23	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	50.0	17.0	SW846 8260D	50	12/30/2024 22:48	PDK	B

Results

Client Sample ID	MW-27S	Collected	12/17/2024 09:20
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,1-Dichloroethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,1-Dichloroethene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	100	46.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2,3-Trichloropropane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	100	41.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2,4-Trimethylbenzene	41.1J	J,P1	ug/L	50.0	12.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	350	75.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2-Dibromoethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2-Dichlorobenzene	ND	ND,P1	ug/L	50.0	19.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2-Dichloroethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2-Dichloropropane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,3,5-Trimethylbenzene	21.2J	J,P1	ug/L	50.0	10.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,3-Dichlorobenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,4-Dichlorobenzene	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
2-Butanone	ND	ND,P1	ug/L	500	90.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
2-Hexanone	ND	ND,P1	ug/L	250	65.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	250	75.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Acetone	ND	ND,P1	ug/L	500	155	SW846 8260D	50	12/30/2024 22:48	PDK	B
Benzene	1640	P1	ug/L	50.0	11.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Bromochloromethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Bromodichloromethane	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Bromoform	ND	ND,P1	ug/L	50.0	20.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Bromomethane	19.8J	J,P1	ug/L	50.0	19.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Carbon Disulfide	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Carbon Tetrachloride	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Chlorobenzene	ND	ND,P1	ug/L	50.0	9.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Chlorodibromomethane	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Chloroethane	ND	ND,1,P1	ug/L	50.0	16.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Chloroform	ND	ND,P1	ug/L	50.0	10.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Chloromethane	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Cyclohexane	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Dichlorodifluoromethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Ethylbenzene	17.3J	J,P1	ug/L	50.0	17.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Freon 113	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Isopropylbenzene	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Methyl acetate	ND	ND,P1	ug/L	100	16.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Methyl cyclohexane	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Methyl t-Butyl Ether	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Methylene Chloride	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
mp-Xylene	162	P1	ug/L	100	26.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
o-Xylene	74.6	P1	ug/L	50.0	16.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Styrene	23.8J	J,P1	ug/L	50.0	12.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Tetrachloroethene	ND	ND,P1	ug/L	50.0	17.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Toluene	221	P1	ug/L	50.0	11.5	SW846 8260D	50	12/30/2024 22:48	PDK	B

Results

Client Sample ID	MW-27S	Collected	12/17/2024 09:20
Lab Sample ID	3392812002	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	236	P1	ug/L	150	33.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Trichloroethene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Trichlorofluoromethane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Vinyl Chloride	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/30/2024 22:48	PDK	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99%	62 – 133	12/30/2024 22:48	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	12/30/2024 22:48	
Dibromofluoromethane	1868-53-7	95.6%	78 – 116	12/30/2024 22:48	
Toluene-d8	2037-26-5	99.1%	76 – 127	12/30/2024 22:48	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	39	3,P1	mg/L	5	5	SM2310B-2011	1	12/27/2024 13:47	RAG	I
Alkalinity, Total	377	4,P1	mg/L	5	5	SM2320B-2011	1	12/28/2024 03:48	JXK	I
Chloride	36.0	P1	mg/L	5.0	2.2	SW846 9056A	5	12/18/2024 17:40	J1W	I
Nitrate-N	4.7	P1	mg/L	2.5	0.80	SW846 9056A	5	12/18/2024 17:40	J1W	I
pH	8.14	5,P1	pH_Units			S4500HB-11	1	12/28/2024 03:48	JXK	I
Specific Conductance	3210	P1	umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	1540	P1	mg/L	20.0	14.0	SW846 9056A	20	12/19/2024 19:04	J1W	I
Total Dissolved Solids	2660	P1	mg/L	25	25	SM2540C-15	1	12/20/2024 16:00	RAG	I
Turbidity	12	P1	NTU	0.30	0.30	SM2130B-2011	1	12/19/2024 08:12	NPF	I

Results

Client Sample ID	MW-27D	Collected	12/17/2024 11:10
Lab Sample ID	3392812003	Lab Receipt	12/18/2024 09:42

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Antimony, Total	0.0083J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Arsenic, Dissolved	0.028	P1	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Arsenic, Total	0.0097	P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:16	MSY	E1
Barium, Dissolved	0.062	P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Barium, Total	0.047	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Calcium, Dissolved	299	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Calcium, Total	282	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:34	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Copper, Total	0.0038J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Iron, Dissolved	1.6	P1	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Iron, Total	1.5	P1	mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Magnesium, Dissolved	46.5	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Magnesium, Total	39.7	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Manganese, Dissolved	0.55	P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Manganese, Total	0.55	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:30	AJN	G
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:04	AJN	E
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Potassium, Dissolved	3.7	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Potassium, Total	2.5	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Selenium, Total	0.021J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Sodium, Dissolved	66.2	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Sodium, Total	68.6	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:13	MSY	E1

Results

Client Sample ID	MW-27D	Collected	12/17/2024 11:10
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,6,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,4-Dimethylphenol	543	P1	ug/L	30.0	5.0	SW846 8270E	10	12/27/2024 12:05	CGS	D
2,4-Dinitrophenol	ND	ND,7,P1	ug/L	6.0	4.3	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/26/2024 15:12	CGS	D
2-Methylnaphthalene	482	P1	ug/L	15.0	2.5	SW846 8270E	10	12/27/2024 12:05	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/26/2024 15:12	CGS	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
3,3-Dichlorobenzidine	ND	ND,P1	ug/L	16.0	8.5	SW846 8270E	1	12/26/2024 15:12	CGS	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 15:12	CGS	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/26/2024 15:12	CGS	D
Acenaphthene	14.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Acenaphthylene	200	P1	ug/L	15.0	2.5	SW846 8270E	10	12/27/2024 12:05	CGS	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/26/2024 15:12	CGS	D
Anthracene	23.6	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Benzo(a)anthracene	0.83J	J,P1	ug/L	1.5	0.28	SW846 8270E	1	12/26/2024 15:12	CGS	D
Benzo(a)pyrene	0.26J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 15:12	CGS	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/26/2024 15:12	CGS	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/26/2024 15:12	CGS	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/26/2024 15:12	CGS	D
Biphenyl	40.1	P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 15:12	CGS	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/26/2024 15:12	CGS	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/26/2024 15:12	CGS	D
Carbazole	456	P1	ug/L	30.0	2.5	SW846 8270E	10	12/27/2024 12:05	CGS	D

Results

Client Sample ID	MW-27D	Collected	12/17/2024 11:10
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.71J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 15:12	CGS	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/26/2024 15:12	CGS	D
Dibenzofuran	97.4	P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 15:12	CGS	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Fluoranthene	10.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Fluorene	103	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/26/2024 15:12	CGS	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/26/2024 15:12	CGS	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/26/2024 15:12	CGS	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 15:12	CGS	D
mp-Cresol	364	P1	ug/L	30.0	5.0	SW846 8270E	10	12/27/2024 12:05	CGS	D
Naphthalene	12500	P1	ug/L	1500	650	SW846 8270E	1000	12/27/2024 12:31	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/26/2024 15:12	CGS	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/26/2024 15:12	CGS	D
o-Cresol	682	P1	ug/L	30.0	5.0	SW846 8270E	10	12/27/2024 12:05	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/26/2024 15:12	CGS	D
Phenanthrene	87.3	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Phenol	196	P1	ug/L	8.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
Pyrene	6.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	68.4%	23 – 131	12/26/2024 15:12	
2-Fluorobiphenyl	321-60-8	79.4%	24 – 116	12/26/2024 15:12	
2-Fluorophenol	367-12-4	36.8%	10 – 85	12/26/2024 15:12	
Nitrobenzene-d5	4165-60-0	107%	32 – 125	12/26/2024 15:12	
Phenol-d5	4165-62-2	34.1%	7 – 56	12/26/2024 15:12	
Terphenyl-d14	98904-43-9	61%	41 – 145	12/26/2024 15:12	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	100	22.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	100	34.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	100	33.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	100	28.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	100	29.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	200	93.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	200	60.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	200	82.0	SW846 8260D	100	12/30/2024 23:07	PDK	A

Results

Client Sample ID	MW-27D	Collected	12/17/2024 11:10
Lab Sample ID	3392812003	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	227	P1	ug/L	100	25.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	700	150	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	100	28.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	100	38.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	100	32.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	100	24.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,3,5-Trimethylbenzene	112	P1	ug/L	100	20.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	100	25.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	100	27.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
2-Butanone	ND	ND,P1	ug/L	1000	180	SW846 8260D	100	12/30/2024 23:07	PDK	A
2-Hexanone	ND	ND,P1	ug/L	500	130	SW846 8260D	100	12/30/2024 23:07	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	500	150	SW846 8260D	100	12/30/2024 23:07	PDK	A
Acetone	ND	ND,P1	ug/L	1000	310	SW846 8260D	100	12/30/2024 23:07	PDK	A
Benzene	5090	P1	ug/L	100	23.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Bromochloromethane	ND	ND,P1	ug/L	100	32.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	100	27.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Bromoform	ND	ND,P1	ug/L	100	40.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Bromomethane	ND	ND,P1	ug/L	100	39.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	100	23.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	100	31.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	100	19.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	100	45.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Chloroethane	ND	ND,1,P1	ug/L	100	33.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Chloroform	ND	ND,P1	ug/L	100	21.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Chloromethane	ND	ND,P1	ug/L	100	31.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	100	32.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	100	31.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Cyclohexane	ND	ND,P1	ug/L	100	29.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	100	33.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Ethylbenzene	53.5J	J,P1	ug/L	100	34.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Freon 113	ND	ND,P1	ug/L	100	26.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	100	22.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Methyl acetate	ND	ND,P1	ug/L	200	32.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	100	33.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	100	45.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
mp-Xylene	358	P1	ug/L	200	52.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
o-Xylene	245	P1	ug/L	100	33.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Styrene	56.5J	J,P1	ug/L	100	24.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Tetrachloroethene	ND	ND,P1	ug/L	100	35.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Toluene	496	P1	ug/L	100	23.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Total Xylenes	603	P1	ug/L	300	66.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	100	26.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	100	29.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Trichloroethene	ND	ND,P1	ug/L	100	33.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	100	24.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	100	30.0	SW846 8260D	100	12/30/2024 23:07	PDK	A

Results

Client Sample ID	MW-27D	Collected	12/17/2024 11:10
Lab Sample ID	3392812003	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.8%	62 – 133	12/30/2024 23:07	
4-Bromofluorobenzene	460-00-4	96.7%	79 – 114	12/30/2024 23:07	
Dibromofluoromethane	1868-53-7	95.2%	78 – 116	12/30/2024 23:07	
Toluene-d8	2037-26-5	98.8%	76 – 127	12/30/2024 23:07	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	24	3,P1	mg/L	5	5	SM2310B-2011	1	12/27/2024 13:47	RAG	I
Alkalinity, Total	392	4,P1	mg/L	5	5	SM2320B-2011	1	12/28/2024 04:00	JXK	I
Chloride	18.3	P1	mg/L	5.0	2.2	SW846 9056A	5	12/18/2024 17:51	J1W	I
Nitrate-N	2.0J	J,P1	mg/L	2.5	0.80	SW846 9056A	5	12/18/2024 17:51	J1W	I
pH	8.24	5,P1	pH_Units			S4500HB-11	1	12/28/2024 04:00	JXK	I
Specific Conductance	2290	P1	umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	647	P1	mg/L	10.0	7.0	SW846 9056A	10	12/19/2024 19:16	J1W	I
Total Dissolved Solids	1360	P1	mg/L	25	25	SM2540C-15	1	12/20/2024 16:00	RAG	I
Turbidity	9.3	P1	NTU	0.30	0.30	SM2130B-2011	1	12/19/2024 08:12	NPF	I

Results

Client Sample ID	MW-36S	Collected	12/17/2024 09:20
Lab Sample ID	3392812004	Lab Receipt	12/18/2024 09:42

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Arsenic, Dissolved	0.0073J	J,P1	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:18	MSY	E1
Barium, Dissolved	0.024	P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Barium, Total	0.024	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Calcium, Dissolved	566	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Calcium, Total	563	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Chromium, Dissolved	0.0024J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Chromium, Total	0.0028J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:36	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Copper, Dissolved	0.0070J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Copper, Total	0.0089J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Iron, Dissolved	5.9	P1	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Iron, Total	6.2	P1	mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Magnesium, Dissolved	81.1	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Magnesium, Total	80.9	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Manganese, Dissolved	1.6	P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Manganese, Total	1.6	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:32	AJN	G
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:08	AJN	E
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Potassium, Dissolved	8.5	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Potassium, Total	8.6	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Selenium, Total	0.016J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Sodium, Dissolved	30.6	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Sodium, Total	31.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:14	MSY	E1

Results

Client Sample ID	MW-36S	Collected	12/17/2024 09:20
Lab Sample ID	3392812004	Lab Receipt	12/18/2024 09:42

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,6,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,4-Dimethylphenol	311	P1	ug/L	30.0	5.0	SW846 8270E	10	01/02/2025 15:49	CGS	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/30/2024 17:55	CGS	D
2-Methylnaphthalene	791	E,P1	ug/L	15.0	2.5	SW846 8270E	10	01/02/2025 15:49	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/30/2024 17:55	CGS	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
3,3-Dichlorobenzidine	ND	ND,P1	ug/L	16.0	8.5	SW846 8270E	1	12/30/2024 17:55	CGS	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/30/2024 17:55	CGS	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/30/2024 17:55	CGS	D
Acenaphthene	15.2	P1	ug/L	1.5	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Acenaphthylene	417	P1	ug/L	15.0	2.5	SW846 8270E	10	01/02/2025 15:49	CGS	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/30/2024 17:55	CGS	D
Anthracene	23.0	P1	ug/L	1.5	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Benzo(a)anthracene	2.2	P1	ug/L	1.5	0.28	SW846 8270E	1	12/30/2024 17:55	CGS	D
Benzo(a)pyrene	0.94J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/30/2024 17:55	CGS	D
Benzo(b)fluoranthene	0.91J	J,P1	ug/L	1.5	0.30	SW846 8270E	1	12/30/2024 17:55	CGS	D
Benzo(g,h,i)perylene	0.41J	J,P1	ug/L	1.5	0.36	SW846 8270E	1	12/30/2024 17:55	CGS	D
Benzo(k)fluoranthene	0.94J	J,P1	ug/L	1.5	0.34	SW846 8270E	1	12/30/2024 17:55	CGS	D
Biphenyl	64.8	P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/30/2024 17:55	CGS	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/30/2024 17:55	CGS	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/30/2024 17:55	CGS	D
Carbazole	572	P1	ug/L	30.0	2.5	SW846 8270E	10	01/02/2025 15:49	CGS	D

Results

Client Sample ID	MW-36S	Collected	12/17/2024 09:20
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	1.8	P1	ug/L	1.5	0.26	SW846 8270E	1	12/30/2024 17:55	CGS	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/30/2024 17:55	CGS	D
Dibenzofuran	138	P1	ug/L	30.0	2.5	SW846 8270E	10	01/02/2025 15:49	CGS	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/30/2024 17:55	CGS	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Fluoranthene	17.2	P1	ug/L	1.5	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Fluorene	136	P1	ug/L	15.0	2.5	SW846 8270E	10	01/02/2025 15:49	CGS	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/30/2024 17:55	CGS	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/30/2024 17:55	CGS	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Indeno(1,2,3-cd)pyrene	0.48J	J,P1	ug/L	1.5	0.31	SW846 8270E	1	12/30/2024 17:55	CGS	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/30/2024 17:55	CGS	D
mp-Cresol	292	P1	ug/L	30.0	5.0	SW846 8270E	10	01/02/2025 15:49	CGS	D
Naphthalene	8780	P1	ug/L	15.0	6.5	SW846 8270E	10	01/02/2025 15:49	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/30/2024 17:55	CGS	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/30/2024 17:55	CGS	D
o-Cresol	839	P1	ug/L	30.0	5.0	SW846 8270E	10	01/02/2025 15:49	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/30/2024 17:55	CGS	D
Phenanthrene	116	P1	ug/L	1.5	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Phenol	62.5	P1	ug/L	8.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
Pyrene	9.3	P1	ug/L	1.5	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	81.1%	23 – 131	12/30/2024 17:55	
2,4,6-Tribromophenol	118-79-6	84.4%	23 – 131	01/02/2025 15:49	
2-Fluorobiphenyl	321-60-8	75.5%	24 – 116	12/30/2024 17:55	
2-Fluorobiphenyl	321-60-8	68.3%	24 – 116	01/02/2025 15:49	
2-Fluorophenol	367-12-4	54.5%	10 – 85	12/30/2024 17:55	
2-Fluorophenol	367-12-4	48.5%	10 – 85	01/02/2025 15:49	
Nitrobenzene-d5	4165-60-0	108%	32 – 125	12/30/2024 17:55	
Nitrobenzene-d5	4165-60-0	78.1%	32 – 125	01/02/2025 15:49	
Phenol-d5	4165-62-2	40%	7 – 56	12/30/2024 17:55	
Phenol-d5	4165-62-2	38.4%	7 – 56	01/02/2025 15:49	
Terphenyl-d14	98904-43-9	56.2%	41 – 145	12/30/2024 17:55	
Terphenyl-d14	98904-43-9	47.1%	41 – 145	01/02/2025 15:49	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	500	110	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	500	170	SW846 8260D	500	12/27/2024 19:07	ILY	A

Results

Client Sample ID	MW-36S	Collected	12/17/2024 09:20
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,1-Dichloroethane	ND	ND,P1	ug/L	500	140	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,1-Dichloroethene	ND	ND,P1	ug/L	500	145	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	1000	465	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	1000	300	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	1000	410	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2,4-Trimethylbenzene	203J	J,P1	ug/L	500	125	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	3500	750	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2-Dibromoethane	ND	ND,P1	ug/L	500	140	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	500	190	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2-Dichloroethane	ND	ND,P1	ug/L	500	160	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2-Dichloropropane	ND	ND,P1	ug/L	500	120	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,3,5-Trimethylbenzene	135J	J,P1	ug/L	500	100	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	500	125	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	500	135	SW846 8260D	500	12/27/2024 19:07	ILY	A
2-Butanone	ND	ND,P1	ug/L	5000	900	SW846 8260D	500	12/27/2024 19:07	ILY	A
2-Hexanone	ND	ND,P1	ug/L	2500	650	SW846 8260D	500	12/27/2024 19:07	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	2500	750	SW846 8260D	500	12/27/2024 19:07	ILY	A
Acetone	ND	ND,P1	ug/L	5000	1550	SW846 8260D	500	12/27/2024 19:07	ILY	A
Benzene	7910	P1	ug/L	500	115	SW846 8260D	500	12/27/2024 19:07	ILY	A
Bromochloromethane	ND	ND,P1	ug/L	500	160	SW846 8260D	500	12/27/2024 19:07	ILY	A
Bromodichloromethane	ND	ND,P1	ug/L	500	135	SW846 8260D	500	12/27/2024 19:07	ILY	A
Bromoform	ND	ND,P1	ug/L	500	200	SW846 8260D	500	12/27/2024 19:07	ILY	A
Bromomethane	ND	ND,P1	ug/L	500	195	SW846 8260D	500	12/27/2024 19:07	ILY	A
Carbon Disulfide	ND	ND,P1	ug/L	500	115	SW846 8260D	500	12/27/2024 19:07	ILY	A
Carbon Tetrachloride	ND	ND,P1	ug/L	500	155	SW846 8260D	500	12/27/2024 19:07	ILY	A
Chlorobenzene	ND	ND,P1	ug/L	500	95.0	SW846 8260D	500	12/27/2024 19:07	ILY	A
Chlorodibromomethane	ND	ND,P1	ug/L	500	225	SW846 8260D	500	12/27/2024 19:07	ILY	A
Chloroethane	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:07	ILY	A
Chloroform	ND	ND,P1	ug/L	500	105	SW846 8260D	500	12/27/2024 19:07	ILY	A
Chloromethane	ND	ND,P1	ug/L	500	155	SW846 8260D	500	12/27/2024 19:07	ILY	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	500	160	SW846 8260D	500	12/27/2024 19:07	ILY	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	500	155	SW846 8260D	500	12/27/2024 19:07	ILY	A
Cyclohexane	ND	ND,P1	ug/L	500	145	SW846 8260D	500	12/27/2024 19:07	ILY	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:07	ILY	A
Ethylbenzene	219J	J,P1	ug/L	500	170	SW846 8260D	500	12/27/2024 19:07	ILY	A
Freon 113	ND	ND,P1	ug/L	500	130	SW846 8260D	500	12/27/2024 19:07	ILY	A
Isopropylbenzene	ND	ND,P1	ug/L	500	110	SW846 8260D	500	12/27/2024 19:07	ILY	A
Methyl acetate	ND	ND,8,P1	ug/L	1000	160	SW846 8260D	500	12/27/2024 19:07	ILY	A
Methyl cyclohexane	ND	ND,P1	ug/L	500	150	SW846 8260D	500	12/27/2024 19:07	ILY	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:07	ILY	A
Methylene Chloride	ND	ND,P1	ug/L	500	225	SW846 8260D	500	12/27/2024 19:07	ILY	A
mp-Xylene	1950	P1	ug/L	1000	260	SW846 8260D	500	12/27/2024 19:07	ILY	A
o-Xylene	551	P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:07	ILY	A
Styrene	209J	J,P1	ug/L	500	120	SW846 8260D	500	12/27/2024 19:07	ILY	A
Tetrachloroethene	ND	ND,P1	ug/L	500	175	SW846 8260D	500	12/27/2024 19:07	ILY	A
Toluene	1430	P1	ug/L	500	115	SW846 8260D	500	12/27/2024 19:07	ILY	A

Results

Client Sample ID	MW-36S	Collected	12/17/2024 09:20
Lab Sample ID	3392812004	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	2500	P1	ug/L	1500	330	SW846 8260D	500	12/27/2024 19:07	ILY	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	500	130	SW846 8260D	500	12/27/2024 19:07	ILY	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	500	145	SW846 8260D	500	12/27/2024 19:07	ILY	A
Trichloroethene	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:07	ILY	A
Trichlorofluoromethane	ND	ND,P1	ug/L	500	120	SW846 8260D	500	12/27/2024 19:07	ILY	A
Vinyl Chloride	ND	ND,P1	ug/L	500	150	SW846 8260D	500	12/27/2024 19:07	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 – 133	12/27/2024 19:07	
4-Bromofluorobenzene	460-00-4	97.1%	79 – 114	12/27/2024 19:07	
Dibromofluoromethane	1868-53-7	103%	78 – 116	12/27/2024 19:07	
Toluene-d8	2037-26-5	106%	76 – 127	12/27/2024 19:07	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	50	3,P1	mg/L	5	5	SM2310B-2011	1	12/27/2024 13:47	RAG	I
Alkalinity, Total	368	4,P1	mg/L	5	5	SM2320B-2011	1	12/28/2024 04:13	JXK	I
Chloride	22.0	P1	mg/L	5.0	2.2	SW846 9056A	5	12/18/2024 18:49	J1W	I
Nitrate-N	28.7	P1	mg/L	2.5	0.80	SW846 9056A	5	12/18/2024 18:49	J1W	I
pH	8.13	5,P1	pH_Units			S4500HB-11	1	12/28/2024 04:13	JXK	I
Specific Conductance	3450	P1	umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	1400	P1	mg/L	20.0	14.0	SW846 9056A	20	12/19/2024 19:27	J1W	I
Total Dissolved Solids	2430	P1	mg/L	25	25	SM2540C-15	1	12/20/2024 17:15	RAG	I
Turbidity	50	P1	NTU	0.30	0.30	SM2130B-2011	1	12/19/2024 08:12	NPF	I

Results

Client Sample ID	MW-36D	Collected	12/17/2024 11:10
Lab Sample ID	3392812005	Lab Receipt	12/18/2024 09:42

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Arsenic, Dissolved	0.0073J	J,P1	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:23	MSY	E1
Barium, Dissolved	0.015	P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Barium, Total	0.015	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Calcium, Dissolved	529	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Calcium, Total	520	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Chromium, Dissolved	0.0027J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Chromium, Total	0.0026J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:37	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Copper, Dissolved	0.0064J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Copper, Total	0.0086J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Iron, Dissolved	0.80	P1	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Iron, Total	0.81	P1	mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Magnesium, Dissolved	91.6	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Magnesium, Total	91.2	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Manganese, Dissolved	0.57	P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Manganese, Total	0.55	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:31	AJN	G
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:06	AJN	E
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Potassium, Dissolved	3.1	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Potassium, Total	3.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Selenium, Total	0.018J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Sodium, Dissolved	38.4	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Sodium, Total	38.9	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:15	MSY	E1

Results

Client Sample ID	MW-36D	Collected	12/17/2024 11:10
Lab Sample ID	3392812005	Lab Receipt	12/18/2024 09:42

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,6,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,4-Dimethylphenol	183	P1	ug/L	30.0	5.0	SW846 8270E	10	12/27/2024 12:57	CGS	D
2,4-Dinitrophenol	ND	ND,7,P1	ug/L	6.0	4.3	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/26/2024 15:38	CGS	D
2-Methylnaphthalene	828	P1	ug/L	15.0	2.5	SW846 8270E	10	12/27/2024 12:57	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/26/2024 15:38	CGS	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
3,3-Dichlorobenzidine	ND	ND,P1	ug/L	16.0	8.5	SW846 8270E	1	12/26/2024 15:38	CGS	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 15:38	CGS	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/26/2024 15:38	CGS	D
Acenaphthene	12.6	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Acenaphthylene	409	P1	ug/L	15.0	2.5	SW846 8270E	10	12/27/2024 12:57	CGS	D
Acetophenone	12.2	P1	ug/L	3.0	0.90	SW846 8270E	1	12/26/2024 15:38	CGS	D
Anthracene	18.2	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Benzo(a)anthracene	1.2J	J,P1	ug/L	1.5	0.28	SW846 8270E	1	12/26/2024 15:38	CGS	D
Benzo(a)pyrene	0.40J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 15:38	CGS	D
Benzo(b)fluoranthene	0.45J	J,P1	ug/L	1.5	0.30	SW846 8270E	1	12/26/2024 15:38	CGS	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/26/2024 15:38	CGS	D
Benzo(k)fluoranthene	0.37J	J,P1	ug/L	1.5	0.34	SW846 8270E	1	12/26/2024 15:38	CGS	D
Biphenyl	61.4	P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 15:38	CGS	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/26/2024 15:38	CGS	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/26/2024 15:38	CGS	D
Carbazole	513	P1	ug/L	30.0	2.5	SW846 8270E	10	12/27/2024 12:57	CGS	D

Results

Client Sample ID	MW-36D	Collected	12/17/2024 11:10
Lab Sample ID	3392812005	Lab Receipt	12/18/2024 09:42

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.86J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 15:38	CGS	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/26/2024 15:38	CGS	D
Dibenzofuran	138	P1	ug/L	30.0	2.5	SW846 8270E	10	12/27/2024 12:57	CGS	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 15:38	CGS	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Fluoranthene	12.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Fluorene	143	P1	ug/L	15.0	2.5	SW846 8270E	10	12/27/2024 12:57	CGS	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/26/2024 15:38	CGS	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/26/2024 15:38	CGS	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/26/2024 15:38	CGS	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 15:38	CGS	D
mp-Cresol	72.1	P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
Naphthalene	11200	P1	ug/L	1500	650	SW846 8270E	1000	12/27/2024 13:22	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/26/2024 15:38	CGS	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/26/2024 15:38	CGS	D
o-Cresol	308	P1	ug/L	30.0	5.0	SW846 8270E	10	12/27/2024 12:57	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/26/2024 15:38	CGS	D
Phenanthrene	99.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Phenol	23.6	P1	ug/L	8.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
Pyrene	7.3	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	66.3%	23 – 131	12/26/2024 15:38	
2-Fluorobiphenyl	321-60-8	71.4%	24 – 116	12/26/2024 15:38	
2-Fluorophenol	367-12-4	34.3%	10 – 85	12/26/2024 15:38	
Nitrobenzene-d5	4165-60-0	95.3%	32 – 125	12/26/2024 15:38	
Phenol-d5	4165-62-2	28.6%	7 – 56	12/26/2024 15:38	
Terphenyl-d14	98904-43-9	48.4%	41 – 145	12/26/2024 15:38	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	500	110	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	500	170	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,1-Dichloroethane	ND	ND,P1	ug/L	500	140	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,1-Dichloroethene	ND	ND,P1	ug/L	500	145	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	1000	465	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	1000	300	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	1000	410	SW846 8260D	500	12/27/2024 19:27	ILY	A

Results

Client Sample ID	MW-36D	Collected	12/17/2024 11:10
Lab Sample ID	3392812005	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	179J	J,P1	ug/L	500	125	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	3500	750	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2-Dibromoethane	ND	ND,P1	ug/L	500	140	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	500	190	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2-Dichloroethane	ND	ND,P1	ug/L	500	160	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2-Dichloropropane	ND	ND,P1	ug/L	500	120	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,3,5-Trimethylbenzene	123J	J,P1	ug/L	500	100	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	500	125	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	500	135	SW846 8260D	500	12/27/2024 19:27	ILY	A
2-Butanone	ND	ND,P1	ug/L	5000	900	SW846 8260D	500	12/27/2024 19:27	ILY	A
2-Hexanone	ND	ND,P1	ug/L	2500	650	SW846 8260D	500	12/27/2024 19:27	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	2500	750	SW846 8260D	500	12/27/2024 19:27	ILY	A
Acetone	ND	ND,P1	ug/L	5000	1550	SW846 8260D	500	12/27/2024 19:27	ILY	A
Benzene	6260	P1	ug/L	500	115	SW846 8260D	500	12/27/2024 19:27	ILY	A
Bromochloromethane	ND	ND,P1	ug/L	500	160	SW846 8260D	500	12/27/2024 19:27	ILY	A
Bromodichloromethane	ND	ND,P1	ug/L	500	135	SW846 8260D	500	12/27/2024 19:27	ILY	A
Bromoform	ND	ND,P1	ug/L	500	200	SW846 8260D	500	12/27/2024 19:27	ILY	A
Bromomethane	ND	ND,P1	ug/L	500	195	SW846 8260D	500	12/27/2024 19:27	ILY	A
Carbon Disulfide	ND	ND,P1	ug/L	500	115	SW846 8260D	500	12/27/2024 19:27	ILY	A
Carbon Tetrachloride	ND	ND,P1	ug/L	500	155	SW846 8260D	500	12/27/2024 19:27	ILY	A
Chlorobenzene	ND	ND,P1	ug/L	500	95.0	SW846 8260D	500	12/27/2024 19:27	ILY	A
Chlorodibromomethane	ND	ND,P1	ug/L	500	225	SW846 8260D	500	12/27/2024 19:27	ILY	A
Chloroethane	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:27	ILY	A
Chloroform	ND	ND,P1	ug/L	500	105	SW846 8260D	500	12/27/2024 19:27	ILY	A
Chloromethane	ND	ND,P1	ug/L	500	155	SW846 8260D	500	12/27/2024 19:27	ILY	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	500	160	SW846 8260D	500	12/27/2024 19:27	ILY	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	500	155	SW846 8260D	500	12/27/2024 19:27	ILY	A
Cyclohexane	ND	ND,P1	ug/L	500	145	SW846 8260D	500	12/27/2024 19:27	ILY	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:27	ILY	A
Ethylbenzene	ND	ND,P1	ug/L	500	170	SW846 8260D	500	12/27/2024 19:27	ILY	A
Freon 113	ND	ND,P1	ug/L	500	130	SW846 8260D	500	12/27/2024 19:27	ILY	A
Isopropylbenzene	ND	ND,P1	ug/L	500	110	SW846 8260D	500	12/27/2024 19:27	ILY	A
Methyl acetate	ND	ND,8,P1	ug/L	1000	160	SW846 8260D	500	12/27/2024 19:27	ILY	A
Methyl cyclohexane	ND	ND,P1	ug/L	500	150	SW846 8260D	500	12/27/2024 19:27	ILY	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:27	ILY	A
Methylene Chloride	ND	ND,P1	ug/L	500	225	SW846 8260D	500	12/27/2024 19:27	ILY	A
mp-Xylene	1690	P1	ug/L	1000	260	SW846 8260D	500	12/27/2024 19:27	ILY	A
o-Xylene	504	P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:27	ILY	A
Styrene	188J	J,P1	ug/L	500	120	SW846 8260D	500	12/27/2024 19:27	ILY	A
Tetrachloroethene	ND	ND,P1	ug/L	500	175	SW846 8260D	500	12/27/2024 19:27	ILY	A
Toluene	2260	P1	ug/L	500	115	SW846 8260D	500	12/27/2024 19:27	ILY	A
Total Xylenes	2200	P1	ug/L	1500	330	SW846 8260D	500	12/27/2024 19:27	ILY	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	500	130	SW846 8260D	500	12/27/2024 19:27	ILY	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	500	145	SW846 8260D	500	12/27/2024 19:27	ILY	A
Trichloroethene	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:27	ILY	A
Trichlorofluoromethane	ND	ND,P1	ug/L	500	120	SW846 8260D	500	12/27/2024 19:27	ILY	A
Vinyl Chloride	ND	ND,P1	ug/L	500	150	SW846 8260D	500	12/27/2024 19:27	ILY	A

Results

Client Sample ID	MW-36D	Collected	12/17/2024 11:10
Lab Sample ID	3392812005	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	12/27/2024 19:27	
4-Bromofluorobenzene	460-00-4	95.6%	79 – 114	12/27/2024 19:27	
Dibromofluoromethane	1868-53-7	102%	78 – 116	12/27/2024 19:27	
Toluene-d8	2037-26-5	104%	76 – 127	12/27/2024 19:27	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	51	3,P1	mg/L	5	5	SM2310B-2011	1	12/27/2024 13:47	RAG	I
Alkalinity, Total	358	4,P1	mg/L	5	5	SM2320B-2011	1	12/28/2024 04:25	JXK	I
Chloride	27.5	P1	mg/L	5.0	2.2	SW846 9056A	5	12/18/2024 19:00	J1W	I
Nitrate-N	30.7	P1	mg/L	2.5	0.80	SW846 9056A	5	12/18/2024 19:00	J1W	I
pH	8.17	5,P1	pH_Units			S4500HB-11	1	12/28/2024 04:25	JXK	I
Specific Conductance	3500	P1	umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	1290	P1	mg/L	20.0	14.0	SW846 9056A	20	12/19/2024 19:38	J1W	I
Total Dissolved Solids	2320	P1	mg/L	25	25	SM2540C-15	1	12/20/2024 17:15	RAG	I
Turbidity	3.4	P1	NTU	0.30	0.30	SM2130B-2011	1	12/19/2024 08:12	NPF	I

Results

Client Sample ID	MW-42	Collected	12/17/2024 15:00
Lab Sample ID	3392812006	Lab Receipt	12/18/2024 09:42

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1,S1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Aluminum, Total	0.78	P1,S1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Antimony, Dissolved	ND	ND,P1,S1	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Antimony, Total	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Arsenic, Dissolved	0.0050J	J,P1,S1	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Arsenic, Total	ND	ND,P1,S1	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:25	MSY	E1
Barium, Dissolved	0.012	P1,S1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Barium, Total	0.017	P1,S1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Beryllium, Dissolved	ND	ND,P1,S1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Beryllium, Total	ND	ND,P1,S1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Cadmium, Dissolved	ND	ND,P1,S1	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Cadmium, Total	ND	ND,P1,S1	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Calcium, Dissolved	45.9	P1,S1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Calcium, Total	52.3	P1,S1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Chromium, Dissolved	ND	ND,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Chromium, Total	ND	ND,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Cobalt, Dissolved	ND	ND,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:38	MSY	G1
Cobalt, Total	ND	ND,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Copper, Dissolved	ND	ND,P1,S1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Copper, Total	ND	ND,P1,S1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Iron, Dissolved	ND	ND,P1,S1	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Iron, Total	1.0	P1,S1	mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Lead, Dissolved	ND	ND,P1,S1	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Lead, Total	0.0027J	J,P1,S1	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Magnesium, Dissolved	5.6	P1,S1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Magnesium, Total	6.4	P1,S1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Manganese, Dissolved	0.0033J	J,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Manganese, Total	0.029	P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Mercury, Dissolved	ND	ND,P1,S1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:24	AJN	G
Mercury, Total	ND	ND,P1,S1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:05	AJN	E
Nickel, Dissolved	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Nickel, Total	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Potassium, Dissolved	3.9	P1,S1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Potassium, Total	4.1	P1,S1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Selenium, Dissolved	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Selenium, Total	0.0080J	J,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Silver, Dissolved	ND	ND,P1,S1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Silver, Total	ND	ND,P1,S1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Sodium, Dissolved	43.5	P1,S1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Sodium, Total	45.2	P1,S1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:16	MSY	E1

Results

Client Sample ID	MW-42	Collected	12/17/2024 15:00
Lab Sample ID	3392812006	Lab Receipt	12/18/2024 09:42

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Thallium, Dissolved	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Thallium, Total	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Vanadium, Dissolved	ND	ND,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Vanadium, Total	ND	ND,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Zinc, Dissolved	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Zinc, Total	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:16	MSY	E1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
1,4-Dioxane	ND	ND,P1,S1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,6,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,4,5-Trichlorophenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,4,6-Trichlorophenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,4-Dichlorophenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,4-Dimethylphenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,4-Dinitrophenol	ND	ND,7,P1,S1	ug/L	6.0	4.3	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,4-Dinitrotoluene	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,6-Dinitrotoluene	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
2-Chloronaphthalene	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
2-Chlorophenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1,S1	ug/L	6.0	3.0	SW846 8270E	1	12/26/2024 16:03	CGS	D
2-Methylnaphthalene	0.58J	J,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
2-Nitroaniline	ND	ND,P1,S1	ug/L	3.0	0.26	SW846 8270E	1	12/26/2024 16:03	CGS	D
2-Nitrophenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
3,3-Dichlorobenzidine	ND	ND,P1,S1	ug/L	16.0	8.5	SW846 8270E	1	12/26/2024 16:03	CGS	D
3-Nitroaniline	ND	ND,P1,S1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 16:03	CGS	D
4-Bromophenyl-phenylether	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
4-Chloro-3-methylphenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
4-Chloroaniline	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
4-Chlorophenyl-phenylether	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
4-Nitroaniline	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
4-Nitrophenol	ND	ND,P1,S1	ug/L	3.0	1.1	SW846 8270E	1	12/26/2024 16:03	CGS	D
Acenaphthene	ND	ND,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Acenaphthylene	0.32J	J,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Acetophenone	ND	ND,P1,S1	ug/L	3.0	0.90	SW846 8270E	1	12/26/2024 16:03	CGS	D

Results

Client Sample ID	MW-42	Collected	12/17/2024 15:00
Lab Sample ID	3392812006	Lab Receipt	12/18/2024 09:42

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Anthracene	ND	ND,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Atrazine	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Benzaldehyde	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Benzo(a)anthracene	ND	ND,P1,S1	ug/L	1.5	0.28	SW846 8270E	1	12/26/2024 16:03	CGS	D
Benzo(a)pyrene	ND	ND,P1,S1	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 16:03	CGS	D
Benzo(b)fluoranthene	ND	ND,P1,S1	ug/L	1.5	0.30	SW846 8270E	1	12/26/2024 16:03	CGS	D
Benzo(g,h,i)perylene	ND	ND,P1,S1	ug/L	1.5	0.36	SW846 8270E	1	12/26/2024 16:03	CGS	D
Benzo(k)fluoranthene	ND	ND,P1,S1	ug/L	1.5	0.34	SW846 8270E	1	12/26/2024 16:03	CGS	D
Biphenyl	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
bis(2-Chloroethoxy)methane	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
bis(2-Chloroethyl)ether	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1,S1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 16:03	CGS	D
Butylbenzylphthalate	ND	ND,P1,S1	ug/L	3.0	0.31	SW846 8270E	1	12/26/2024 16:03	CGS	D
Caprolactam	ND	ND,P1,S1	ug/L	3.0	0.36	SW846 8270E	1	12/26/2024 16:03	CGS	D
Carbazole	0.48J	J,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Chrysene	ND	ND,P1,S1	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 16:03	CGS	D
Dibenzo(a,h)anthracene	ND	ND,P1,S1	ug/L	1.5	0.32	SW846 8270E	1	12/26/2024 16:03	CGS	D
Dibenzofuran	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Diethylphthalate	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Dimethylphthalate	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Di-n-Butylphthalate	ND	ND,P1,S1	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 16:03	CGS	D
Di-n-Octylphthalate	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Fluoranthene	ND	ND,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Fluorene	ND	ND,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Hexachlorobenzene	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Hexachlorobutadiene	ND	ND,P1,S1	ug/L	3.0	0.28	SW846 8270E	1	12/26/2024 16:03	CGS	D
Hexachlorocyclopentadiene	ND	ND,P1,S1	ug/L	3.0	0.43	SW846 8270E	1	12/26/2024 16:03	CGS	D
Hexachloroethane	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1,S1	ug/L	1.5	0.31	SW846 8270E	1	12/26/2024 16:03	CGS	D
Isophorone	ND	ND,P1,S1	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 16:03	CGS	D
mp-Cresol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
Naphthalene	7.7	P1,S1	ug/L	1.5	0.65	SW846 8270E	1	12/26/2024 16:03	CGS	D
Nitrobenzene	ND	ND,P1,S1	ug/L	3.0	0.58	SW846 8270E	1	12/26/2024 16:03	CGS	D
N-Nitroso-di-n-propylamine	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
N-Nitrosodiphenylamine	ND	ND,P1,S1	ug/L	3.0	0.32	SW846 8270E	1	12/26/2024 16:03	CGS	D

Results

Client Sample ID	MW-42	Collected	12/17/2024 15:00
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
o-Cresol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
Pentachlorophenol	ND	ND,P1,S1	ug/L	8.0	1.4	SW846 8270E	1	12/26/2024 16:03	CGS	D
Phenanthrene	ND	ND,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Phenol	ND	ND,P1,S1	ug/L	8.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
Pyrene	ND	ND,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	76.3%	23 – 131	12/26/2024 16:03	
2-Fluorobiphenyl	321-60-8	81.2%	24 – 116	12/26/2024 16:03	
2-Fluorophenol	367-12-4	43.8%	10 – 85	12/26/2024 16:03	
Nitrobenzene-d5	4165-60-0	77.9%	32 – 125	12/26/2024 16:03	
Phenol-d5	4165-62-2	33.4%	7 – 56	12/26/2024 16:03	
Terphenyl-d14	98904-43-9	81.4%	41 – 145	12/26/2024 16:03	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1,S1	ug/L	50.0	11.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND,P1,S1	ug/L	50.0	17.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,1,2-Trichloroethane	ND	ND,P1,S1	ug/L	50.0	16.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,1-Dichloroethane	ND	ND,P1,S1	ug/L	50.0	14.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,1-Dichloroethene	ND	ND,P1,S1	ug/L	50.0	14.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2,3-Trichlorobenzene	ND	ND,P1,S1	ug/L	100	46.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2,3-Trichloropropane	ND	ND,P1,S1	ug/L	100	30.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2,4-Trichlorobenzene	ND	ND,P1,S1	ug/L	100	41.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2,4-Trimethylbenzene	ND	ND,P1,S1	ug/L	50.0	12.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND,P1,S1	ug/L	350	75.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2-Dibromoethane	ND	ND,P1,S1	ug/L	50.0	14.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2-Dichlorobenzene	ND	ND,P1,S1	ug/L	50.0	19.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2-Dichloroethane	ND	ND,P1,S1	ug/L	50.0	16.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2-Dichloropropane	ND	ND,P1,S1	ug/L	50.0	12.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,3,5-Trimethylbenzene	ND	ND,P1,S1	ug/L	50.0	10.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,3-Dichlorobenzene	ND	ND,P1,S1	ug/L	50.0	12.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,4-Dichlorobenzene	ND	ND,P1,S1	ug/L	50.0	13.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
2-Butanone	ND	ND,P1,S1	ug/L	500	90.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
2-Hexanone	ND	ND,P1,S1	ug/L	250	65.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1,S1	ug/L	250	75.0	SW846 8260D	50	12/27/2024 17:47	ILY	A

Results

Client Sample ID	MW-42	Collected	12/17/2024 15:00
Lab Sample ID	3392812006	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acetone	ND	ND,P1,S1	ug/L	500	155	SW846 8260D	50	12/27/2024 17:47	ILY	A
Benzene	ND	ND,P1,S1	ug/L	50.0	11.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Bromochloromethane	ND	ND,P1,S1	ug/L	50.0	16.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Bromodichloromethane	ND	ND,P1,S1	ug/L	50.0	13.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Bromoform	ND	ND,P1,S1	ug/L	50.0	20.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Bromomethane	ND	ND,P1,S1	ug/L	50.0	19.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Carbon Disulfide	ND	ND,P1,S1	ug/L	50.0	11.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Carbon Tetrachloride	ND	ND,P1,S1	ug/L	50.0	15.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Chlorobenzene	ND	ND,P1,S1	ug/L	50.0	9.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Chlorodibromomethane	ND	ND,P1,S1	ug/L	50.0	22.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Chloroethane	ND	ND,P1,S1	ug/L	50.0	16.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Chloroform	ND	ND,P1,S1	ug/L	50.0	10.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Chloromethane	ND	ND,P1,S1	ug/L	50.0	15.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
cis-1,2-Dichloroethene	ND	ND,P1,S1	ug/L	50.0	16.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
cis-1,3-Dichloropropene	ND	ND,P1,S1	ug/L	50.0	15.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Cyclohexane	ND	ND,P1,S1	ug/L	50.0	14.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Dichlorodifluoromethane	ND	ND,P1,S1	ug/L	50.0	16.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Ethylbenzene	ND	ND,P1,S1	ug/L	50.0	17.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Freon 113	ND	ND,P1,S1	ug/L	50.0	13.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Isopropylbenzene	ND	ND,P1,S1	ug/L	50.0	11.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Methyl acetate	ND	ND,8,P1,S1	ug/L	100	16.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Methyl cyclohexane	ND	ND,P1,S1	ug/L	50.0	15.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Methyl t-Butyl Ether	ND	ND,P1,S1	ug/L	50.0	16.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Methylene Chloride	ND	ND,P1,S1	ug/L	50.0	22.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
mp-Xylene	ND	ND,P1,S1	ug/L	100	26.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
o-Xylene	ND	ND,P1,S1	ug/L	50.0	16.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Styrene	ND	ND,P1,S1	ug/L	50.0	12.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Tetrachloroethene	ND	ND,P1,S1	ug/L	50.0	17.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Toluene	ND	ND,P1,S1	ug/L	50.0	11.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Total Xylenes	ND	ND,P1,S1	ug/L	150	33.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
trans-1,2-Dichloroethene	ND	ND,P1,S1	ug/L	50.0	13.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
trans-1,3-Dichloropropene	ND	ND,P1,S1	ug/L	50.0	14.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Trichloroethene	ND	ND,P1,S1	ug/L	50.0	16.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Trichlorofluoromethane	ND	ND,P1,S1	ug/L	50.0	12.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Vinyl Chloride	ND	ND,P1,S1	ug/L	50.0	15.0	SW846 8260D	50	12/27/2024 17:47	ILY	A

Results

Client Sample ID	MW-42	Collected	12/17/2024 15:00
Lab Sample ID	3392812006	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/27/2024 17:47	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	12/27/2024 17:47	
Dibromofluoromethane	1868-53-7	98.5%	78 – 116	12/27/2024 17:47	
Toluene-d8	2037-26-5	102%	76 – 127	12/27/2024 17:47	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	5	3,P1,S1	mg/L	5	5	SM2310B-2011	1	12/27/2024 13:47	RAG	I
Alkalinity, Total	210	4,P1,S1	mg/L	5	5	SM2320B-2011	1	12/28/2024 04:39	JXK	I
Chloride	1.4J	J,9,P1,S1	mg/L	2.0	0.88	SW846 9056A	2	12/18/2024 19:35	J1W	I
Nitrate-N	0.64J	J,P1,S1	mg/L	1.0	0.32	SW846 9056A	2	12/18/2024 19:35	J1W	I
pH	8.46	5,P1,S1	pH_Units			S4500HB-11	1	12/28/2024 04:39	JXK	I
Specific Conductance	416	P1,S1	umhos/cm	5	0.1	SW846 9050A	1	12/30/2024 17:12	LMD	I
Sulfate	14.6	10,11,P1,S1	mg/L	2.0	1.4	SW846 9056A	2	12/18/2024 19:35	J1W	I
Total Dissolved Solids	280	P1,S1	mg/L	25	25	SM2540C-15	1	12/20/2024 17:15	RAG	I
Turbidity	28	P1,S1	NTU	0.30	0.30	SM2130B-2011	1	12/19/2024 08:12	NPF	I

Results

Client Sample ID	TB-45	Collected	12/17/2024 00:00
Lab Sample ID	3392812007	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.93	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2.0	0.60	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.82	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	1.5	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.38	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.20	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/27/2024 13:09	ILY	A
2-Butanone	ND	ND,P1	ug/L	10.0	1.8	SW846 8260D	1	12/27/2024 13:09	ILY	A
2-Hexanone	ND	ND,P1	ug/L	5.0	1.3	SW846 8260D	1	12/27/2024 13:09	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	1.5	SW846 8260D	1	12/27/2024 13:09	ILY	A
Acetone	ND	ND,P1	ug/L	10.0	3.1	SW846 8260D	1	12/27/2024 13:09	ILY	A
Benzene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/27/2024 13:09	ILY	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/27/2024 13:09	ILY	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/27/2024 13:09	ILY	A
Bromoform	ND	ND,P1	ug/L	1.0	0.40	SW846 8260D	1	12/27/2024 13:09	ILY	A
Bromomethane	ND	ND,P1	ug/L	1.0	0.39	SW846 8260D	1	12/27/2024 13:09	ILY	A
Carbon Disulfide	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/27/2024 13:09	ILY	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/27/2024 13:09	ILY	A
Chlorobenzene	ND	ND,P1	ug/L	1.0	0.19	SW846 8260D	1	12/27/2024 13:09	ILY	A
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/27/2024 13:09	ILY	A
Chloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/27/2024 13:09	ILY	A
Chloroform	ND	ND,P1	ug/L	1.0	0.21	SW846 8260D	1	12/27/2024 13:09	ILY	A
Chloromethane	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/27/2024 13:09	ILY	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/27/2024 13:09	ILY	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/27/2024 13:09	ILY	A
Cyclohexane	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/27/2024 13:09	ILY	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/27/2024 13:09	ILY	A
Ethylbenzene	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/27/2024 13:09	ILY	A
Freon 113	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/27/2024 13:09	ILY	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/27/2024 13:09	ILY	A
Methyl acetate	ND	ND,8,P1	ug/L	2.0	0.32	SW846 8260D	1	12/27/2024 13:09	ILY	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/27/2024 13:09	ILY	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/27/2024 13:09	ILY	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/27/2024 13:09	ILY	A
mp-Xylene	ND	ND,P1	ug/L	2.0	0.52	SW846 8260D	1	12/27/2024 13:09	ILY	A
o-Xylene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/27/2024 13:09	ILY	A
Styrene	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/27/2024 13:09	ILY	A

Results

Client Sample ID	TB-45	Collected	12/17/2024 00:00
Lab Sample ID	3392812007	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND,P1	ug/L	1.0	0.35	SW846 8260D	1	12/27/2024 13:09	ILY	A
Toluene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/27/2024 13:09	ILY	A
Total Xylenes	ND	ND,P1	ug/L	3.0	0.66	SW846 8260D	1	12/27/2024 13:09	ILY	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/27/2024 13:09	ILY	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/27/2024 13:09	ILY	A
Trichloroethene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/27/2024 13:09	ILY	A
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/27/2024 13:09	ILY	A
Vinyl Chloride	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/27/2024 13:09	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	12/27/2024 13:09	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	12/27/2024 13:09	
Dibromofluoromethane	1868-53-7	98.7%	78 – 116	12/27/2024 13:09	
Toluene-d8	2037-26-5	106%	76 – 127	12/27/2024 13:09	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392812001	MW-9D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392812002	MW-27S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392812003	MW-27D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392812004	MW-36S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392812005	MW-36D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392812006	MW-42	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392812007	TB-45	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1358090	Prep Method	SW846 7470A
Date	12/20/2024 07:49	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Matrix Spike 3921304 (MS) 3392940001 (non-Project Sample) For QC Batch 1358090

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921305 (MSD) 3392940001 (non-Project Sample) For QC Batch 1358090

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0048	0.000021	0.0050	96	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0.000021	0.0050	95.2	70 - 130	RPD 0.83 (Max-20)	

Matrix Spike 3921306 (MS) 3392940003 (non-Project Sample) For QC Batch 1358090

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921307 (MSD) 3392940003 (non-Project Sample) For QC Batch 1358090

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0047	0.000029	0.0050	92.4	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0047	0.000029	0.0050	92.8	70 - 130	RPD 0.43 (Max-20)	

Method Blank 3921302 (MB) Created on 12/20/2024 06:14 For QC Batch 1358090

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3921303 (LCS) Created on 12/20/2024 06:14 For QC Batch 1358090

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0019		0.0020	96.5	85 - 115		

QUALITY CONTROL SAMPLES

METALS (cont.)

QC Batch

QC Batch	1358092	Prep Method	SW846 7470A
Date	12/20/2024 07:49	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Method Blank 3921311 (MB) Created on 12/20/2024 06:18 For QC Batch 1358092

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3921312 (LCS) Created on 12/20/2024 06:18 For QC Batch 1358092

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0019		0.0020	92.5	85 - 115		

Matrix Spike 3921313 (MS) 3392812006 For QC Batch 1358092

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921314 (MSD) 3392812006 For QC Batch 1358092

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0045	0.000026	0.0050	89.3	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0046	0.000026	0.0050	92.1	70 - 130	RPD 3.07 (Max-20)	

QC Batch

QC Batch	1358105	Prep Method	SW846 3015A
Date	12/20/2024 11:38	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Matrix Spike 3921367 (MS) 3392316004 (non-Project Sample) For QC Batch 1358105

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921368 (MSD) 3392316004 (non-Project Sample) For QC Batch 1358105

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.1	0	1.10	102	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.1	0	1.10	101	75 - 125	RPD 0.87 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.12	0	0.22	52.8*	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.11	0	0.22	49.6*	75 - 125	RPD 6.15 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0.000560	0.11	105	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.12	0.000560	0.11	106	75 - 125	RPD 1.41 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0130	1.10	103	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.1	0.0130	1.10	102	75 - 125	RPD 0.78 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.23	0	0.22	104	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.23	0	0.22	103	75 - 125	RPD 0.72 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000560	0.11	99.8	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000560	0.11	99.2	75 - 125	RPD 0.60 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	452	455	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	453	455	1.10	NC	75 - 125	RPD 0.21 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.12	0.0026	0.11	103	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0026	0.11	102	75 - 125	RPD 0.86 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	101	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	101	75 - 125	RPD 0.05 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.2	0.0230	1.10	104	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0230	1.10	104	75 - 125	RPD 0.87 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	1.2	0.0640	1.10	101	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	1.2	0.0640	1.10	101	75 - 125	RPD 0.78 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.1	0	0.11	93.5	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.1	0	0.11	93.3	75 - 125	RPD 0.21 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	55.5	54.90	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	55.6	54.90	1.10	NC	75 - 125	RPD 0.22 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.16	0.0440	0.11	106	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.16	0.0440	0.11	108	75 - 125	RPD 0.95 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0.0056	1.10	99.3	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0.0056	1.10	99	75 - 125	RPD 0.30 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	26.4	3.20	22.20	105	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	26.4	3.20	22.20	105	75 - 125	RPD 0.12 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.4	0.27	1.10	105	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.4	0.27	1.10	105	75 - 125	RPD 0.14 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	108	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	107	75 - 125	RPD 0.56 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	121	99	22.20	NC	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	121	99	22.20	NC	75 - 125	RPD 0.32 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.1	0	0.11	92.6	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.1	0	0.11	93.8	75 - 125	RPD 1.29 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.056	0	0.0560	101	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.056	0	0.0560	100	75 - 125	RPD 0.79 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.65	0.12	0.56	95.2	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.64	0.12	0.56	94.9	75 - 125	RPD 0.26 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Method Blank 3921365 (MB) Created on 12/20/2024 07:53 For QC Batch 1358105

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3921366 (LCS) Created on 12/20/2024 07:53 For QC Batch 1358105

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.2		1.10	104	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.18		0.22	81	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.12		0.11	106	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	108	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.24		0.22	108	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	108	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.2		1.10	104	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	108	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	108	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	103	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	106	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	108	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	107	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	113	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	107	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	23		22.20	104	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	107	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.6		22.20	106	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	97.7	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.06		0.0560	107	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.58		0.56	105	80 - 120		

QC Batch

QC Batch	1358109	Prep Method	SW846 3015A
Date	12/20/2024 10:30	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Matrix Spike 3921373 (MS) 3392603001 (non-Project Sample) For QC Batch 1358109

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921374 (MSD) 3392603001 (non-Project Sample) For QC Batch 1358109

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Calcium, Total	7440-70-2	MS	89.7	88.80	1.10	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	89.5	88.80	1.10	NC	75 - 125	RPD 0.21 (Max-20)	
Iron, Total	7439-89-6	MS	1.1	0.01	1.10	102	75 - 125		
Iron, Total	7439-89-6	MSD	1.1	0.01	1.10	102	75 - 125	RPD 0.05 (Max-20)	
Magnesium, Total	7439-95-4	MS	43.5	42.50	1.10	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	43.6	42.50	1.10	NC	75 - 125	RPD 0.13 (Max-20)	
Manganese, Total	7439-96-5	MS	0.12	0	0.11	104	75 - 125		
Manganese, Total	7439-96-5	MSD	0.11	0	0.11	102	75 - 125	RPD 1.75 (Max-20)	
Potassium, Total	7440-09-7	MS	26.9	3.50	22.20	105	75 - 125		
Potassium, Total	7440-09-7	MSD	26.7	3.50	22.20	105	75 - 125	RPD 0.78 (Max-20)	
Sodium, Total	7440-23-5	MS	48.5	25.40	22.20	104	75 - 125		
Sodium, Total	7440-23-5	MSD	48.2	25.40	22.20	103	75 - 125	RPD 0.56 (Max-20)	

Method Blank 3921371 (MB) Created on 12/20/2024 07:55 For QC Batch 1358109

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3921372 (LCS) Created on 12/20/2024 07:55 For QC Batch 1358109

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	105	80 - 120		
Antimony, Total	7440-36-0	LCS	0.23		0.22	105	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.11		0.11	101	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	108	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	108	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	106	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	103	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	107	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	105	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	103	80 - 120		
Iron, Total	7439-89-6	LCS	1.2		1.10	105	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	108	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	108	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	107	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	106	80 - 120		
Potassium, Total	7440-09-7	LCS	22.8		22.20	103	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	107	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	107	80 - 120		
Sodium, Total	7440-23-5	LCS	23.4		22.20	105	80 - 120		
Thallium, Total	7440-28-0	LCS	0.1		0.11	93.4	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.06		0.0560	108	80 - 120		
Zinc, Total	7440-66-6	LCS	0.58		0.56	105	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1358115	Prep Method	SW846 3510C
Date	12/20/2024 09:55	Analysis Method	SW846 8270E
Tech.	EJH		

Associated Samples

3392812001

Matrix Spike 3921385 (MS) 3392443002 (non-Project Sample) For QC Batch 1358115

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	MS	26.9	0	50	53.9	18 - 124		
1,4-Dioxane	123-91-1	MS	22.6	0	50	45.2	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	MS	78.4	0	100	78.4	36 - 133		
2,4,5-Trichlorophenol	95-95-4	MS	83.3	0	100	83.3	44 - 148		
2,4,6-Trichlorophenol	88-06-2	MS	81.7	0	100	81.7	41 - 148		
2,4-Dichlorophenol	120-83-2	MS	76.8	0	100	76.8	44 - 142		
2,4-Dimethylphenol	105-67-9	MS	88.5	0	100	88.5	46 - 141		
2,4-Dinitrophenol	51-28-5	MS	72.7	0	100	72.7	21 - 140		
2,4-Dinitrotoluene	121-14-2	MS	39.6	0	50	79.3	49 - 138		
2,6-Dinitrotoluene	606-20-2	MS	42.5	0	50	84.9	49 - 136		
2-Chloronaphthalene	91-58-7	MS	32.6	0	50	65.2	27 - 125		
2-Chlorophenol	95-57-8	MS	74.5	0	100	74.5	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	MS	83.9	0	100	83.9	46 - 133		
2-Methylnaphthalene	91-57-6	MS	30.3	0	50	60.7	22 - 124		
2-Nitroaniline	88-74-4	MS	41	0	50	82	55 - 138		
2-Nitrophenol	88-75-5	MS	78.4	0	100	78.4	46 - 140		
3,3-Dichlorobenzidine	91-94-1	MS	55.1	0	100	55.1	38 - 115		
3-Nitroaniline	99-09-2	MS	39.3	0	50	78.7	60 - 123		
4-Bromophenyl-phenylether	101-55-3	MS	35.5	0	50	70.9	46 - 128		
4-Chloro-3-methylphenol	59-50-7	MS	81.3	0	100	81.3	46 - 144		
4-Chloroaniline	106-47-8	MS	26.9	0	50	53.9	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	MS	33.7	0	50	67.3	38 - 128		
4-Nitroaniline	100-01-6	MS	40.2	0	50	80.4	53 - 124		
4-Nitrophenol	100-02-7	MS	52	0	100	52	5 - 108		
Acenaphthene	83-32-9	MS	35.4	0	50	70.7	36 - 130		
Acenaphthylene	208-96-8	MS	32.2	0	50	64.3	39 - 130		
Acetophenone	98-86-2	MS	33.6	0	50	67.2	49 - 117		
Anthracene	120-12-7	MS	40.5	0	50	81	48 - 133		
Atrazine	1912-24-9	MS	40.2	0	50	80.4	44 - 149		
Benzaldehyde	100-52-7	MS	34.5	0	50	69	38 - 145		
Benzo(a)anthracene	56-55-3	MS	38.7	0	50	77.4	51 - 127		
Benzo(a)pyrene	50-32-8	MS	39.9	0	50	79.9	53 - 127		
Benzo(b)fluoranthene	205-99-2	MS	37.7	0	50	75.4	53 - 131		
Benzo(g,h,i)perylene	191-24-2	MS	44.5	0	50	89	54 - 131		
Benzo(k)fluoranthene	207-08-9	MS	36.9	0	50	73.9	52 - 130		
Biphenyl	92-52-4	MS	32.3	0	50	64.6	30 - 132		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
bis(2-Chloroethoxy)methane	111-91-1	MS	36.9	0	50	73.9	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	MS	36.1	0	50	72.1	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	MS	34.8	0	50	69.6	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	MS	33.8	0	50	67.6	41 - 145		
Butylbenzylphthalate	85-68-7	MS	37.5	0	50	74.9	50 - 137		
Caprolactam	105-60-2	MS	16.9	0	50	33.9	5 - 118		
Carbazole	86-74-8	MS	42	0	50	84	52 - 139		
Chrysene	218-01-9	MS	39.9	0	50	79.8	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	MS	42.5	0	50	85	56 - 130		
Dibenzofuran	132-64-9	MS	34.7	0	50	69.5	39 - 133		
Diethylphthalate	84-66-2	MS	38.1	0.50	50	75.2	45 - 132		
Dimethylphthalate	131-11-3	MS	37.6	0	50	75.3	44 - 131		
Di-n-Butylphthalate	84-74-2	MS	38.2	0	50	76.4	47 - 135		
Di-n-Octylphthalate	117-84-0	MS	39.7	0	50	79.4	35 - 141		
Fluoranthene	206-44-0	MS	40.1	0	50	80.3	49 - 132		
Fluorene	86-73-7	MS	36.5	0	50	73	42 - 131		
Hexachlorobenzene	118-74-1	MS	36.8	0	50	73.7	59 - 109		
Hexachlorobutadiene	87-68-3	MS	21	0	50	41.9	5 - 126		
Hexachlorocyclopentadiene	77-47-4	MS	13.8	0	50	27.6	5 - 97		
Hexachloroethane	67-72-1	MS	20.6	0	50	41.2	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	MS	42.4	0	50	84.7	55 - 126		
Isophorone	78-59-1	MS	35.8	0	50	71.7	45 - 129		
mp-Cresol	108394/106445	MS	72.5	0	100	72.5	28 - 128		
Naphthalene	91-20-3	MS	29.4	0	50	58.8	21 - 123		
Nitrobenzene	98-95-3	MS	35.7	0	50	71.4	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	MS	0	0	50	0*	46 - 133		ND
N-Nitrosodiphenylamine	86-30-6	MS	45.9	0	50	91.7	58 - 125		
o-Cresol	95-48-7	MS	72.9	0	100	72.9	34 - 136		
Pentachlorophenol	87-86-5	MS	79.9	0	100	79.9	41 - 149		
Phenanthrene	85-01-8	MS	39.5	0	50	78.9	46 - 131		
Phenol	108-95-2	MS	47.2	0	100	47.2	5 - 111		
Pyrene	129-00-0	MS	36.9	0	50	73.9	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	86.9	100	86.9	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	36.7	50	73.4	24 - 116	
2-Fluorophenol	367-12-4	MS	52.4	100	52.4	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	38.6	50	77.2	32 - 125	
Phenol-d5	4165-62-2	MS	42.3	100	42.3	7 - 56	
Terphenyl-d14	98904-43-9	MS	32.2	50	64.4	41 - 145	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

Duplicate 3921386 (DUP) 3392443003 (non-Project Sample) For QC Batch 1358115

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	DUP	0	0	RPD	0	(Max-30)	ND
1,4-Dioxane	123-91-1	DUP	0	0	RPD	0	(Max-30)	ND
2,3,4,6-Tetrachlorophenol	58-90-2	DUP	0	0	RPD	0	(Max-30)	ND
2,4,5-Trichlorophenol	95-95-4	DUP	0	0	RPD	0	(Max-23)	ND
2,4,6-Trichlorophenol	88-06-2	DUP	0	0	RPD	0	(Max-23)	ND
2,4-Dichlorophenol	120-83-2	DUP	0	0	RPD	0	(Max-30)	ND
2,4-Dimethylphenol	105-67-9	DUP	0	0	RPD	0	(Max-30)	ND
2,4-Dinitrophenol	51-28-5	DUP	0	0	RPD	0	(Max-30)	ND
2,4-Dinitrotoluene	121-14-2	DUP	0	0	RPD	0	(Max-22)	ND
2,6-Dinitrotoluene	606-20-2	DUP	0	0	RPD	0	(Max-30)	ND
2-Chloronaphthalene	91-58-7	DUP	0	0	RPD	0	(Max-30)	ND
2-Chlorophenol	95-57-8	DUP	0	0	RPD	0	(Max-30)	ND
2-Methyl-4,6-dinitrophenol	534-52-1	DUP	0	0	RPD	0	(Max-30)	ND
2-Methylnaphthalene	91-57-6	DUP	0	0	RPD	0	(Max-30)	ND
2-Nitroaniline	88-74-4	DUP	0	0	RPD	0	(Max-30)	ND
2-Nitrophenol	88-75-5	DUP	0	0	RPD	0	(Max-30)	ND
3,3-Dichlorobenzidine	91-94-1	DUP	0	0	RPD	0	(Max-30)	ND
3-Nitroaniline	99-09-2	DUP	0	0	RPD	0	(Max-30)	ND
4-Bromophenyl-phenylether	101-55-3	DUP	0	0	RPD	0	(Max-30)	ND
4-Chloro-3-methylphenol	59-50-7	DUP	0	0	RPD	0	(Max-30)	ND
4-Chloroaniline	106-47-8	DUP	0	0	RPD	0	(Max-30)	ND
4-Chlorophenyl-phenylether	7005-72-3	DUP	0	0	RPD	0	(Max-30)	ND
4-Nitroaniline	100-01-6	DUP	0	0	RPD	0	(Max-30)	ND
4-Nitrophenol	100-02-7	DUP	0	0	RPD	0	(Max-30)	ND
Acenaphthene	83-32-9	DUP	0	0	RPD	0	(Max-30)	ND
Acenaphthylene	208-96-8	DUP	0	0	RPD	0	(Max-30)	ND
Acetophenone	98-86-2	DUP	0	0	RPD	0	(Max-30)	ND
Anthracene	120-12-7	DUP	0	0	RPD	0	(Max-30)	ND
Atrazine	1912-24-9	DUP	0	0	RPD	0	(Max-30)	ND
Benzaldehyde	100-52-7	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(a)anthracene	56-55-3	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(a)pyrene	50-32-8	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(b)fluoranthene	205-99-2	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(g,h,i)perylene	191-24-2	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(k)fluoranthene	207-08-9	DUP	0	0	RPD	0	(Max-30)	ND
Biphenyl	92-52-4	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Chloroethoxy)methane	111-91-1	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Chloroethyl)ether	111-44-4	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Chloroisopropyl)ether	108-60-1	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Ethylhexyl)phthalate	117-81-7	DUP	0	0	RPD	0	(Max-30)	ND
Butylbenzylphthalate	85-68-7	DUP	0	0	RPD	0	(Max-30)	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
Caprolactam	105-60-2	DUP	0	0	RPD	0	(Max-30)	ND
Carbazole	86-74-8	DUP	0	0	RPD	0	(Max-30)	ND
Chrysene	218-01-9	DUP	0	0	RPD	0	(Max-30)	ND
Dibenzo(a,h)anthracene	53-70-3	DUP	0	0	RPD	0	(Max-30)	ND
Dibenzofuran	132-64-9	DUP	0	0	RPD	0	(Max-30)	ND
Diethylphthalate	84-66-2	DUP	0	0	RPD	0	(Max-30)	ND
Dimethylphthalate	131-11-3	DUP	0	0	RPD	0	(Max-30)	ND
Di-n-Butylphthalate	84-74-2	DUP	0	0	RPD	0	(Max-30)	ND
Di-n-Octylphthalate	117-84-0	DUP	0	0	RPD	0	(Max-30)	ND
Fluoranthene	206-44-0	DUP	0	0	RPD	0	(Max-30)	ND
Fluorene	86-73-7	DUP	0	0	RPD	0	(Max-30)	ND
Hexachlorobenzene	118-74-1	DUP	0	0	RPD	0	(Max-21)	ND
Hexachlorobutadiene	87-68-3	DUP	0	0	RPD	0	(Max-30)	ND
Hexachlorocyclopentadiene	77-47-4	DUP	0	0	RPD	0	(Max-30)	ND
Hexachloroethane	67-72-1	DUP	0	0	RPD	0	(Max-30)	ND
Indeno(1,2,3-cd)pyrene	193-39-5	DUP	0	0	RPD	0	(Max-30)	ND
Isophorone	78-59-1	DUP	0	0	RPD	0	(Max-30)	ND
mp-Cresol	108394/106445	DUP	0	0	RPD	0	(Max-20)	ND
Naphthalene	91-20-3	DUP	0	0	RPD	0	(Max-30)	ND
Nitrobenzene	98-95-3	DUP	0	0	RPD	0	(Max-19)	ND
N-Nitroso-di-n-propylamine	621-64-7	DUP	0	0	RPD	0	(Max-30)	ND
N-Nitrosodiphenylamine	86-30-6	DUP	0	0	RPD	0	(Max-30)	ND
o-Cresol	95-48-7	DUP	0	0	RPD	0	(Max-23)	ND
Pentachlorophenol	87-86-5	DUP	0	0	RPD	0	(Max-28)	ND
Phenanthrene	85-01-8	DUP	0	0	RPD	0	(Max-30)	ND
Phenol	108-95-2	DUP	0	0	RPD	0	(Max-30)	ND
Pyrene	129-00-0	DUP	0	0	RPD	0	(Max-30)	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	DUP	86.7	100	86.7	23 - 131	
2-Fluorobiphenyl	321-60-8	DUP	39.5	50	79	24 - 116	
2-Fluorophenol	367-12-4	DUP	54.2	100	54.2	10 - 85	
Nitrobenzene-d5	4165-60-0	DUP	41.9	50	83.8	32 - 125	
Phenol-d5	4165-62-2	DUP	44	100	44	7 - 56	
Terphenyl-d14	98904-43-9	DUP	35.2	50	70.5	41 - 145	

Method Blank 3921383 (MB) Created on 12/20/2024 08:05 For QC Batch 1358115

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	79.9	100	79.9	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	43.4	50	86.8	24 - 116	
2-Fluorophenol	367-12-4	BLK	50.4	100	50.4	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	46.7	50	93.4	32 - 125	
Phenol-d5	4165-62-2	BLK	48.5	100	48.5	7 - 56	
Terphenyl-d14	98904-43-9	BLK	49.6	50	99.1	41 - 145	

Lab Control Standard 3921384 (LCS) Created on 12/20/2024 08:05 For QC Batch 1358115

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	26.6		50	53.2	18 - 124		
1,4-Dioxane	123-91-1	LCS	23.8		50	47.6	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	88.7		100	88.7	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	92.7		100	92.7	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	91.3		100	91.3	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	85.1		100	85.1	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	94.3		100	94.3	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	89.2		100	89.2	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	41		50	81.9	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	44.4		50	88.7	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	32.8		50	65.7	27 - 125		
2-Chlorophenol	95-57-8	LCS	78.1		100	78.1	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	99.4		100	99.4	46 - 133		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Methylnaphthalene	91-57-6	LCS	30.8		50	61.5	22 - 124		
2-Nitroaniline	88-74-4	LCS	43.1		50	86.2	55 - 138		
2-Nitrophenol	88-75-5	LCS	85.6		100	85.6	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	67.5		100	67.5	38 - 115		
3-Nitroaniline	99-09-2	LCS	40.6		50	81.3	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	38.9		50	77.7	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	86.6		100	86.6	46 - 144		
4-Chloroaniline	106-47-8	LCS	29.7		50	59.4	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	35.7		50	71.5	38 - 128		
4-Nitroaniline	100-01-6	LCS	40.5		50	81	53 - 124		
4-Nitrophenol	100-02-7	LCS	61.5		100	61.5	5 - 108		
Acenaphthene	83-32-9	LCS	36.6		50	73.3	36 - 130		
Acenaphthylene	208-96-8	LCS	33		50	66	39 - 130		
Acetophenone	98-86-2	LCS	33.2		50	66.5	49 - 117		
Anthracene	120-12-7	LCS	42.4		50	84.8	48 - 133		
Atrazine	1912-24-9	LCS	44		50	88.1	44 - 149		
Benzaldehyde	100-52-7	LCS	35.3		50	70.6	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	40.8		50	81.6	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	42.3		50	84.7	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	40.5		50	81	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	48.1		50	96.2	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	39.1		50	78.2	52 - 130		
Biphenyl	92-52-4	LCS	32.4		50	64.7	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	39.5		50	79	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	36.1		50	72.2	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	35.1		50	70.2	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	40.3		50	80.6	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	42		50	84.1	50 - 137		
Caprolactam	105-60-2	LCS	17.6		50	35.2	5 - 118		
Carbazole	86-74-8	LCS	42.6		50	85.1	52 - 139		
Chrysene	218-01-9	LCS	42.1		50	84.3	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	46.4		50	92.7	56 - 130		
Dibenzofuran	132-64-9	LCS	36		50	72.1	39 - 133		
Diethylphthalate	84-66-2	LCS	40.7		50	81.3	45 - 132		
Dimethylphthalate	131-11-3	LCS	39.7		50	79.5	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	44.9		50	89.8	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	46.3		50	92.7	35 - 141		
Fluoranthene	206-44-0	LCS	42.3		50	84.5	49 - 132		
Fluorene	86-73-7	LCS	38.1		50	76.2	42 - 131		
Hexachlorobenzene	118-74-1	LCS	39.7		50	79.3	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	21		50	42	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	12.9		50	25.8	5 - 97		
Hexachloroethane	67-72-1	LCS	19.6		50	39.2	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	45.9		50	91.8	55 - 126		
Isophorone	78-59-1	LCS	38		50	76	45 - 129		
mp-Cresol	108394/106445	LCS	75.6		100	75.6	28 - 128		
Naphthalene	91-20-3	LCS	30.2		50	60.4	21 - 123		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrobenzene	98-95-3	LCS	36.7		50	73.4	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	0		50	0*	46 - 133		ND
N-Nitrosodiphenylamine	86-30-6	LCS	49.1		50	98.2	58 - 125		
o-Cresol	95-48-7	LCS	74.3		100	74.3	34 - 136		
Pentachlorophenol	87-86-5	LCS	92.4		100	92.4	41 - 149		
Phenanthrene	85-01-8	LCS	41.1		50	82.1	46 - 131		
Phenol	108-95-2	LCS	48.1		100	48.1	5 - 111		
Pyrene	129-00-0	LCS	38.7		50	77.4	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	99.4	100	99.4	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	40	50	80.1	24 - 116	
2-Fluorophenol	367-12-4	LCS	59.2	100	59.2	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	42.9	50	85.9	32 - 125	
Phenol-d5	4165-62-2	LCS	45.6	100	45.6	7 - 56	
Terphenyl-d14	98904-43-9	LCS	45.4	50	90.8	41 - 145	

QC Batch

QC Batch	1359701	Prep Method	SW846 3510C
Date	12/23/2024 23:25	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3392812003 3392812005 3392812006

Matrix Spike 3922508 (MS) 3391292001 (non-Project Sample) For QC Batch 1359701

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3922509 (MSD) 3391292001 (non-Project Sample) For QC Batch 1359701

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2,4,5-Trichlorophenol	95-95-4	MS	373	0	500	74.6	44 - 148		
2,4,5-Trichlorophenol	95-95-4	MSD	501	0	500	100	44 - 148	RPD 29.30* (Max-23)	
2,4,6-Trichlorophenol	88-06-2	MS	342	0	500	68.3	41 - 148		
2,4,6-Trichlorophenol	88-06-2	MSD	468	0	500	93.6	41 - 148	RPD 31.20* (Max-23)	
2,4-Dinitrotoluene	121-14-2	MS	197	0	250	78.9	49 - 138		
2,4-Dinitrotoluene	121-14-2	MSD	256	0	250	103	49 - 138	RPD 26.10* (Max-22)	
Hexachlorobenzene	118-74-1	MS	155	0	250	61.8	59 - 109		
Hexachlorobenzene	118-74-1	MSD	217	0	250	86.8	59 - 109	RPD 33.60* (Max-21)	
Hexachlorobutadiene	87-68-3	MS	79.6	0	250	31.8	5 - 126		
Hexachlorobutadiene	87-68-3	MSD	116	0	250	46.3	5 - 126	RPD 37* (Max-30)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Hexachloroethane	67-72-1	MS	57.6	0	250	23.1	5 - 111		
Hexachloroethane	67-72-1	MSD	86.4	0	250	34.6	5 - 111	RPD 40* (Max-30)	
mp-Cresol	108394/106445	MS	256	0	500	51.2	28 - 128		
mp-Cresol	108394/106445	MSD	362	0	500	72.4	28 - 128	RPD 34.30* (Max-20)	
Naphthalene	91-20-3	MS	110	4.50	250	42.1	21 - 123		
Naphthalene	91-20-3	MSD	157	4.50	250	60.8	21 - 123	RPD 35.10* (Max-30)	
Nitrobenzene	98-95-3	MS	108	0	250	43.2	41 - 128		
Nitrobenzene	98-95-3	MSD	155	0	250	62	41 - 128	RPD 35.70* (Max-19)	
o-Cresol	95-48-7	MS	242	0	500	48.4	34 - 136		
o-Cresol	95-48-7	MSD	351	0	500	70.2	34 - 136	RPD 36.70* (Max-23)	
Pentachlorophenol	87-86-5	MS	325	0	500	65	41 - 149		
Pentachlorophenol	87-86-5	MSD	450	0	500	90.1	41 - 149	RPD 32.40* (Max-28)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	367	500	73.4	23 - 131	
2,4,6-Tribromophenol	118-79-6	MSD	515	500	103	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	150	250	59.8	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	205	250	82.2	24 - 116	
2-Fluorophenol	367-12-4	MS	181	500	36.1	10 - 85	
2-Fluorophenol	367-12-4	MSD	275	500	55.1	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	137	250	54.8	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	201	250	80.2	32 - 125	
Phenol-d5	4165-62-2	MS	131	500	26.2	7 - 56	
Phenol-d5	4165-62-2	MSD	188	500	37.6	7 - 56	
Terphenyl-d14	98904-43-9	MS	171	250	68.5	41 - 145	
Terphenyl-d14	98904-43-9	MSD	243	250	97.3	41 - 145	

Method Blank 3922506 (MB) Created on 12/23/2024 13:04 For QC Batch 1359701

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	83.7	100	83.7	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	39.4	50	78.8	24 - 116	
2-Fluorophenol	367-12-4	BLK	55.5	100	55.5	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	38.6	50	77.2	32 - 125	
Phenol-d5	4165-62-2	BLK	39	100	39	7 - 56	
Terphenyl-d14	98904-43-9	BLK	46.7	50	93.4	41 - 145	

Lab Control Standard 3922507 (LCS) Created on 12/23/2024 13:04 For QC Batch 1359701

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	37		50	74	18 - 124		
1,4-Dioxane	123-91-1	LCS	23.3		50	46.6	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	111		100	111	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	104		100	104	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	99.1		100	99.1	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	92.4		100	92.4	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	89.5		100	89.5	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	71.4		100	71.4	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	54		50	108	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	51		50	102	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	39.8		50	79.6	27 - 125		
2-Chlorophenol	95-57-8	LCS	79.2		100	79.2	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	83.4		100	83.4	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	38.5		50	77	22 - 124		
2-Nitroaniline	88-74-4	LCS	48.6		50	97.2	55 - 138		
2-Nitrophenol	88-75-5	LCS	87.1		100	87.1	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	60.3		100	60.3	38 - 115		
3-Nitroaniline	99-09-2	LCS	44		50	88	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	50.2		50	100	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	90.4		100	90.4	46 - 144		
4-Chloroaniline	106-47-8	LCS	32.2		50	64.4	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	52.4		50	105	38 - 128		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
4-Nitroaniline	100-01-6	LCS	49.2		50	98.3	53 - 124		
4-Nitrophenol	100-02-7	LCS	50.2		100	50.2	5 - 108		
Acenaphthene	83-32-9	LCS	41.7		50	83.5	36 - 130		
Acenaphthylene	208-96-8	LCS	37.9		50	75.7	39 - 130		
Acetophenone	98-86-2	LCS	38.1		50	76.2	49 - 117		
Anthracene	120-12-7	LCS	48.2		50	96.4	48 - 133		
Atrazine	1912-24-9	LCS	54.7		50	109	44 - 149		
Benzaldehyde	100-52-7	LCS	40.4		50	80.8	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	47.7		50	95.5	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	48		50	96.1	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	52.4		50	105	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	44.9		50	89.9	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	50.4		50	101	52 - 130		
Biphenyl	92-52-4	LCS	38.3		50	76.6	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	46.2		50	92.5	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	40.2		50	80.5	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	35.5		50	71	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	45.6		50	91.2	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	49.9		50	99.8	50 - 137		
Caprolactam	105-60-2	LCS	19.3		50	38.7	5 - 118		
Carbazole	86-74-8	LCS	47		50	94	52 - 139		
Chrysene	218-01-9	LCS	49.4		50	98.7	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	46.3		50	92.5	56 - 130		
Dibenzofuran	132-64-9	LCS	44		50	88.1	39 - 133		
Diethylphthalate	84-66-2	LCS	54.4		50	109	45 - 132		
Dimethylphthalate	131-11-3	LCS	50.6		50	101	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	48.6		50	97.1	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	47.2		50	94.4	35 - 141		
Fluoranthene	206-44-0	LCS	51.2		50	102	49 - 132		
Fluorene	86-73-7	LCS	48		50	95.9	42 - 131		
Hexachlorobenzene	118-74-1	LCS	46.8		50	93.7	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	26		50	51.9	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	16.4		50	32.9	5 - 97		
Hexachloroethane	67-72-1	LCS	18.6		50	37.1	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	42.8		50	85.5	55 - 126		
Isophorone	78-59-1	LCS	42.2		50	84.4	45 - 129		
mp-Cresol	108394/106445	LCS	75.5		100	75.5	28 - 128		
Naphthalene	91-20-3	LCS	32.4		50	64.8	21 - 123		
Nitrobenzene	98-95-3	LCS	32		50	64.1	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	42.7		50	85.4	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	55.5		50	111	58 - 125		
o-Cresol	95-48-7	LCS	73.7		100	73.7	34 - 136		
Pentachlorophenol	87-86-5	LCS	83.6		100	83.6	41 - 149		
Phenanthrene	85-01-8	LCS	46.1		50	92.2	46 - 131		
Phenol	108-95-2	LCS	44.5		100	44.5	5 - 111		
Pyrene	129-00-0	LCS	49		50	98.1	48 - 134		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	103	100	103	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	43.9	50	87.7	24 - 116	
2-Fluorophenol	367-12-4	LCS	61.1	100	61.1	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	41.6	50	83.2	32 - 125	
Phenol-d5	4165-62-2	LCS	42.5	100	42.5	7 - 56	
Terphenyl-d14	98904-43-9	LCS	55.1	50	110	41 - 145	

QC Batch

QC Batch	1359732	Prep Method	SW846 3510C
Date	12/23/2024 16:15	Analysis Method	SW846 8270E
Tech.	BMP		

Associated Samples

3392812002 3392812004

Method Blank 3922595 (MB) Created on 12/23/2024 14:20 For QC Batch 1359732

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	56.2	100	56.2	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	38.1	50	76.2	24 - 116	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Fluorophenol	367-12-4	BLK	54.5	100	54.5	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	40	50	80.1	32 - 125	
Phenol-d5	4165-62-2	BLK	44	100	44	7 - 56	
Terphenyl-d14	98904-43-9	BLK	38.1	50	76.3	41 - 145	

Lab Control Standard 3922596 (LCS) Created on 12/23/2024 14:20 For QC Batch 1359732

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	31.6		50	63.3	18 - 124		
1,4-Dioxane	123-91-1	LCS	27.2		50	54.3	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	108		100	108	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	105		100	105	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	103		100	103	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	100		100	100	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	99.8		100	99.8	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	85.8		100	85.8	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	55.7		50	111	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	53.8		50	108	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	37.2		50	74.4	27 - 125		
2-Chlorophenol	95-57-8	LCS	89.2		100	89.2	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	90.3		100	90.3	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	36.2		50	72.3	22 - 124		
2-Nitroaniline	88-74-4	LCS	50.7		50	101	55 - 138		
2-Nitrophenol	88-75-5	LCS	94.9		100	94.9	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	52.7		100	52.7	38 - 115		
3-Nitroaniline	99-09-2	LCS	43.3		50	86.7	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	46.4		50	92.8	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	99.1		100	99.1	46 - 144		
4-Chloroaniline	106-47-8	LCS	30.9		50	61.9	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	48.2		50	96.4	38 - 128		
4-Nitroaniline	100-01-6	LCS	51.4		50	103	53 - 124		
4-Nitrophenol	100-02-7	LCS	56.9		100	56.9	5 - 108		
Acenaphthene	83-32-9	LCS	41.7		50	83.4	36 - 130		
Acenaphthylene	208-96-8	LCS	37.3		50	74.6	39 - 130		
Acetophenone	98-86-2	LCS	44.9		50	89.8	49 - 117		
Anthracene	120-12-7	LCS	47.2		50	94.4	48 - 133		
Atrazine	1912-24-9	LCS	55.1		50	110	44 - 149		
Benzaldehyde	100-52-7	LCS	51.4		50	103	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	50.3		50	101	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	49.7		50	99.4	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	53.3		50	107	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	44.4		50	88.9	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	50.8		50	102	52 - 130		
Biphenyl	92-52-4	LCS	36		50	72	30 - 132		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
bis(2-Chloroethoxy)methane	111-91-1	LCS	51.6		50	103	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	47.1		50	94.1	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	40.6		50	81.3	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	51.5		50	103	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	53.7		50	107	50 - 137		
Caprolactam	105-60-2	LCS	22		50	43.9	5 - 118		
Carbazole	86-74-8	LCS	48		50	96.1	52 - 139		
Chrysene	218-01-9	LCS	50.3		50	101	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	46.7		50	93.3	56 - 130		
Dibenzofuran	132-64-9	LCS	42.9		50	85.7	39 - 133		
Diethylphthalate	84-66-2	LCS	55.3		50	111	45 - 132		
Dimethylphthalate	131-11-3	LCS	52.2		50	104	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	51.7		50	103	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	54.7		50	109	35 - 141		
Fluoranthene	206-44-0	LCS	51.3		50	103	49 - 132		
Fluorene	86-73-7	LCS	46.7		50	93.4	42 - 131		
Hexachlorobenzene	118-74-1	LCS	46.2		50	92.5	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	29.6		50	59.3	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	14.4		50	28.9	5 - 97		
Hexachloroethane	67-72-1	LCS	21.8		50	43.5	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	43.6		50	87.1	55 - 126		
Isophorone	78-59-1	LCS	48		50	96	45 - 129		
mp-Cresol	108394/106445	LCS	87.6		100	87.6	28 - 128		
Naphthalene	91-20-3	LCS	32.7		50	65.4	21 - 123		
Nitrobenzene	98-95-3	LCS	37.2		50	74.3	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	49.9		50	99.8	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	56.9		50	114	58 - 125		
o-Cresol	95-48-7	LCS	83.6		100	83.6	34 - 136		
Pentachlorophenol	87-86-5	LCS	102		100	102	41 - 149		
Phenanthrene	85-01-8	LCS	46.2		50	92.4	46 - 131		
Phenol	108-95-2	LCS	52		100	52	5 - 111		
Pyrene	129-00-0	LCS	50.2		50	100	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	96.4	100	96.4	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	42	50	84	24 - 116	
2-Fluorophenol	367-12-4	LCS	69.5	100	69.5	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	46.2	50	92.5	32 - 125	
Phenol-d5	4165-62-2	LCS	49	100	49	7 - 56	
Terphenyl-d14	98904-43-9	LCS	49.9	50	99.8	41 - 145	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1361065	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3392812004 3392812005 3392812006 3392812007

Matrix Spike 3923657 (MS) 3393101002 (non-Project Sample) For QC Batch 1361065

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3923658 (MSD) 3393101002 (non-Project Sample) For QC Batch 1361065

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1-Dichloroethene	75-35-4	MS	449	0	400	112	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	487	0	400	122	63 - 128	RPD 8.08 (Max-21)	
1,2-Dichloroethane	107-06-2	MS	399	0	400	99.7	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	431	0	400	108	70 - 133	RPD 7.69 (Max-19)	
1,4-Dichlorobenzene	106-46-7	MS	420	0	400	105	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	418	0	400	104	81 - 116	RPD 0.53 (Max-15)	
2-Butanone	78-93-3	MS	1900	0	2000	95	50 - 152		
2-Butanone	78-93-3	MSD	2040	0	2000	102	50 - 152	RPD 7.35 (Max-16)	
Benzene	71-43-2	MS	413	0	400	103	80 - 124		
Benzene	71-43-2	MSD	451	0	400	113	80 - 124	RPD 8.60 (Max-26)	
Carbon Tetrachloride	56-23-5	MS	395	0	400	98.8	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	425	0	400	106	62 - 132	RPD 7.30 (Max-17)	
Chlorobenzene	108-90-7	MS	418	0	400	104	85 - 117		
Chlorobenzene	108-90-7	MSD	443	0	400	111	85 - 117	RPD 5.93 (Max-15)	
Chloroform	67-66-3	MS	410	0	400	102	78 - 122		
Chloroform	67-66-3	MSD	446	0	400	112	78 - 122	RPD 8.49 (Max-16)	
Tetrachloroethene	127-18-4	MS	421	0	400	105	72 - 124		
Tetrachloroethene	127-18-4	MSD	450	0	400	113	72 - 124	RPD 6.80 (Max-38)	
Trichloroethene	79-01-6	MS	407	0	400	102	77 - 124		
Trichloroethene	79-01-6	MSD	441	0	400	110	77 - 124	RPD 8.05 (Max-18)	
Vinyl Chloride	75-01-4	MS	448	0	400	112	27 - 138		
Vinyl Chloride	75-01-4	MSD	484	0	400	121	27 - 138	RPD 7.84 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	601	600	100	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	644	600	107	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	575	600	95.9	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	535	600	89.2	79 - 114	
Dibromofluoromethane	1868-53-7	MS	579	600	96.4	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	612	600	102	78 - 116	
Toluene-d8	2037-26-5	MS	579	600	96.5	76 - 127	
Toluene-d8	2037-26-5	MSD	590	600	98.3	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Method Blank 3923604 (MB) Created on 12/27/2024 12:03 For QC Batch 1361065

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.9	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	28.6	30	95.4	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.4	30	98.1	78 - 116	
Toluene-d8	2037-26-5	BLK	31	30	103	76 - 127	

Lab Control Standard 3923605 (LCS) Created on 12/27/2024 12:03 For QC Batch 1361065

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	16.7		20	83.3	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	25.2		20	126	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	22.6		20	113	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	17.3		20	86.6	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	16.4		20	81.8	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	18.2		20	91.1	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	25.6		20	128	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	19.1		20	95.4	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	17.3		20	86.3	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	25.3		20	127	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	23.6		20	118	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	18		20	90.1	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.3		20	96.7	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	18.7		20	93.4	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	17.3		20	86.6	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	17.1		20	85.5	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	17.5		20	87.4	81 - 116		
2-Butanone	78-93-3	LCS	128		100	128	50 - 152		
2-Hexanone	591-78-6	LCS	132		100	132	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	130		100	130	71 - 146		
Acetone	67-64-1	LCS	127		100	127	40 - 151		
Benzene	71-43-2	LCS	16.9		20	84.5	80 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	20.6		20	103	73 - 117		
Bromodichloromethane	75-27-4	LCS	20.5		20	102	79 - 126		
Bromoform	75-25-2	LCS	23.9		20	119	70 - 123		
Bromomethane	74-83-9	LCS	12.6		20	62.8	45 - 148		
Carbon Disulfide	75-15-0	LCS	16.1		20	80.6	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	14.1		20	70.7	62 - 132		
Chlorobenzene	108-90-7	LCS	17.5		20	87.7	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.8		20	98.9	77 - 122		
Chloroethane	75-00-3	LCS	14.2		20	70.8	51 - 142		
Chloroform	67-66-3	LCS	17.7		20	88.4	78 - 122		
Chloromethane	74-87-3	LCS	12.6		20	63.1	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	18.1		20	90.3	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.2		20	91.2	81 - 121		
Cyclohexane	110-82-7	LCS	14.6		20	73.1	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	9.5		20	47.4	17 - 166		
Ethylbenzene	100-41-4	LCS	16.6		20	83.1	80 - 124		
Freon 113	76-13-1	LCS	15.4		20	77	50 - 130		
Isopropylbenzene	98-82-8	LCS	18.4		20	92.1	73 - 129		
Methyl acetate	79-20-9	LCS	27.1		20	135*	70 - 130		
Methyl cyclohexane	108-87-2	LCS	14.4		20	72	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	22.4		20	112	69 - 115		
Methylene Chloride	75-09-2	LCS	19.6		20	97.8	76 - 121		
mp-Xylene	108383/106423	LCS	33		40	82.5	79 - 125		
o-Xylene	95-47-6	LCS	16.9		20	84.6	79 - 124		
Styrene	100-42-5	LCS	16.4		20	81.8	79 - 123		
Tetrachloroethene	127-18-4	LCS	16.4		20	81.9	72 - 124		
Toluene	108-88-3	LCS	17.3		20	86.6	80 - 125		
Total Xylenes	1330-20-7	LCS	49.9		60	83.2	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	16.5		20	82.7	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.5		20	97.3	78 - 126		
Trichloroethene	79-01-6	LCS	15.6		20	78	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	14		20	70.1	38 - 123		
Vinyl Chloride	75-01-4	LCS	13.5		20	67.5	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.3	30	97.6	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.8	30	99.2	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.4	30	98.1	78 - 116	
Toluene-d8	2037-26-5	LCS	30.2	30	101	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

QC Batch

QC Batch	1362194	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3392812001 3392812002 3392812003

Matrix Spike 3924415 (MS) 3393683001 (non-Project Sample) For QC Batch 1362194

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3924416 (MSD) 3393683001 (non-Project Sample) For QC Batch 1362194

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1-Dichloroethene	75-35-4	MS	470	0	400	118	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	434	0	400	108	63 - 128	RPD 8.03 (Max-21)	
1,2-Dichloroethane	107-06-2	MS	421	0	400	105	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	380	0	400	95	70 - 133	RPD 10.40 (Max-19)	
1,4-Dichlorobenzene	106-46-7	MS	420	0	400	105	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	408	0	400	102	81 - 116	RPD 2.97 (Max-15)	
2-Butanone	78-93-3	MS	2020	0	2000	101	50 - 152		
2-Butanone	78-93-3	MSD	1870	0	2000	93.7	50 - 152	RPD 7.68 (Max-16)	
Benzene	71-43-2	MS	437	4.70	400	108	80 - 124		
Benzene	71-43-2	MSD	403	4.70	400	99.5	80 - 124	RPD 8.11 (Max-26)	
Carbon Tetrachloride	56-23-5	MS	416	0	400	104	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	390	0	400	97.5	62 - 132	RPD 6.35 (Max-17)	
Chlorobenzene	108-90-7	MS	443	0	400	111	85 - 117		
Chlorobenzene	108-90-7	MSD	399	0	400	99.8	85 - 117	RPD 10.50 (Max-15)	
Chloroform	67-66-3	MS	424	0	400	106	78 - 122		
Chloroform	67-66-3	MSD	396	0	400	99.1	78 - 122	RPD 6.76 (Max-16)	
Tetrachloroethene	127-18-4	MS	433	0	400	108	72 - 124		
Tetrachloroethene	127-18-4	MSD	393	0	400	98.3	72 - 124	RPD 9.68 (Max-38)	
Trichloroethene	79-01-6	MS	423	0	400	106	77 - 124		
Trichloroethene	79-01-6	MSD	389	0	400	97.2	77 - 124	RPD 8.49 (Max-18)	
Vinyl Chloride	75-01-4	MS	482	0	400	121	27 - 138		
Vinyl Chloride	75-01-4	MSD	498	0	400	125	27 - 138	RPD 3.24 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	643	600	107	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	615	600	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	566	600	94.3	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	584	600	97.3	79 - 114	
Dibromofluoromethane	1868-53-7	MS	616	600	103	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	586	600	97.6	78 - 116	
Toluene-d8	2037-26-5	MS	622	600	104	76 - 127	
Toluene-d8	2037-26-5	MSD	582	600	96.9	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Method Blank 3924370 (MB) Created on 12/30/2024 19:48 For QC Batch 1362194

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	0.40J	ug/L	1.0	J
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.9	30	110	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.9	30	99.6	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	31.5	30	105	78 - 116	
Toluene-d8	2037-26-5	BLK	32.6	30	109	76 - 127	

Lab Control Standard 3924371 (LCS) Created on 12/30/2024 19:48 For QC Batch 1362194

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.4		20	107	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.8		20	109	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.7		20	109	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.9		20	99.5	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.2		20	106	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	20.5		20	103	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.9		20	109	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	21.9		20	109	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.7		20	103	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	21.6		20	108	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	22.8		20	114	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.3		20	102	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.5		20	97.3	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.1		20	101	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	20.9		20	105	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.1		20	100	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.3		20	101	81 - 116		
2-Butanone	78-93-3	LCS	99.2		100	99.2	50 - 152		
2-Hexanone	591-78-6	LCS	105		100	105	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	106		100	106	71 - 146		
Acetone	67-64-1	LCS	104		100	104	40 - 151		
Benzene	71-43-2	LCS	19.8		20	99.2	80 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	22		20	110	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.9		20	110	79 - 126		
Bromoform	75-25-2	LCS	21.4		20	107	70 - 123		
Bromomethane	74-83-9	LCS	17		20	84.9	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.2		20	106	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.3		20	96.5	62 - 132		
Chlorobenzene	108-90-7	LCS	20.6		20	103	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.7		20	98.5	77 - 122		
Chloroethane	75-00-3	LCS	23.8		20	119	51 - 142		
Chloroform	67-66-3	LCS	19.8		20	98.8	78 - 122		
Chloromethane	74-87-3	LCS	18		20	89.9	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.5		20	102	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.3		20	91.3	81 - 121		
Cyclohexane	110-82-7	LCS	21.1		20	105	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	18.8		20	93.9	17 - 166		
Ethylbenzene	100-41-4	LCS	21.1		20	106	80 - 124		
Freon 113	76-13-1	LCS	21.4		20	107	50 - 130		
Isopropylbenzene	98-82-8	LCS	23		20	115	73 - 129		
Methyl acetate	79-20-9	LCS	23.1		20	116	70 - 130		
Methyl cyclohexane	108-87-2	LCS	20.7		20	103	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	21.1		20	105	69 - 115		
Methylene Chloride	75-09-2	LCS	20.7		20	104	76 - 121		
mp-Xylene	108383/106423	LCS	41.8		40	105	79 - 125		
o-Xylene	95-47-6	LCS	21		20	105	79 - 124		
Styrene	100-42-5	LCS	18.4		20	92	79 - 123		
Tetrachloroethene	127-18-4	LCS	24.1		20	121	72 - 124		
Toluene	108-88-3	LCS	20.9		20	105	80 - 125		
Total Xylenes	1330-20-7	LCS	62.8		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.1		20	100	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	18.5		20	92.3	78 - 126		
Trichloroethene	79-01-6	LCS	19.5		20	97.3	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	24		20	120	38 - 123		
Vinyl Chloride	75-01-4	LCS	21		20	105	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.4	30	98	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	27.4	30	91.3	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.6	30	98.7	78 - 116	
Toluene-d8	2037-26-5	LCS	29.7	30	98.9	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1356934	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Matrix Spike 3920243 (MS) 3392478004 (non-Project Sample) For QC Batch 1356934

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920244 (MSD) 3392478004 (non-Project Sample) For QC Batch 1356934

Matrix Spike 3920247 (MS) 3392683002 (non-Project Sample) For QC Batch 1356934

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	3	0	2.50	122*	80 - 120		

Method Blank 3920241 (MB) Created on 12/18/2024 13:43 For QC Batch 1356934

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920242 (LCS) Created on 12/18/2024 13:43 For QC Batch 1356934

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	51.3		50	103	90 - 110		

Lab Control Standard 3920245 (LCS) Created on 12/18/2024 13:43 For QC Batch 1356934

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	103	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.4		50	103	90 - 110		

Method Blank 3920246 (MB) Created on 12/18/2024 13:43 For QC Batch 1356934

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920248 (LCS) Created on 12/18/2024 13:43 For QC Batch 1356934

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.6		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	52.4		50	105	90 - 110		

Method Blank 3920249 (MB) Created on 12/18/2024 13:43 For QC Batch 1356934

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3920273 (MS) 3392812006 For QC Batch 1356934

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920274 (MSD) 3392812006 For QC Batch 1356934

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	13.6	1.40	10	122*	80 - 120		
Chloride	Cl	MSD	13.2	1.40	10	117	80 - 120	RPD 3.17 (Max-20)	
Nitrate-N	NO3	MS	1.8	0.64	1	115	80 - 120		
Nitrate-N	NO3	MSD	1.7	0.64	1	110	80 - 120	RPD 2.43 (Max-20)	
Sulfate	SO4	MS	27.2	14.60	10	126*	80 - 120		
Sulfate	SO4	MSD	26.8	14.60	10	122*	80 - 120	RPD 1.52 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

Lab Control Standard 3920275 (LCS) Created on 12/18/2024 14:13 For QC Batch 1356934

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.6		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.2		50	104	90 - 110		

Method Blank 3920276 (MB) Created on 12/18/2024 14:13 For QC Batch 1356934

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1357303	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392812001 3392812002 3392812003 3392812004 3392812005

Matrix Spike 3920628 (MS) 3392908001 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920629 (MSD) 3392908001 (non-Project Sample) For QC Batch 1357303

Matrix Spike 3920850 (MS) 3392903001 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	26.4	15.40	10	110	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3920853 (MS) 3392903002 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920854 (MSD) 3392903002 (non-Project Sample) For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	12	0.91	10	111	80 - 120		
Sulfate	SO4	MSD	12.1	0.91	10	111	80 - 120	RPD 0.58 (Max-20)	

Matrix Spike 3920857 (MS) 3392903010 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	20	8.30	10	117	80 - 120		

Matrix Spike 3920860 (MS) 3392903014 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920861 (MSD) 3392903014 (non-Project Sample) For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	28.1	16.30	10	118	80 - 120		
Sulfate	SO4	MSD	28	16.30	10	117	80 - 120	RPD 0.32 (Max-20)	

Matrix Spike 3920994 (MS) 3392861001 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	2.5	1.30	1	116	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3921110 (MS) 3393066007 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921111 (MSD) 3393066007 (non-Project Sample) For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	207	180	25	NC	80 - 120		
Chloride	Cl	MSD	207	180	25	NC	80 - 120	RPD 0.32 (Max-20)	
Nitrate-N	NO3	MS	2.9	0	2.50	115	80 - 120		
Nitrate-N	NO3	MSD	2.9	0	2.50	116	80 - 120	RPD 0.69 (Max-20)	

Method Blank 3920471 (MB) Created on 12/19/2024 06:33 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920472 (LCS) Created on 12/19/2024 06:33 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.5		50	101	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	101	90 - 110		
Sulfate	SO4	LCS	50.8		50	102	90 - 110		

Lab Control Standard 3920630 (LCS) Created on 12/19/2024 08:08 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	51.3		50	103	90 - 110		

Method Blank 3920631 (MB) Created on 12/19/2024 08:08 For QC Batch 1357303

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920851 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.1		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	103	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Method Blank 3920852 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920855 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.3		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	103	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Method Blank 3920856 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3920858 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.6		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.9		50	104	90 - 110		

Method Blank 3920859 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920862 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.4		50	105	90 - 110		

Method Blank 3920863 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920995 (LCS) Created on 12/19/2024 12:09 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.8		50	106	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3920996 (MB) Created on 12/19/2024 12:09 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921112 (LCS) Created on 12/19/2024 13:35 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.3		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

Method Blank 3921113 (MB) Created on 12/19/2024 13:35 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1357327	Prep Method	N/A
Date Tech.	N/A	Analysis Method	SM2130B-2011

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Method Blank 3920612 (MB) Created on 12/19/2024 07:58 For QC Batch 1357327

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3920614 (DUP) 3392812001 For QC Batch 1357327

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	27	28	RPD	3.64 (Max-10)	

Method Blank 3920615 (MB) Created on 12/19/2024 07:58 For QC Batch 1357327

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1358148	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3392812001 3392812002 3392812003

Duplicate 3921735 (DUP) 3392720002 (non-Project Sample) For QC Batch 1358148

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	330	388	RPD	16.20* (Max-5)	

Duplicate 3921736 (DUP) 3392722002 (non-Project Sample) For QC Batch 1358148

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	322	322	RPD	0 (Max-5)	

Method Blank 3921490 (MB) Created on 12/20/2024 09:05 For QC Batch 1358148

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3921491 (LCS) Created on 12/20/2024 09:05 For QC Batch 1358148

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	479		500	95.8	90 - 110		

QC Batch

QC Batch	1358150	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3392812004 3392812005 3392812006

Duplicate 3921737 (DUP) 3392822001 (non-Project Sample) For QC Batch 1358150

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	426	408	RPD	4.32 (Max-5)	

Duplicate 3921738 (DUP) 3392869001 (non-Project Sample) For QC Batch 1358150

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	358	382	RPD	6.49* (Max-5)	

Method Blank 3921498 (MB) Created on 12/20/2024 09:07 For QC Batch 1358150

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3921499 (LCS) Created on 12/20/2024 09:07 For QC Batch 1358150

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	489		500	97.8	90 - 110		

QC Batch

QC Batch	1359756	Prep Method	N/A
Date	N/A	Analysis Method	S4500HB-11
Tech.			

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Duplicate 3922691 (DUP) 3392161001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	210.64	203.12	RPD	3.63	(Max-20)	
pH	PH	DUP	8.2560	8.2480	RPD	0.10	(Max-10)	

Duplicate 3922695 (DUP) 3392161011 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	505.20	489.20	RPD	3.22	(Max-20)	
pH	PH	DUP						

Duplicate 3922696 (DUP) 3392316001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	314.04	302.40	RPD	3.78	(Max-20)	
pH	PH	DUP						

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922700 (DUP) 3392379005 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	274.52	270.04	RPD	1.65	(Max-20)	
pH	PH	DUP						

Duplicate 3922701 (DUP) 3392402001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	122.64	120.24	RPD	1.98	(Max-20)	
pH	PH	DUP						

Duplicate 3922705 (DUP) 3392589001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	68.48	67.16	RPD	1.95	(Max-20)	
pH	PH	DUP	8.09	8.0960	RPD	0.07	(Max-10)	

Duplicate 3922709 (DUP) 3392622001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)				Qualifiers
pH	PH	DUP	3.8370	5.2310	RPD	30.70*	(Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922713 (DUP) 3392641005 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	30.68	30.64	RPD	0.13	(Max-20)	
pH	PH	DUP	7.4010	7.3550	RPD	0.62	(Max-10)	

Duplicate 3922717 (DUP) 3392641015 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	29.40	29.20	RPD	0.68	(Max-20)	
pH	PH	DUP	7.6850	7.6690	RPD	0.21	(Max-10)	

Duplicate 3922721 (DUP) 3392641025 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	95.92	96.84	RPD	0.95	(Max-20)	
pH	PH	DUP	8.2880	8.2750	RPD	0.16	(Max-10)	

Duplicate 3922725 (DUP) 3392711003 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3922687 (MB) Created on 12/23/2024 16:10 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922693 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922698 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922703 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922707 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922711 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922715 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922719 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922723 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922727 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3922729 (DUP) 3392812006 For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	210.28	210.40	RPD	0.06	(Max-20)	
pH	PH	DUP	8.4680	8.4550	RPD	0.15	(Max-10)	

Method Blank 3922731 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1360767	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Duplicate 3923241 (DUP) 3392641021 (non-Project Sample) For QC Batch 1360767

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Acidity, Total	ACID-T	DUP	1	1	RPD	0	(Max-20)	ND

Method Blank 3923240 (MB) Created on 12/26/2024 12:37 For QC Batch 1360767

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3923243 (MB) Created on 12/26/2024 12:37 For QC Batch 1360767

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3923244 (DUP) 3392812004 For QC Batch 1360767

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Acidity, Total	ACID-T	DUP	46	50	RPD	8.33	(Max-20)	

Method Blank 3923246 (MB) Created on 12/26/2024 12:37 For QC Batch 1360767

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1362186	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3392812001 3392812002 3392812003 3392812004
3392812005 3392812006

Duplicate 3924352 (DUP) 3393066001 (non-Project Sample) For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	2042	2034	RPD	0.39	(Max-10)	

Duplicate 3924354 (DUP) 3394009002 (non-Project Sample) For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	998	1001	RPD	0.30	(Max-10)	

Duplicate 3924356 (DUP) 3393197002 (non-Project Sample) For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	537	535	RPD	0.37	(Max-10)	

Duplicate 3924350 (DUP) 3392812002 For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	2870	3210	RPD	11.20* (Max-10)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392812001	MW-9D	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1358090	12/20/2024 07:49	AJN	SW846 7470A	1358249
		SW846 7470A	1358092	12/20/2024 07:49	AJN	SW846 7470A	1358251
		SW846 3510C	1358115	12/20/2024 09:55	EJH	SW846 8270E	1363674
		N/A	N/A	N/A		SW846 8260D	1362194
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1357327
		N/A	N/A	N/A		SM2310B-2011	1360767
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1358148
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1356934
		N/A	N/A	N/A		SW846 9056A	1357303
3392812002	MW-27S	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1358090	12/20/2024 07:49	AJN	SW846 7470A	1358249
		SW846 7470A	1358092	12/20/2024 07:49	AJN	SW846 7470A	1358251
		SW846 3510C	1359732	12/23/2024 16:15	BMP	SW846 8270E	1362174
		SW846 3510C	1359732	12/23/2024 16:15	BMP	SW846 8270E	1363674
		N/A	N/A	N/A		SW846 8260D	1362194
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1357327
		N/A	N/A	N/A		SM2310B-2011	1360767
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1358148
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1356934
		N/A	N/A	N/A		SW846 9056A	1357303
3392812003	MW-27D	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1358090	12/20/2024 07:49	AJN	SW846 7470A	1358249
		SW846 7470A	1358092	12/20/2024 07:49	AJN	SW846 7470A	1358251
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		N/A	N/A	N/A		SW846 8260D	1362194
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1357327
		N/A	N/A	N/A		SM2310B-2011	1360767
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1358148
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1356934
		N/A	N/A	N/A		SW846 9056A	1357303

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392812004	MW-36S	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1358090	12/20/2024 07:49	AJN	SW846 7470A	1358249
		SW846 7470A	1358092	12/20/2024 07:49	AJN	SW846 7470A	1358251
		SW846 3510C	1359732	12/23/2024 16:15	BMP	SW846 8270E	1362174
		SW846 3510C	1359732	12/23/2024 16:15	BMP	SW846 8270E	1363674
		N/A	N/A	N/A		SW846 8260D	1361065
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1357327
		N/A	N/A	N/A		SM2310B-2011	1360767
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1358150
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1356934
		N/A	N/A	N/A		SW846 9056A	1357303
3392812005	MW-36D	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1358090	12/20/2024 07:49	AJN	SW846 7470A	1358249
		SW846 7470A	1358092	12/20/2024 07:49	AJN	SW846 7470A	1358251
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		N/A	N/A	N/A		SW846 8260D	1361065
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1357327
		N/A	N/A	N/A		SM2310B-2011	1360767
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1358150
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1356934
		N/A	N/A	N/A		SW846 9056A	1357303
3392812006	MW-42	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1358090	12/20/2024 07:49	AJN	SW846 7470A	1358249
		SW846 7470A	1358092	12/20/2024 07:49	AJN	SW846 7470A	1358251
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361065
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1357327
		N/A	N/A	N/A		SM2310B-2011	1360767
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1358150
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1356934
3392812007	TB-45	N/A	N/A	N/A		SW846 8260D	1361065

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3392812 Logged By: EXP PM: EXP 1 of 2

ALS Quote

Client Name: Michael Baker Intl.
Address: 100 Airside Drive Moon Twp., PA
Contact: C. Kupfer
Phone#: 412-269-6300
Project Name/#: Erie Coke Works
Bill To:
Purchase Order #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

Container Type	G	G	P	P	P						
Container Size	3 40 ml	1 500 ml	4 125 ml	2 1L	1L						
Preservative	HCl	—	HNO_3	—	UNP						

DD 12/18/24

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.						
	Enter Number of Containers Per Sample or Field Results Below.																
1	MW-9D	12/17/24	0900		G	GW	3	X	X	X	X						
2	MW-27S		0920				X	X	X	X	X						
3	MW-27D		1110				X	X	X	X	X						
4	MW-36S		0920				X	X	X	X	X						
5	MW-36D		1110				X	X	X	X	X						
6	MW-42	↓	1500		↓	↓	X	X	X	X	X						
7	TB-45	—	—		—	—	X										
8																	
9																	
10																	

DD 12/18/24

Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #_____
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks
*All of the samples are considered "Hot" except MW-42

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/17/24	1730	1	Dave Gaviglia / MBI	2	FEDEX
		3	FEDEX	4	DD/ALS 12/18/24 0942
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type:

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

Middletown Sample Condition Form

Client Michael Baker INTL. Workorder 3392812

Temp °C 5° Therm ID 571 Ice? (Y) N N/A Initials & Date DD 12/18/24

(Fedex) UPS Client ALS Other Tracking # 2834 2944 6645 2834 2944 6656

	Yes	No	N/A	Comments
Cooler Custody Seals present & intact		X		
Sample Custody Seals present & intact		X		
Chain-of-Custody present	X			
Sample collector name present		X		
COC/bottle labels complete & in agreement	X			
•Sample location	X			
•Date and time of sample collection	X			
•Type(s) of preservation	X			
•Number of containers		X		
•Composite or grab	X			
•Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			8260 TB
Field blanks present (Hg 1631, PFAS)		X	X	
NJ ≤ 4 Days	DD 12/18/24	X	X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

Rad Screen (uCi) _____

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke Works 188511-3020
Workorder 3393066
Report ID 380554 on 1/10/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 19, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3393066001	MW-34S	Ground Water	12/18/2024 09:10	12/19/2024 09:26	CBC	Collected By Client
3393066002	MW-34S-DUP	Ground Water	12/18/2024 09:20	12/19/2024 09:26	CBC	Collected By Client
3393066003	MW-34D	Ground Water	12/18/2024 11:20	12/19/2024 09:26	CBC	Collected By Client
3393066004	MW-10S	Ground Water	12/18/2024 12:50	12/19/2024 09:26	CBC	Collected By Client
3393066005	MW-26S	Ground Water	12/18/2024 09:25	12/19/2024 09:26	CBC	Collected By Client
3393066006	MW-26D	Ground Water	12/18/2024 10:50	12/19/2024 09:26	CBC	Collected By Client
3393066007	MW-10D	Ground Water	12/18/2024 12:15	12/19/2024 09:26	CBC	Collected By Client
3393066008	TB-46	Ground Water	12/18/2024 12:15	12/19/2024 09:26	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2,4-Dinitrophenol. The % Recovery was reported as 71 and the control limits were 80 to 120.
2	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2,3,4,6-Tetrachlorophenol. The % Recovery was reported as 131 and the control limits were 80 to 120.
3	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
4	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
5	Analyte was analyzed past the 28 day holding time.
6	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.

Detected Results Summary

Client Sample ID	MW-34S	Collected	12/18/2024 09:10
Lab Sample ID	3393066001	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.17	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.0061J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0071J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.032	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.033	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	171	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	158	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0041J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.18	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	1.0	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	44.3	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	43.1	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.48	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.39	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	5.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	5.4	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.037	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.044	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	191	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	189	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	64.0	ug/L	7.5	1.3	SW846 8270E	#
2-Methylnaphthalene	52.2	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthene	7.0	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	14.3	ug/L	3.8	0.63	SW846 8270E	#
Acetophenone	5.8J	ug/L	7.5	2.3	SW846 8270E	#
Anthracene	3.8	ug/L	3.8	0.63	SW846 8270E	#
Biphenyl	17.4	ug/L	7.5	0.63	SW846 8270E	#
Carbazole	113	ug/L	7.5	0.63	SW846 8270E	#
Dibenzofuran	38.4	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	2.7J	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	30.8	ug/L	3.8	0.63	SW846 8270E	#
mp-Cresol	16.8	ug/L	7.5	1.3	SW846 8270E	#
Naphthalene	3550	ug/L	188	81.3	SW846 8270E	#
o-Cresol	7.0J	ug/L	7.5	1.3	SW846 8270E	#
Phenanthrene	29.6	ug/L	3.8	0.63	SW846 8270E	#
Phenol	24.3	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	1.5J	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	312	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	77.3	ug/L	50.0	10.0	SW846 8260D	#
Benzene	3370	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	165	ug/L	50.0	17.0	SW846 8260D	#
Isopropylbenzene	16.0J	ug/L	50.0	11.0	SW846 8260D	#
mp-Xylene	563	ug/L	100	26.0	SW846 8260D	#

Detected Results Summary

Sample - MW-34S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
o-Xylene	328	ug/L	50.0	16.5	SW846 8260D	#
Styrene	31.5J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	431	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	891	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	18	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	493	mg/L	50	50	SM2320B-2011	#
Chloride	123	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	2.8	mg/L	2.5	0.80	SW846 9056A	#
pH	8.20	pH_Units			S4500HB-11	#
Specific Conductance	2030	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	444	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1020	mg/L	25	25	SM2540C-15	#
Turbidity	380	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-34S-DUP	Collected	12/18/2024 09:20
Lab Sample ID	3393066002	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.17	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.0059J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.033	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.033	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	172	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	157	mg/L	0.11	0.036	SW846 6010C	#
Copper, Total	0.0044J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.19	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	1.0	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	44.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	42.9	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.48	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.39	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	5.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	5.4	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.036	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.042	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	191	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	188	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	55.4	ug/L	7.5	1.3	SW846 8270E	#
2-Methylnaphthalene	47.0	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthene	5.9	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	10.6	ug/L	3.8	0.63	SW846 8270E	#
Acetophenone	4.4J	ug/L	7.5	2.3	SW846 8270E	#
Anthracene	3.1J	ug/L	3.8	0.63	SW846 8270E	#
Biphenyl	15.0	ug/L	7.5	0.63	SW846 8270E	#
Carbazole	101	ug/L	7.5	0.63	SW846 8270E	#
Dibenzofuran	33.8	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	2.3J	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	27.0	ug/L	3.8	0.63	SW846 8270E	#
mp-Cresol	13.1	ug/L	7.5	1.3	SW846 8270E	#
Naphthalene	3120	ug/L	188	81.3	SW846 8270E	#
o-Cresol	6.4J	ug/L	7.5	1.3	SW846 8270E	#
Phenanthrene	27.8	ug/L	3.8	0.63	SW846 8270E	#
Phenol	21.7	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	1.2J	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	146	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	42.7J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	3550	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	100	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	381	ug/L	100	26.0	SW846 8260D	#
o-Xylene	239	ug/L	50.0	16.5	SW846 8260D	#
Styrene	31.9J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	442	ug/L	50.0	11.5	SW846 8260D	#

Detected Results Summary

Sample - MW-34S-DUP (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Total Xylenes	619	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	17	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	506	mg/L	50	50	SM2320B-2011	#
Chloride	124	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	3.3	mg/L	2.5	0.80	SW846 9056A	#
pH	8.26	pH_Units			S4500HB-11	#
Specific Conductance	2050	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	453	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1170	mg/L	25	25	SM2540C-15	#
Turbidity	360	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-34D	Collected	12/18/2024 11:20
Lab Sample ID	3393066003	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0094	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0052J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.034	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.035	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	156	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	152	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0027J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0037J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.24	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.30	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	45.0	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	44.2	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.21	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.21	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	7.9	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	8.0	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.042	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	194	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	196	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	97.4	ug/L	7.5	1.3	SW846 8270E	#
2-Methylnaphthalene	429	ug/L	188	31.3	SW846 8270E	#
4-Nitrophenol	4.9J	ug/L	7.5	2.8	SW846 8270E	#
Acenaphthene	11.3	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	85.6	ug/L	3.8	0.63	SW846 8270E	#
Acetophenone	7.3J	ug/L	7.5	2.3	SW846 8270E	#
Anthracene	22.6	ug/L	3.8	0.63	SW846 8270E	#
Biphenyl	53.1	ug/L	7.5	0.63	SW846 8270E	#
Carbazole	311J	ug/L	375	31.3	SW846 8270E	#
Dibenzofuran	125	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	13.5	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	123	ug/L	3.8	0.63	SW846 8270E	#
mp-Cresol	27.6	ug/L	7.5	1.3	SW846 8270E	#
Naphthalene	9800	ug/L	188	81.3	SW846 8270E	#
Nitrobenzene	10.4	ug/L	7.5	1.5	SW846 8270E	#
o-Cresol	28.3	ug/L	7.5	1.3	SW846 8270E	#
Phenanthrene	114	ug/L	3.8	0.63	SW846 8270E	#
Phenol	29.5	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	7.9	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	151	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	59.7	ug/L	50.0	10.0	SW846 8260D	#
Benzene	3810	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	104	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	405	ug/L	100	26.0	SW846 8260D	#
o-Xylene	239	ug/L	50.0	16.5	SW846 8260D	#

Detected Results Summary

Sample - MW-34D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Styrene	63.4	ug/L	50.0	12.0	SW846 8260D	#
Toluene	648	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	643	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	7	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	506	mg/L	50	50	SM2320B-2011	#
Chloride	104	mg/L	5.0	2.2	SW846 9056A	#
pH	8.43	pH_Units			S4500HB-11	#
Specific Conductance	1950	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	450	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1500	mg/L	25	25	SM2540C-15	#
Turbidity	550	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-10S	Collected	12/18/2024 12:50
Lab Sample ID	3393066004	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0080J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0082J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.022	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.022	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	226	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	220	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0053J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.30	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.34	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	59.1	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	58.1	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.17	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.17	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	2.3	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	2.3	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.020J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	183	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	182	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	267	ug/L	150	25.0	SW846 8270E	#
2-Methylnaphthalene	88.9	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	4.0	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	3.7	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	9.5	ug/L	3.0	0.90	SW846 8270E	#
Anthracene	4.3	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	13.8	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	131J	ug/L	150	12.5	SW846 8270E	#
Dibenzofuran	30.7	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	3.9	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	27.4	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	92.2	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	3490	ug/L	75.0	32.5	SW846 8270E	#
Nitrobenzene	115	ug/L	3.0	0.58	SW846 8270E	#
o-Cresol	268	ug/L	150	25.0	SW846 8270E	#
Phenanthrene	30.0	ug/L	1.5	0.25	SW846 8270E	#
Phenol	38.5	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	2.2	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	155	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	62.7	ug/L	50.0	10.0	SW846 8260D	#
Benzene	4640	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	87.4	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	406	ug/L	100	26.0	SW846 8260D	#
o-Xylene	205	ug/L	50.0	16.5	SW846 8260D	#
Styrene	22.0J	ug/L	50.0	12.0	SW846 8260D	#

Detected Results Summary

Sample - MW-10S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Toluene	711	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	612	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	22	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	468	mg/L	50	50	SM2320B-2011	#
Chloride	96.5	mg/L	5.0	2.2	SW846 9056A	#
pH	8.37	pH_Units			S4500HB-11	#
Specific Conductance	2530	umhos/cm	50	1	SW846 9050A	#
Sulfate	746	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1240	mg/L	25	25	SM2540C-15	#
Turbidity	290	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-26S	Collected	12/18/2024 09:25
Lab Sample ID	3393066005	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0050J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0073J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.027	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.027	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	165	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	163	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.016	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0039J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.17	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.14	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	59.0	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	58.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.23	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.22	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.5	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.5	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.022J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	150	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	151	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	3810	ug/L	150	25.0	SW846 8270E	#
2-Methylnaphthalene	470	ug/L	75.0	12.5	SW846 8270E	#
Acenaphthene	12.4	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	14.0	ug/L	3.8	0.63	SW846 8270E	#
Anthracene	19.4	ug/L	3.8	0.63	SW846 8270E	#
Biphenyl	42.9	ug/L	7.5	0.63	SW846 8270E	#
Caprolactam	2.2J	ug/L	7.5	0.90	SW846 8270E	#
Carbazole	401	ug/L	150	12.5	SW846 8270E	#
Dibenzofuran	101	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	11.8	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	97.9	ug/L	3.8	0.63	SW846 8270E	#
mp-Cresol	639	ug/L	150	25.0	SW846 8270E	#
Naphthalene	12900	ug/L	750	325	SW846 8270E	#
o-Cresol	5570	ug/L	150	25.0	SW846 8270E	#
Phenanthrene	97.2	ug/L	3.8	0.63	SW846 8270E	#
Phenol	329	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	6.5	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	534	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	201	ug/L	50.0	10.0	SW846 8260D	#
Benzene	14400	ug/L	500	115	SW846 8260D	#
Ethylbenzene	1040	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	894	ug/L	100	26.0	SW846 8260D	#
o-Xylene	452	ug/L	50.0	16.5	SW846 8260D	#
Styrene	19.7J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	1190	ug/L	50.0	11.5	SW846 8260D	#

Detected Results Summary

Sample - MW-26S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Total Xylenes	1350	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	14	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	486	mg/L	50	50	SM2320B-2011	#
Chloride	101	mg/L	5.0	2.2	SW846 9056A	#
pH	8.29	pH_Units			S4500HB-11	#
Specific Conductance	3120	umhos/cm	50	1	SW846 9050A	#
Sulfate	685	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1200	mg/L	25	25	SM2540C-15	#
Turbidity	450	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-26D	Collected	12/18/2024 10:50
Lab Sample ID	3393066006	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0072J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.024	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.024	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	252	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	247	mg/L	0.11	0.036	SW846 6010C	#
Copper, Total	0.0043J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.29	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.31	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	58.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	57.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.52	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.49	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	4.0	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.8	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.021J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	88.3	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	88.6	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	563	ug/L	7.5	1.3	SW846 8270E	#
2-Methylnaphthalene	312	ug/L	37.5	6.3	SW846 8270E	#
Acenaphthene	8.5	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	2.2J	ug/L	3.8	0.63	SW846 8270E	#
Anthracene	16.6	ug/L	3.8	0.63	SW846 8270E	#
Biphenyl	29.9	ug/L	7.5	0.63	SW846 8270E	#
Carbazole	345	ug/L	75.0	6.3	SW846 8270E	#
Dibenzofuran	72.4	ug/L	7.5	0.63	SW846 8270E	#
Diethylphthalate	0.71J	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	8.4	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	79.4	ug/L	3.8	0.63	SW846 8270E	#
mp-Cresol	92.8	ug/L	7.5	1.3	SW846 8270E	#
Naphthalene	7310	ug/L	375	163	SW846 8270E	#
o-Cresol	909	ug/L	75.0	12.5	SW846 8270E	#
Phenanthrene	70.5	ug/L	3.8	0.63	SW846 8270E	#
Phenol	42.4	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	4.7	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	679	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	172	ug/L	50.0	10.0	SW846 8260D	#
Benzene	4060	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	587	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	483	ug/L	100	26.0	SW846 8260D	#
o-Xylene	267	ug/L	50.0	16.5	SW846 8260D	#
Styrene	16.6J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	340	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	750	ug/L	150	33.0	SW846 8260D	#

Detected Results Summary

Sample - MW-26D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Acidity, Total	52	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	534	mg/L	50	50	SM2320B-2011	#
Chloride	37.2	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	2.0J	mg/L	2.5	0.80	SW846 9056A	#
pH	8.23	pH_Units			S4500HB-11	#
Specific Conductance	2030	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	598	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1320	mg/L	25	25	SM2540C-15	#
Turbidity	22	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-10D	Collected	12/18/2024 12:15
Lab Sample ID	3393066007	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.010	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0043J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.025	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.025	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	166	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	168	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0029J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.29	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.47	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	73.5	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	73.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.068	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.069	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.2	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	239	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	236	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	2530	ug/L	75.0	12.5	SW846 8270E	#
2-Methylnaphthalene	349	ug/L	37.5	6.3	SW846 8270E	#
Acenaphthene	10.3	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	26.2	ug/L	3.8	0.63	SW846 8270E	#
Anthracene	13.5	ug/L	3.8	0.63	SW846 8270E	#
Biphenyl	39.6	ug/L	7.5	0.63	SW846 8270E	#
Carbazole	360	ug/L	75.0	6.3	SW846 8270E	#
Dibenzofuran	82.2	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	11.1	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	70.2	ug/L	3.8	0.63	SW846 8270E	#
mp-Cresol	2060	ug/L	75.0	12.5	SW846 8270E	#
Naphthalene	11900	ug/L	3750	1630	SW846 8270E	#
o-Cresol	3640	ug/L	75.0	12.5	SW846 8270E	#
Phenanthrene	71.4	ug/L	3.8	0.63	SW846 8270E	#
Phenol	351	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	7.0	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	170	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	76.7	ug/L	50.0	10.0	SW846 8260D	#
Benzene	10400	ug/L	250	57.5	SW846 8260D	#
Ethylbenzene	107	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	604	ug/L	100	26.0	SW846 8260D	#
o-Xylene	283	ug/L	50.0	16.5	SW846 8260D	#
Styrene	25.9J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	1500	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	887	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						

Detected Results Summary

Sample - MW-10D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Acidity, Total	11	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	403	mg/L	5	5	SM2320B-2011	#
Chloride	180	mg/L	5.0	2.2	SW846 9056A	#
pH	8.37	pH_Units			S4500HB-11	#
Specific Conductance	2650	umhos/cm	50	1	SW846 9050A	#
Sulfate	836	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1530	mg/L	25	25	SM2540C-15	#
Turbidity	380	NTU	0.30	0.30	SM2130B-2011	#

Results

Client Sample ID	MW-34S	Collected	12/18/2024 09:10
Lab Sample ID	3393066001	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Aluminum, Total	0.17		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Arsenic, Dissolved	0.0061J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Arsenic, Total	0.0071J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:26	MSY	E1
Barium, Dissolved	0.032		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Barium, Total	0.033		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Calcium, Dissolved	171		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Calcium, Total	158		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Chromium, Total	0.0021J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:39	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Copper, Total	0.0041J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Iron, Dissolved	0.18		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Iron, Total	1.0		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Magnesium, Dissolved	44.3		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Magnesium, Total	43.1		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Manganese, Dissolved	0.48		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Manganese, Total	0.39		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 11:00	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:37	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Potassium, Dissolved	5.7		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Potassium, Total	5.4		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Selenium, Dissolved	0.037		mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Selenium, Total	0.044		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Sodium, Dissolved	191		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Sodium, Total	189		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:18	MSY	E1

Results

Client Sample ID	MW-34S	Collected	12/18/2024 09:10
Lab Sample ID	3393066001	Lab Receipt	12/19/2024 09:26

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,4-Dimethylphenol	64.0		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	15.0	10.8	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	12/26/2024 16:29	CGS	D
2-Methylnaphthalene	52.2		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	12/26/2024 16:29	CGS	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 16:29	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
4-Nitrophenol	ND	ND	ug/L	7.5	2.8	SW846 8270E	1	12/26/2024 16:29	CGS	D
Acenaphthene	7.0		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Acenaphthylene	14.3		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Acetophenone	5.8J	J	ug/L	7.5	2.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
Anthracene	3.8		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	3.8	0.70	SW846 8270E	1	12/26/2024 16:29	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 16:29	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	3.8	0.75	SW846 8270E	1	12/26/2024 16:29	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	3.8	0.90	SW846 8270E	1	12/26/2024 16:29	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	3.8	0.85	SW846 8270E	1	12/26/2024 16:29	CGS	D
Biphenyl	17.4		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 16:29	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	12/26/2024 16:29	CGS	D
Caprolactam	ND	ND	ug/L	7.5	0.90	SW846 8270E	1	12/26/2024 16:29	CGS	D
Carbazole	113		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D

Results

Client Sample ID	MW-34S	Collected	12/18/2024 09:10
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 16:29	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	3.8	0.80	SW846 8270E	1	12/26/2024 16:29	CGS	D
Dibenzofuran	38.4		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Diethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 16:29	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Fluoranthene	2.7J	J	ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Fluorene	30.8		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	12/26/2024 16:29	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	12/26/2024 16:29	CGS	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	3.8	0.78	SW846 8270E	1	12/26/2024 16:29	CGS	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 16:29	CGS	D
mp-Cresol	16.8		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
Naphthalene	3550		ug/L	188	81.3	SW846 8270E	50	12/27/2024 13:48	CGS	D
Nitrobenzene	ND	ND	ug/L	7.5	1.5	SW846 8270E	1	12/26/2024 16:29	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	12/26/2024 16:29	CGS	D
o-Cresol	7.0J	J	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	12/26/2024 16:29	CGS	D
Phenanthrene	29.6		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Phenol	24.3		ug/L	20.0	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
Pyrene	1.5J	J	ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	70.4%	23 – 131	12/26/2024 16:29	
2-Fluorobiphenyl	321-60-8	66.3%	24 – 116	12/26/2024 16:29	
2-Fluorophenol	367-12-4	39.1%	10 – 85	12/26/2024 16:29	
Nitrobenzene-d5	4165-60-0	62.3%	32 – 125	12/26/2024 16:29	
Phenol-d5	4165-62-2	29.1%	7 – 56	12/26/2024 16:29	
Terphenyl-d14	98904-43-9	58.7%	41 – 145	12/26/2024 16:29	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 04:58	PDK	A

Results

Client Sample ID	MW-34S	Collected	12/18/2024 09:10
Lab Sample ID	3393066001	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	312		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,3,5-Trimethylbenzene	77.3		ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 04:58	PDK	A
Benzene	3370		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Ethylbenzene	165		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Isopropylbenzene	16.0J	J	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
mp-Xylene	563		ug/L	100	26.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
o-Xylene	328		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Styrene	31.5J	J	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Toluene	431		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Total Xylenes	891		ug/L	150	33.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 04:58	PDK	A

Results

Client Sample ID	MW-34S	Collected	12/18/2024 09:10
Lab Sample ID	3393066001	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	110%	62 – 133	12/28/2024 04:58	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	12/28/2024 04:58	
Dibromofluoromethane	1868-53-7	106%	78 – 116	12/28/2024 04:58	
Toluene-d8	2037-26-5	110%	76 – 127	12/28/2024 04:58	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	18	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	493	4,5	mg/L	50	50	SM2320B-2011	10	01/03/2025 10:44	KMV	I
Chloride	123		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 21:21	J1W	I
Nitrate-N	2.8		mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 21:21	J1W	I
pH	8.20	6	pH_Units			S4500HB-11	1	01/01/2025 04:19	JXK	I
Specific Conductance	2030		umhos/cm	5	0.1	SW846 9050A	1	12/30/2024 17:12	LMD	I
Sulfate	444		mg/L	5.0	3.5	SW846 9056A	5	12/19/2024 21:21	J1W	I
Total Dissolved Solids	1020		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	380		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	MW-34S-DUP	Collected	12/18/2024 09:20
Lab Sample ID	3393066002	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Aluminum, Total	0.17		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Arsenic, Dissolved	0.0059J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:27	MSY	E1
Barium, Dissolved	0.033		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Barium, Total	0.033		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Calcium, Dissolved	172		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Calcium, Total	157		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:40	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Copper, Total	0.0044J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Iron, Dissolved	0.19		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Iron, Total	1.0		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Magnesium, Dissolved	44.4		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Magnesium, Total	42.9		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Manganese, Dissolved	0.48		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Manganese, Total	0.39		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:59	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:42	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Potassium, Dissolved	5.7		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Potassium, Total	5.4		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Selenium, Dissolved	0.036		mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Selenium, Total	0.042		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Sodium, Dissolved	191		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Sodium, Total	188		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:19	MSY	E1

Results

Client Sample ID	MW-34S-DUP	Collected	12/18/2024 09:20
Lab Sample ID	3393066002	Lab Receipt	12/19/2024 09:26

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,4-Dimethylphenol	55.4		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	15.0	10.8	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	12/26/2024 16:55	CGS	D
2-Methylnaphthalene	47.0		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	12/26/2024 16:55	CGS	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 16:55	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
4-Nitrophenol	ND	ND	ug/L	7.5	2.8	SW846 8270E	1	12/26/2024 16:55	CGS	D
Acenaphthene	5.9		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Acenaphthylene	10.6		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Acetophenone	4.4J	J	ug/L	7.5	2.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
Anthracene	3.1J	J	ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	3.8	0.70	SW846 8270E	1	12/26/2024 16:55	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 16:55	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	3.8	0.75	SW846 8270E	1	12/26/2024 16:55	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	3.8	0.90	SW846 8270E	1	12/26/2024 16:55	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	3.8	0.85	SW846 8270E	1	12/26/2024 16:55	CGS	D
Biphenyl	15.0		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 16:55	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	12/26/2024 16:55	CGS	D
Caprolactam	ND	ND	ug/L	7.5	0.90	SW846 8270E	1	12/26/2024 16:55	CGS	D
Carbazole	101		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D

Results

Client Sample ID	MW-34S-DUP	Collected	12/18/2024 09:20
Lab Sample ID	3393066002	Lab Receipt	12/19/2024 09:26

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 16:55	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	3.8	0.80	SW846 8270E	1	12/26/2024 16:55	CGS	D
Dibenzofuran	33.8		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Diethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 16:55	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Fluoranthene	2.3J	J	ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Fluorene	27.0		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	12/26/2024 16:55	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	12/26/2024 16:55	CGS	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	3.8	0.78	SW846 8270E	1	12/26/2024 16:55	CGS	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 16:55	CGS	D
mp-Cresol	13.1		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
Naphthalene	3120		ug/L	188	81.3	SW846 8270E	50	12/27/2024 14:14	CGS	D
Nitrobenzene	ND	ND	ug/L	7.5	1.5	SW846 8270E	1	12/26/2024 16:55	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	12/26/2024 16:55	CGS	D
o-Cresol	6.4J	J	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	12/26/2024 16:55	CGS	D
Phenanthrene	27.8		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Phenol	21.7		ug/L	20.0	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
Pyrene	1.2J	J	ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	71%	23 – 131	12/26/2024 16:55	
2-Fluorobiphenyl	321-60-8	58.5%	24 – 116	12/26/2024 16:55	
2-Fluorophenol	367-12-4	32.8%	10 – 85	12/26/2024 16:55	
Nitrobenzene-d5	4165-60-0	52.7%	32 – 125	12/26/2024 16:55	
Phenol-d5	4165-62-2	24.4%	7 – 56	12/26/2024 16:55	
Terphenyl-d14	98904-43-9	64.8%	41 – 145	12/26/2024 16:55	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 05:17	PDK	A

Results

Client Sample ID	MW-34S-DUP	Collected	12/18/2024 09:20
Lab Sample ID	3393066002	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	146		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,3,5-Trimethylbenzene	42.7J	J	ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 05:17	PDK	A
Benzene	3550		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Ethylbenzene	100		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
mp-Xylene	381		ug/L	100	26.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
o-Xylene	239		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Styrene	31.9J	J	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Toluene	442		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Total Xylenes	619		ug/L	150	33.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 05:17	PDK	A

Results

Client Sample ID	MW-34S-DUP	Collected	12/18/2024 09:20
Lab Sample ID	3393066002	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98%	62 – 133	12/28/2024 05:17	
4-Bromofluorobenzene	460-00-4	97.8%	79 – 114	12/28/2024 05:17	
Dibromofluoromethane	1868-53-7	95.4%	78 – 116	12/28/2024 05:17	
Toluene-d8	2037-26-5	99%	76 – 127	12/28/2024 05:17	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	17	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	506	4,5	mg/L	50	50	SM2320B-2011	10	01/03/2025 10:56	KMV	I
Chloride	124		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 21:33	J1W	I
Nitrate-N	3.3		mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 21:33	J1W	I
pH	8.26	6	pH_Units			S4500HB-11	1	01/01/2025 04:58	JXK	I
Specific Conductance	2050		umhos/cm	5	0.1	SW846 9050A	1	12/30/2024 17:12	LMD	I
Sulfate	453		mg/L	5.0	3.5	SW846 9056A	5	12/19/2024 21:33	J1W	I
Total Dissolved Solids	1170		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	360		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	MW-34D	Collected	12/18/2024 11:20
Lab Sample ID	3393066003	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Arsenic, Dissolved	0.0094		mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Arsenic, Total	0.0052J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:28	MSY	E1
Barium, Dissolved	0.034		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Barium, Total	0.035		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Calcium, Dissolved	156		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Calcium, Total	152		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Chromium, Total	0.0027J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:42	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Copper, Total	0.0037J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Iron, Dissolved	0.24		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Iron, Total	0.30		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Magnesium, Dissolved	45.0		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Magnesium, Total	44.2		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Manganese, Dissolved	0.21		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Manganese, Total	0.21		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 11:03	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:44	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Potassium, Dissolved	7.9		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Potassium, Total	8.0		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Selenium, Total	0.042		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Sodium, Dissolved	194		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Sodium, Total	196		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:20	MSY	E1

Results

Client Sample ID	MW-34D	Collected	12/18/2024 11:20
Lab Sample ID	3393066003	Lab Receipt	12/19/2024 09:26

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,4-Dimethylphenol	97.4		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	15.0	10.8	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	12/26/2024 18:13	CGS	D
2-Methylnaphthalene	429		ug/L	188	31.3	SW846 8270E	50	12/27/2024 16:24	CGS	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	12/26/2024 18:13	CGS	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 18:13	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
4-Nitrophenol	4.9J	J	ug/L	7.5	2.8	SW846 8270E	1	12/26/2024 18:13	CGS	D
Acenaphthene	11.3		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Acenaphthylene	85.6		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Acetophenone	7.3J	J	ug/L	7.5	2.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
Anthracene	22.6		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	3.8	0.70	SW846 8270E	1	12/26/2024 18:13	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 18:13	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	3.8	0.75	SW846 8270E	1	12/26/2024 18:13	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	3.8	0.90	SW846 8270E	1	12/26/2024 18:13	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	3.8	0.85	SW846 8270E	1	12/26/2024 18:13	CGS	D
Biphenyl	53.1		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 18:13	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	12/26/2024 18:13	CGS	D
Caprolactam	ND	ND	ug/L	7.5	0.90	SW846 8270E	1	12/26/2024 18:13	CGS	D
Carbazole	311J	J	ug/L	375	31.3	SW846 8270E	50	12/27/2024 16:24	CGS	D

Results

Client Sample ID	MW-34D	Collected	12/18/2024 11:20
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 18:13	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	3.8	0.80	SW846 8270E	1	12/26/2024 18:13	CGS	D
Dibenzofuran	125		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Diethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 18:13	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Fluoranthene	13.5		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Fluorene	123		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	12/26/2024 18:13	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	12/26/2024 18:13	CGS	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	3.8	0.78	SW846 8270E	1	12/26/2024 18:13	CGS	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 18:13	CGS	D
mp-Cresol	27.6		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
Naphthalene	9800		ug/L	188	81.3	SW846 8270E	50	12/27/2024 16:24	CGS	D
Nitrobenzene	10.4		ug/L	7.5	1.5	SW846 8270E	1	12/26/2024 18:13	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	12/26/2024 18:13	CGS	D
o-Cresol	28.3		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	12/26/2024 18:13	CGS	D
Phenanthrene	114		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Phenol	29.5		ug/L	20.0	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
Pyrene	7.9		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	98.9%	23 – 131	12/26/2024 18:13	
2-Fluorobiphenyl	321-60-8	79%	24 – 116	12/26/2024 18:13	
2-Fluorophenol	367-12-4	50.5%	10 – 85	12/26/2024 18:13	
Nitrobenzene-d5	4165-60-0	89.1%	32 – 125	12/26/2024 18:13	
Phenol-d5	4165-62-2	37.5%	7 – 56	12/26/2024 18:13	
Terphenyl-d14	98904-43-9	64.3%	41 – 145	12/26/2024 18:13	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 05:37	PDK	A

Results

Client Sample ID	MW-34D	Collected	12/18/2024 11:20
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	151		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,3,5-Trimethylbenzene	59.7		ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 05:37	PDK	A
Benzene	3810		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Ethylbenzene	104		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
mp-Xylene	405		ug/L	100	26.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
o-Xylene	239		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Styrene	63.4		ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Toluene	648		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Total Xylenes	643		ug/L	150	33.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 05:37	PDK	A

Results

Client Sample ID	MW-34D	Collected	12/18/2024 11:20
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/28/2024 05:37	
4-Bromofluorobenzene	460-00-4	94.6%	79 – 114	12/28/2024 05:37	
Dibromofluoromethane	1868-53-7	99.9%	78 – 116	12/28/2024 05:37	
Toluene-d8	2037-26-5	102%	76 – 127	12/28/2024 05:37	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	7	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	506	4,5	mg/L	50	50	SM2320B-2011	10	01/03/2025 11:06	KMV	I
Chloride	104		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 21:44	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 21:44	J1W	I
pH	8.43	6	pH_Units			S4500HB-11	1	01/01/2025 10:11	JXK	I
Specific Conductance	1950		umhos/cm	5	0.1	SW846 9050A	1	12/30/2024 17:12	LMD	I
Sulfate	450		mg/L	5.0	3.5	SW846 9056A	5	12/19/2024 21:44	J1W	I
Total Dissolved Solids	1500		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	550		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	MW-10S	Collected	12/18/2024 12:50
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Arsenic, Dissolved	0.0080J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Arsenic, Total	0.0082J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:29	MSY	E1
Barium, Dissolved	0.022		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Barium, Total	0.022		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Calcium, Dissolved	226		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Calcium, Total	220		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Chromium, Total	0.0021J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:43	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Copper, Total	0.0053J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Iron, Dissolved	0.30		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Iron, Total	0.34		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Magnesium, Dissolved	59.1		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Magnesium, Total	58.1		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Manganese, Dissolved	0.17		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Manganese, Total	0.17		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:55	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:40	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Potassium, Dissolved	2.3		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Potassium, Total	2.3		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Selenium, Total	0.020J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Sodium, Dissolved	183		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Sodium, Total	182		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:21	MSY	E1

Results

Client Sample ID	MW-10S	Collected	12/18/2024 12:50
Lab Sample ID	3393066004	Lab Receipt	12/19/2024 09:26

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,4-Dimethylphenol	267		ug/L	150	25.0	SW846 8270E	50	12/27/2024 17:42	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	6.0	4.3	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/26/2024 19:05	CGS	D
2-Methylnaphthalene	88.9		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/26/2024 19:05	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/26/2024 19:05	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 19:05	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/26/2024 19:05	CGS	D
Acenaphthene	4.0		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Acenaphthylene	3.7		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Acetophenone	9.5		ug/L	3.0	0.90	SW846 8270E	1	12/26/2024 19:05	CGS	D
Anthracene	4.3		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/26/2024 19:05	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 19:05	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/26/2024 19:05	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/26/2024 19:05	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/26/2024 19:05	CGS	D
Biphenyl	13.8		ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 19:05	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/26/2024 19:05	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/26/2024 19:05	CGS	D
Carbazole	131J	J	ug/L	150	12.5	SW846 8270E	50	12/27/2024 17:42	CGS	D

Results

Client Sample ID	MW-10S	Collected	12/18/2024 12:50
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 19:05	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/26/2024 19:05	CGS	D
Dibenzofuran	30.7		ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 19:05	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Fluoranthene	3.9		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Fluorene	27.4		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/26/2024 19:05	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/26/2024 19:05	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/26/2024 19:05	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 19:05	CGS	D
mp-Cresol	92.2		ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
Naphthalene	3490		ug/L	75.0	32.5	SW846 8270E	50	12/27/2024 17:42	CGS	D
Nitrobenzene	115		ug/L	3.0	0.58	SW846 8270E	1	12/26/2024 19:05	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/26/2024 19:05	CGS	D
o-Cresol	268		ug/L	150	25.0	SW846 8270E	50	12/27/2024 17:42	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/26/2024 19:05	CGS	D
Phenanthrene	30.0		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Phenol	38.5		ug/L	8.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
Pyrene	2.2		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	78%	23 – 131	12/26/2024 19:05	
2-Fluorobiphenyl	321-60-8	68.6%	24 – 116	12/26/2024 19:05	
2-Fluorophenol	367-12-4	42.6%	10 – 85	12/26/2024 19:05	
Nitrobenzene-d5	4165-60-0	76.2%	32 – 125	12/26/2024 19:05	
Phenol-d5	4165-62-2	32.2%	7 – 56	12/26/2024 19:05	
Terphenyl-d14	98904-43-9	51.1%	41 – 145	12/26/2024 19:05	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 05:57	PDK	A

Results

Client Sample ID	MW-10S	Collected	12/18/2024 12:50
Lab Sample ID	3393066004	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	155		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,3,5-Trimethylbenzene	62.7		ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 05:57	PDK	A
Benzene	4640		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Ethylbenzene	87.4		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
mp-Xylene	406		ug/L	100	26.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
o-Xylene	205		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Styrene	22.0J	J	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Toluene	711		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Total Xylenes	612		ug/L	150	33.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 05:57	PDK	A

Results

Client Sample ID	MW-10S	Collected	12/18/2024 12:50
Lab Sample ID	3393066004	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.4%	62 – 133	12/28/2024 05:57	
4-Bromofluorobenzene	460-00-4	98.3%	79 – 114	12/28/2024 05:57	
Dibromofluoromethane	1868-53-7	95.5%	78 – 116	12/28/2024 05:57	
Toluene-d8	2037-26-5	97.8%	76 – 127	12/28/2024 05:57	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	22	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	468	4,5	mg/L	50	50	SM2320B-2011	10	01/03/2025 11:17	KMV	I
Chloride	96.5		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 21:56	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 21:56	J1W	I
pH	8.37	6	pH_Units			S4500HB-11	1	01/01/2025 13:00	JXK	I
Specific Conductance	2530		umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	746		mg/L	10.0	7.0	SW846 9056A	10	12/20/2024 22:06	J1W	I
Total Dissolved Solids	1240		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	290		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	MW-26S	Collected	12/18/2024 09:25
Lab Sample ID	3393066005	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Arsenic, Dissolved	0.0050J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Arsenic, Total	0.0073J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:30	MSY	E1
Barium, Dissolved	0.027		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Barium, Total	0.027		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Calcium, Dissolved	165		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Calcium, Total	163		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Chromium, Dissolved	0.016		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:49	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Copper, Total	0.0039J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Iron, Dissolved	0.17		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Iron, Total	0.14		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Magnesium, Dissolved	59.0		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Magnesium, Total	58.5		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Manganese, Dissolved	0.23		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Manganese, Total	0.22		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:52	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:36	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Potassium, Dissolved	3.5		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Potassium, Total	3.5		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Selenium, Total	0.022J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Sodium, Dissolved	150		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Sodium, Total	151		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:22	MSY	E1

Results

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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,4-Dimethylphenol	3810		ug/L	150	25.0	SW846 8270E	20	12/27/2024 14:40	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	15.0	10.8	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	12/26/2024 17:21	CGS	D
2-Methylnaphthalene	470		ug/L	75.0	12.5	SW846 8270E	20	12/27/2024 14:40	CGS	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	12/26/2024 17:21	CGS	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 17:21	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
4-Nitrophenol	ND	ND	ug/L	7.5	2.8	SW846 8270E	1	12/26/2024 17:21	CGS	D
Acenaphthene	12.4		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Acenaphthylene	14.0		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Acetophenone	ND	ND	ug/L	7.5	2.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
Anthracene	19.4		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	3.8	0.70	SW846 8270E	1	12/26/2024 17:21	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 17:21	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	3.8	0.75	SW846 8270E	1	12/26/2024 17:21	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	3.8	0.90	SW846 8270E	1	12/26/2024 17:21	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	3.8	0.85	SW846 8270E	1	12/26/2024 17:21	CGS	D
Biphenyl	42.9		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 17:21	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	12/26/2024 17:21	CGS	D
Caprolactam	2.2J	J	ug/L	7.5	0.90	SW846 8270E	1	12/26/2024 17:21	CGS	D
Carbazole	401		ug/L	150	12.5	SW846 8270E	20	12/27/2024 14:40	CGS	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 17:21	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	3.8	0.80	SW846 8270E	1	12/26/2024 17:21	CGS	D
Dibenzofuran	101		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Diethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 17:21	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Fluoranthene	11.8		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Fluorene	97.9		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	12/26/2024 17:21	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	12/26/2024 17:21	CGS	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	3.8	0.78	SW846 8270E	1	12/26/2024 17:21	CGS	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 17:21	CGS	D
mp-Cresol	639		ug/L	150	25.0	SW846 8270E	20	12/27/2024 14:40	CGS	D
Naphthalene	12900		ug/L	750	325	SW846 8270E	200	12/27/2024 15:06	CGS	D
Nitrobenzene	ND	ND	ug/L	7.5	1.5	SW846 8270E	1	12/26/2024 17:21	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	12/26/2024 17:21	CGS	D
o-Cresol	5570		ug/L	150	25.0	SW846 8270E	20	12/27/2024 14:40	CGS	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	12/26/2024 17:21	CGS	D
Phenanthrene	97.2		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Phenol	329		ug/L	20.0	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
Pyrene	6.5		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	92.3%	23 – 131	12/26/2024 17:21	
2-Fluorobiphenyl	321-60-8	75.4%	24 – 116	12/26/2024 17:21	
2-Fluorophenol	367-12-4	44.2%	10 – 85	12/26/2024 17:21	
Nitrobenzene-d5	4165-60-0	88%	32 – 125	12/26/2024 17:21	
Phenol-d5	4165-62-2	34.2%	7 – 56	12/26/2024 17:21	
Terphenyl-d14	98904-43-9	62.5%	41 – 145	12/26/2024 17:21	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 06:57	PDK	A

Results

Client Sample ID	MW-26S	Collected	12/18/2024 09:25
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	534		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,3,5-Trimethylbenzene	201		ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 06:57	PDK	A
Benzene	14400		ug/L	500	115	SW846 8260D	500	12/30/2024 23:47	PDK	B
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Ethylbenzene	1040		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
mp-Xylene	894		ug/L	100	26.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
o-Xylene	452		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Styrene	19.7J	J	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Toluene	1190		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Total Xylenes	1350		ug/L	150	33.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 06:57	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	12/28/2024 06:57	
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/30/2024 23:47	
4-Bromofluorobenzene	460-00-4	92.4%	79 – 114	12/28/2024 06:57	
4-Bromofluorobenzene	460-00-4	94.5%	79 – 114	12/30/2024 23:47	
Dibromofluoromethane	1868-53-7	103%	78 – 116	12/28/2024 06:57	
Dibromofluoromethane	1868-53-7	98.6%	78 – 116	12/30/2024 23:47	
Toluene-d8	2037-26-5	101%	76 – 127	12/28/2024 06:57	
Toluene-d8	2037-26-5	102%	76 – 127	12/30/2024 23:47	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	14	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	486	4,5	mg/L	50	50	SM2320B-2011	10	01/03/2025 11:39	KMV	I
Chloride	101		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 22:07	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 22:07	J1W	I
pH	8.29	6	pH_Units			S4500HB-11	1	01/01/2025 05:14	JXK	I
Specific Conductance	3120		umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	685		mg/L	10.0	7.0	SW846 9056A	10	12/20/2024 22:18	J1W	I
Total Dissolved Solids	1200		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	450		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	MW-26D	Collected	12/18/2024 10:50
Lab Sample ID	3393066006	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Arsenic, Dissolved	0.0072J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:32	MSY	E1
Barium, Dissolved	0.024		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Barium, Total	0.024		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Calcium, Dissolved	252		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Calcium, Total	247		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:50	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Copper, Total	0.0043J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Iron, Dissolved	0.29		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Iron, Total	0.31		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Magnesium, Dissolved	58.6		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Magnesium, Total	57.4		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Manganese, Dissolved	0.52		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Manganese, Total	0.49		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:56	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:41	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Potassium, Dissolved	4.0		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Potassium, Total	3.8		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Selenium, Total	0.021J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 10:32	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Sodium, Dissolved	88.3		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Sodium, Total	88.6		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:44	MSY	E1

Results

Client Sample ID	MW-26D	Collected	12/18/2024 10:50
Lab Sample ID	3393066006	Lab Receipt	12/19/2024 09:26

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,4-Dimethylphenol	563		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	15.0	10.8	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	12/26/2024 17:47	CGS	D
2-Methylnaphthalene	312		ug/L	37.5	6.3	SW846 8270E	10	12/27/2024 15:32	CGS	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	12/26/2024 17:47	CGS	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 17:47	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
4-Nitrophenol	ND	ND	ug/L	7.5	2.8	SW846 8270E	1	12/26/2024 17:47	CGS	D
Acenaphthene	8.5		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Acenaphthylene	2.2J	J	ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Acetophenone	ND	ND	ug/L	7.5	2.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
Anthracene	16.6		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	3.8	0.70	SW846 8270E	1	12/26/2024 17:47	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 17:47	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	3.8	0.75	SW846 8270E	1	12/26/2024 17:47	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	3.8	0.90	SW846 8270E	1	12/26/2024 17:47	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	3.8	0.85	SW846 8270E	1	12/26/2024 17:47	CGS	D
Biphenyl	29.9		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 17:47	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	12/26/2024 17:47	CGS	D
Caprolactam	ND	ND	ug/L	7.5	0.90	SW846 8270E	1	12/26/2024 17:47	CGS	D
Carbazole	345		ug/L	75.0	6.3	SW846 8270E	10	12/27/2024 15:32	CGS	D

Results

Client Sample ID	MW-26D	Collected	12/18/2024 10:50
Lab Sample ID	3393066006	Lab Receipt	12/19/2024 09:26

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 17:47	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	3.8	0.80	SW846 8270E	1	12/26/2024 17:47	CGS	D
Dibenzofuran	72.4		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Diethylphthalate	0.71J	J	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 17:47	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Fluoranthene	8.4		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Fluorene	79.4		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	12/26/2024 17:47	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	12/26/2024 17:47	CGS	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	3.8	0.78	SW846 8270E	1	12/26/2024 17:47	CGS	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 17:47	CGS	D
mp-Cresol	92.8		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
Naphthalene	7310		ug/L	375	163	SW846 8270E	100	12/27/2024 15:58	CGS	D
Nitrobenzene	ND	ND	ug/L	7.5	1.5	SW846 8270E	1	12/26/2024 17:47	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	12/26/2024 17:47	CGS	D
o-Cresol	909		ug/L	75.0	12.5	SW846 8270E	10	12/27/2024 15:32	CGS	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	12/26/2024 17:47	CGS	D
Phenanthrene	70.5		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Phenol	42.4		ug/L	20.0	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
Pyrene	4.7		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	60.3%	23 – 131	12/26/2024 17:47	
2-Fluorobiphenyl	321-60-8	54.8%	24 – 116	12/26/2024 17:47	
2-Fluorophenol	367-12-4	31.9%	10 – 85	12/26/2024 17:47	
Nitrobenzene-d5	4165-60-0	59.2%	32 – 125	12/26/2024 17:47	
Phenol-d5	4165-62-2	25.2%	7 – 56	12/26/2024 17:47	
Terphenyl-d14	98904-43-9	48.1%	41 – 145	12/26/2024 17:47	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 06:17	PDK	A

Results

Client Sample ID	MW-26D	Collected	12/18/2024 10:50
Lab Sample ID	3393066006	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	679		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,3,5-Trimethylbenzene	172		ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 06:17	PDK	A
Benzene	4060		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Ethylbenzene	587		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
mp-Xylene	483		ug/L	100	26.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
o-Xylene	267		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Styrene	16.6J	J	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Toluene	340		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Total Xylenes	750		ug/L	150	33.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 06:17	PDK	A

Results

Client Sample ID	MW-26D	Collected	12/18/2024 10:50
Lab Sample ID	3393066006	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	107%	62 – 133	12/28/2024 06:17	
4-Bromofluorobenzene	460-00-4	95.3%	79 – 114	12/28/2024 06:17	
Dibromofluoromethane	1868-53-7	104%	78 – 116	12/28/2024 06:17	
Toluene-d8	2037-26-5	102%	76 – 127	12/28/2024 06:17	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	52	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	534	4,5	mg/L	50	50	SM2320B-2011	10	01/03/2025 11:29	KMV	I
Chloride	37.2		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 22:19	J1W	I
Nitrate-N	2.0J	J	mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 22:19	J1W	I
pH	8.23	6	pH_Units			S4500HB-11	1	01/01/2025 08:54	JXK	I
Specific Conductance	2030		umhos/cm	5	0.1	SW846 9050A	1	12/30/2024 17:12	LMD	I
Sulfate	598		mg/L	10.0	7.0	SW846 9056A	10	12/20/2024 22:31	J1W	I
Total Dissolved Solids	1320		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	22		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	MW-10D	Collected	12/18/2024 12:15
Lab Sample ID	3393066007	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Arsenic, Dissolved	0.010		mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Arsenic, Total	0.0043J	J	mg/L	0.0090	0.0037	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Barium, Dissolved	0.025		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Barium, Total	0.025		mg/L	0.011	0.0036	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Calcium, Dissolved	166		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Calcium, Total	168		mg/L	0.11	0.036	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Chromium, Total	0.0029J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:51	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Iron, Dissolved	0.29		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Iron, Total	0.47		mg/L	0.067	0.022	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Magnesium, Dissolved	73.5		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Magnesium, Total	73.7		mg/L	0.11	0.036	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Manganese, Dissolved	0.068		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Manganese, Total	0.069		mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:57	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:39	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Potassium, Dissolved	3.2		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Potassium, Total	3.0		mg/L	0.56	0.18	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Sodium, Dissolved	239		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Sodium, Total	236		mg/L	0.56	0.18	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 13:35	MSY	E1

Results

Client Sample ID	MW-10D	Collected	12/18/2024 12:15
Lab Sample ID	3393066007	Lab Receipt	12/19/2024 09:26

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,4-Dimethylphenol	2530		ug/L	75.0	12.5	SW846 8270E	10	12/27/2024 16:50	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	15.0	10.8	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	12/26/2024 18:39	CGS	D
2-Methylnaphthalene	349		ug/L	37.5	6.3	SW846 8270E	10	12/27/2024 16:50	CGS	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	12/26/2024 18:39	CGS	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 18:39	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
4-Nitrophenol	ND	ND	ug/L	7.5	2.8	SW846 8270E	1	12/26/2024 18:39	CGS	D
Acenaphthene	10.3		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Acenaphthylene	26.2		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Acetophenone	ND	ND	ug/L	7.5	2.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
Anthracene	13.5		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	3.8	0.70	SW846 8270E	1	12/26/2024 18:39	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 18:39	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	3.8	0.75	SW846 8270E	1	12/26/2024 18:39	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	3.8	0.90	SW846 8270E	1	12/26/2024 18:39	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	3.8	0.85	SW846 8270E	1	12/26/2024 18:39	CGS	D
Biphenyl	39.6		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 18:39	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	12/26/2024 18:39	CGS	D
Caprolactam	ND	ND	ug/L	7.5	0.90	SW846 8270E	1	12/26/2024 18:39	CGS	D
Carbazole	360		ug/L	75.0	6.3	SW846 8270E	10	12/27/2024 16:50	CGS	D

Results

Client Sample ID	MW-10D	Collected	12/18/2024 12:15
Lab Sample ID	3393066007	Lab Receipt	12/19/2024 09:26

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 18:39	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	3.8	0.80	SW846 8270E	1	12/26/2024 18:39	CGS	D
Dibenzofuran	82.2		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Diethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 18:39	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Fluoranthene	11.1		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Fluorene	70.2		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	12/26/2024 18:39	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	12/26/2024 18:39	CGS	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	3.8	0.78	SW846 8270E	1	12/26/2024 18:39	CGS	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 18:39	CGS	D
mp-Cresol	2060		ug/L	75.0	12.5	SW846 8270E	10	12/27/2024 16:50	CGS	D
Naphthalene	11900		ug/L	3750	1630	SW846 8270E	1000	12/27/2024 17:16	CGS	D
Nitrobenzene	ND	ND	ug/L	7.5	1.5	SW846 8270E	1	12/26/2024 18:39	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	12/26/2024 18:39	CGS	D
o-Cresol	3640		ug/L	75.0	12.5	SW846 8270E	10	12/27/2024 16:50	CGS	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	12/26/2024 18:39	CGS	D
Phenanthrene	71.4		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Phenol	351		ug/L	20.0	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
Pyrene	7.0		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	87.3%	23 – 131	12/26/2024 18:39	
2-Fluorobiphenyl	321-60-8	78.9%	24 – 116	12/26/2024 18:39	
2-Fluorophenol	367-12-4	47.8%	10 – 85	12/26/2024 18:39	
Nitrobenzene-d5	4165-60-0	88%	32 – 125	12/26/2024 18:39	
Phenol-d5	4165-62-2	37%	7 – 56	12/26/2024 18:39	
Terphenyl-d14	98904-43-9	55.6%	41 – 145	12/26/2024 18:39	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 06:37	PDK	A

Results

Client Sample ID	MW-10D	Collected	12/18/2024 12:15
Lab Sample ID	3393066007	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	170		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,3,5-Trimethylbenzene	76.7		ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 06:37	PDK	A
Benzene	10400		ug/L	250	57.5	SW846 8260D	250	12/30/2024 23:27	PDK	B
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Ethylbenzene	107		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
mp-Xylene	604		ug/L	100	26.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
o-Xylene	283		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Styrene	25.9J	J	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Toluene	1500		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Total Xylenes	887		ug/L	150	33.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 06:37	PDK	A

Results

Client Sample ID	MW-10D	Collected	12/18/2024 12:15
Lab Sample ID	3393066007	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/30/2024 23:27	
1,2-Dichloroethane-d4	17060-07-0	94.3%	62 – 133	12/28/2024 06:37	
4-Bromofluorobenzene	460-00-4	98.7%	79 – 114	12/30/2024 23:27	
4-Bromofluorobenzene	460-00-4	93.3%	79 – 114	12/28/2024 06:37	
Dibromofluoromethane	1868-53-7	96.1%	78 – 116	12/30/2024 23:27	
Dibromofluoromethane	1868-53-7	91%	78 – 116	12/28/2024 06:37	
Toluene-d8	2037-26-5	98.6%	76 – 127	12/30/2024 23:27	
Toluene-d8	2037-26-5	92.6%	76 – 127	12/28/2024 06:37	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	11	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	403	4,5	mg/L	5	5	SM2320B-2011	1	01/03/2025 12:29	KMV	I
Chloride	180		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 23:16	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 23:16	J1W	I
pH	8.37	6	pH_Units			S4500HB-11	1	01/01/2025 12:20	JXK	I
Specific Conductance	2650		umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	836		mg/L	10.0	7.0	SW846 9056A	10	12/20/2024 22:43	J1W	I
Total Dissolved Solids	1530		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	380		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	TB-46	Collected	12/18/2024 12:15
Lab Sample ID	3393066008	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/28/2024 00:39	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/28/2024 00:39	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/28/2024 00:39	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/28/2024 00:39	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/28/2024 00:39	PDK	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/28/2024 00:39	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/28/2024 00:39	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/28/2024 00:39	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/28/2024 00:39	PDK	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/28/2024 00:39	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/28/2024 00:39	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/28/2024 00:39	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/28/2024 00:39	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/28/2024 00:39	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/28/2024 00:39	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/28/2024 00:39	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/28/2024 00:39	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/28/2024 00:39	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/28/2024 00:39	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/28/2024 00:39	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/28/2024 00:39	PDK	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/28/2024 00:39	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/28/2024 00:39	PDK	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/28/2024 00:39	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/28/2024 00:39	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/28/2024 00:39	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/28/2024 00:39	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/28/2024 00:39	PDK	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/28/2024 00:39	PDK	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/28/2024 00:39	PDK	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/28/2024 00:39	PDK	A

Results

Client Sample ID	TB-46	Collected	12/18/2024 12:15
Lab Sample ID	3393066008	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/28/2024 00:39	PDK	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/28/2024 00:39	PDK	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/28/2024 00:39	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/28/2024 00:39	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/28/2024 00:39	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/28/2024 00:39	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/28/2024 00:39	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/28/2024 00:39	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	62 – 133	12/28/2024 00:39	
4-Bromofluorobenzene	460-00-4	99.1%	79 – 114	12/28/2024 00:39	
Dibromofluoromethane	1868-53-7	102%	78 – 116	12/28/2024 00:39	
Toluene-d8	2037-26-5	107%	76 – 127	12/28/2024 00:39	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3393066001	MW-34S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3393066002	MW-34S-DUP	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3393066003	MW-34D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3393066004	MW-10S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3393066005	MW-26S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3393066006	MW-26D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3393066007	MW-10D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3393066008	TB-46	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1358105	Prep Method	SW846 3015A
Date	12/20/2024 11:38	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Matrix Spike 3921367 (MS) 3392316004 (non-Project Sample) For QC Batch 1358105

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921368 (MSD) 3392316004 (non-Project Sample) For QC Batch 1358105

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.1	0	1.10	102	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.1	0	1.10	101	75 - 125	RPD 0.87 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.12	0	0.22	52.8*	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.11	0	0.22	49.6*	75 - 125	RPD 6.15 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0.000560	0.11	105	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.12	0.000560	0.11	106	75 - 125	RPD 1.41 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0130	1.10	103	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.1	0.0130	1.10	102	75 - 125	RPD 0.78 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.23	0	0.22	104	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.23	0	0.22	103	75 - 125	RPD 0.72 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000560	0.11	99.8	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000560	0.11	99.2	75 - 125	RPD 0.60 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	452	455	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	453	455	1.10	NC	75 - 125	RPD 0.21 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.12	0.0026	0.11	103	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0026	0.11	102	75 - 125	RPD 0.86 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	101	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	101	75 - 125	RPD 0.05 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.2	0.0230	1.10	104	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0230	1.10	104	75 - 125	RPD 0.87 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	1.2	0.0640	1.10	101	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	1.2	0.0640	1.10	101	75 - 125	RPD 0.78 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.1	0	0.11	93.5	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.1	0	0.11	93.3	75 - 125	RPD 0.21 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	55.5	54.90	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	55.6	54.90	1.10	NC	75 - 125	RPD 0.22 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.16	0.0440	0.11	106	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.16	0.0440	0.11	108	75 - 125	RPD 0.95 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0.0056	1.10	99.3	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0.0056	1.10	99	75 - 125	RPD 0.30 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	26.4	3.20	22.20	105	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	26.4	3.20	22.20	105	75 - 125	RPD 0.12 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.4	0.27	1.10	105	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.4	0.27	1.10	105	75 - 125	RPD 0.14 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	108	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	107	75 - 125	RPD 0.56 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	121	99	22.20	NC	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	121	99	22.20	NC	75 - 125	RPD 0.32 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.1	0	0.11	92.6	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.1	0	0.11	93.8	75 - 125	RPD 1.29 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.056	0	0.0560	101	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.056	0	0.0560	100	75 - 125	RPD 0.79 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.65	0.12	0.56	95.2	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.64	0.12	0.56	94.9	75 - 125	RPD 0.26 (Max-20)	

Method Blank 3921365 (MB) Created on 12/20/2024 07:53 For QC Batch 1358105

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3921366 (LCS) Created on 12/20/2024 07:53 For QC Batch 1358105

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.2		1.10	104	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.18		0.22	81	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.12		0.11	106	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	108	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.24		0.22	108	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	108	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.2		1.10	104	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	108	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	108	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	103	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	106	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	108	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	107	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	113	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	107	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	23		22.20	104	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	107	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.6		22.20	106	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	97.7	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.06		0.0560	107	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.58		0.56	105	80 - 120		

QC Batch

QC Batch	1358109	Prep Method	SW846 3015A
Date	12/20/2024 10:30	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006		

Matrix Spike 3921373 (MS) 3392603001 (non-Project Sample) For QC Batch 1358109

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921374 (MSD) 3392603001 (non-Project Sample) For QC Batch 1358109

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Calcium, Total	7440-70-2	MS	89.7	88.80	1.10	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	89.5	88.80	1.10	NC	75 - 125	RPD 0.21 (Max-20)	
Iron, Total	7439-89-6	MS	1.1	0.01	1.10	102	75 - 125		
Iron, Total	7439-89-6	MSD	1.1	0.01	1.10	102	75 - 125	RPD 0.05 (Max-20)	
Magnesium, Total	7439-95-4	MS	43.5	42.50	1.10	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	43.6	42.50	1.10	NC	75 - 125	RPD 0.13 (Max-20)	
Manganese, Total	7439-96-5	MS	0.12	0	0.11	104	75 - 125		
Manganese, Total	7439-96-5	MSD	0.11	0	0.11	102	75 - 125	RPD 1.75 (Max-20)	
Potassium, Total	7440-09-7	MS	26.9	3.50	22.20	105	75 - 125		
Potassium, Total	7440-09-7	MSD	26.7	3.50	22.20	105	75 - 125	RPD 0.78 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sodium, Total	7440-23-5	MS	48.5	25.40	22.20	104	75 - 125		
Sodium, Total	7440-23-5	MSD	48.2	25.40	22.20	103	75 - 125	RPD 0.56 (Max-20)	

Method Blank 3921371 (MB) Created on 12/20/2024 07:55 For QC Batch 1358109

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3921372 (LCS) Created on 12/20/2024 07:55 For QC Batch 1358109

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	105	80 - 120		
Antimony, Total	7440-36-0	LCS	0.23		0.22	105	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.11		0.11	101	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	108	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	108	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	106	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	103	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	107	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	105	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Copper, Total	7440-50-8	LCS	1.1		1.10	103	80 - 120		
Iron, Total	7439-89-6	LCS	1.2		1.10	105	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	108	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	108	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	107	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	106	80 - 120		
Potassium, Total	7440-09-7	LCS	22.8		22.20	103	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	107	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	107	80 - 120		
Sodium, Total	7440-23-5	LCS	23.4		22.20	105	80 - 120		
Thallium, Total	7440-28-0	LCS	0.1		0.11	93.4	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.06		0.0560	108	80 - 120		
Zinc, Total	7440-66-6	LCS	0.58		0.56	105	80 - 120		

QC Batch

QC Batch	1359512	Prep Method	SW846 7470A
Date	12/23/2024 07:29	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Matrix Spike 3922056 (MS) 3392940002 (non-Project Sample) For QC Batch 1359512

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3922057 (MSD) 3392940002 (non-Project Sample) For QC Batch 1359512

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0054	0.000002	0.0050	107	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0047	0.000002	0.0050	94.6	70 - 130	RPD 12.70 (Max-20)	

Method Blank 3922054 (MB) Created on 12/23/2024 06:35 For QC Batch 1359512

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3922055 (LCS) Created on 12/23/2024 06:35 For QC Batch 1359512

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0021		0.0020	104	85 - 115		

QC Batch

QC Batch	1359513	Prep Method	SW846 7470A
Date	12/23/2024 07:29	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Method Blank 3922058 (MB) Created on 12/23/2024 06:37 For QC Batch 1359513

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3922059 (LCS) Created on 12/23/2024 06:37 For QC Batch 1359513

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.002		0.0020	101	85 - 115		

Matrix Spike 3922060 (MS) 3393066005 For QC Batch 1359513

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3922061 (MSD) 3393066005 For QC Batch 1359513

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0051	0	0.0050	103	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0053	0	0.0050	106	70 - 130	RPD 3.07 (Max-20)	

QC Batch

QC Batch	1360498	Prep Method	SW846 3015A
Date	12/24/2024 10:56	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3393066007

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3922794 (MS) 3392545003 (non-Project Sample) For QC Batch 1360498

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3922795 (MSD) 3392545003 (non-Project Sample) For QC Batch 1360498

Method Blank 3922792 (MB) Created on 12/24/2024 06:44 For QC Batch 1360498

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3922793 (LCS) Created on 12/24/2024 06:44 For QC Batch 1360498

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.1		1.10	101	80 - 120		
Antimony, Total	7440-36-0	LCS	0.18		0.22	81.5	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	104	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	106	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.23		0.22	106	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	105	80 - 120		
Calcium, Total	7440-70-2	LCS	1		1.10	94	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	105	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	108	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	102	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Iron, Total	7439-89-6	LCS	1.2		1.10	106	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	105	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	105	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	111	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	106	80 - 120		
Potassium, Total	7440-09-7	LCS	22.9		22.20	103	80 - 120		
Selenium, Total	7782-49-2	LCS	1.1		1.10	101	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	106	80 - 120		
Sodium, Total	7440-23-5	LCS	23.6		22.20	106	80 - 120		
Thallium, Total	7440-28-0	LCS	0.12		0.11	104	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.054		0.0560	97.6	80 - 120		
Zinc, Total	7440-66-6	LCS	0.58		0.56	104	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1359701	Prep Method	SW846 3510C
Date	12/23/2024 23:25	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Matrix Spike 3922508 (MS) 3391292001 (non-Project Sample) For QC Batch 1359701

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3922509 (MSD) 3391292001 (non-Project Sample) For QC Batch 1359701

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2,4,5-Trichlorophenol	95-95-4	MS	373	0	500	74.6	44 - 148		
2,4,5-Trichlorophenol	95-95-4	MSD	501	0	500	100	44 - 148	RPD 29.30* (Max-23)	
2,4,6-Trichlorophenol	88-06-2	MS	342	0	500	68.3	41 - 148		
2,4,6-Trichlorophenol	88-06-2	MSD	468	0	500	93.6	41 - 148	RPD 31.20* (Max-23)	
2,4-Dinitrotoluene	121-14-2	MS	197	0	250	78.9	49 - 138		
2,4-Dinitrotoluene	121-14-2	MSD	256	0	250	103	49 - 138	RPD 26.10* (Max-22)	
Hexachlorobenzene	118-74-1	MS	155	0	250	61.8	59 - 109		
Hexachlorobenzene	118-74-1	MSD	217	0	250	86.8	59 - 109	RPD 33.60* (Max-21)	
Hexachlorobutadiene	87-68-3	MS	79.6	0	250	31.8	5 - 126		
Hexachlorobutadiene	87-68-3	MSD	116	0	250	46.3	5 - 126	RPD 37* (Max-30)	
Hexachloroethane	67-72-1	MS	57.6	0	250	23.1	5 - 111		
Hexachloroethane	67-72-1	MSD	86.4	0	250	34.6	5 - 111	RPD 40* (Max-30)	
mp-Cresol	108394/106445	MS	256	0	500	51.2	28 - 128		
mp-Cresol	108394/106445	MSD	362	0	500	72.4	28 - 128	RPD 34.30* (Max-20)	
Naphthalene	91-20-3	MS	110	4.50	250	42.1	21 - 123		
Naphthalene	91-20-3	MSD	157	4.50	250	60.8	21 - 123	RPD 35.10* (Max-30)	
Nitrobenzene	98-95-3	MS	108	0	250	43.2	41 - 128		
Nitrobenzene	98-95-3	MSD	155	0	250	62	41 - 128	RPD 35.70* (Max-19)	
o-Cresol	95-48-7	MS	242	0	500	48.4	34 - 136		
o-Cresol	95-48-7	MSD	351	0	500	70.2	34 - 136	RPD 36.70* (Max-23)	
Pentachlorophenol	87-86-5	MS	325	0	500	65	41 - 149		
Pentachlorophenol	87-86-5	MSD	450	0	500	90.1	41 - 149	RPD 32.40* (Max-28)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	367	500	73.4	23 - 131	
2,4,6-Tribromophenol	118-79-6	MSD	515	500	103	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	150	250	59.8	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	205	250	82.2	24 - 116	
2-Fluorophenol	367-12-4	MS	181	500	36.1	10 - 85	
2-Fluorophenol	367-12-4	MSD	275	500	55.1	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	137	250	54.8	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	201	250	80.2	32 - 125	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Phenol-d5	4165-62-2	MS	131	500	26.2	7 - 56	
Phenol-d5	4165-62-2	MSD	188	500	37.6	7 - 56	
Terphenyl-d14	98904-43-9	MS	171	250	68.5	41 - 145	
Terphenyl-d14	98904-43-9	MSD	243	250	97.3	41 - 145	

Method Blank 3922506 (MB) Created on 12/23/2024 13:04 For QC Batch 1359701

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	83.7	100	83.7	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	39.4	50	78.8	24 - 116	
2-Fluorophenol	367-12-4	BLK	55.5	100	55.5	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	38.6	50	77.2	32 - 125	
Phenol-d5	4165-62-2	BLK	39	100	39	7 - 56	
Terphenyl-d14	98904-43-9	BLK	46.7	50	93.4	41 - 145	

Lab Control Standard 3922507 (LCS) Created on 12/23/2024 13:04 For QC Batch 1359701

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	37		50	74	18 - 124		
1,4-Dioxane	123-91-1	LCS	23.3		50	46.6	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	111		100	111	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	104		100	104	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	99.1		100	99.1	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	92.4		100	92.4	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	89.5		100	89.5	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	71.4		100	71.4	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	54		50	108	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	51		50	102	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	39.8		50	79.6	27 - 125		
2-Chlorophenol	95-57-8	LCS	79.2		100	79.2	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	83.4		100	83.4	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	38.5		50	77	22 - 124		
2-Nitroaniline	88-74-4	LCS	48.6		50	97.2	55 - 138		
2-Nitrophenol	88-75-5	LCS	87.1		100	87.1	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	60.3		100	60.3	38 - 115		
3-Nitroaniline	99-09-2	LCS	44		50	88	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	50.2		50	100	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	90.4		100	90.4	46 - 144		
4-Chloroaniline	106-47-8	LCS	32.2		50	64.4	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	52.4		50	105	38 - 128		
4-Nitroaniline	100-01-6	LCS	49.2		50	98.3	53 - 124		
4-Nitrophenol	100-02-7	LCS	50.2		100	50.2	5 - 108		
Acenaphthene	83-32-9	LCS	41.7		50	83.5	36 - 130		
Acenaphthylene	208-96-8	LCS	37.9		50	75.7	39 - 130		
Acetophenone	98-86-2	LCS	38.1		50	76.2	49 - 117		
Anthracene	120-12-7	LCS	48.2		50	96.4	48 - 133		
Atrazine	1912-24-9	LCS	54.7		50	109	44 - 149		
Benzaldehyde	100-52-7	LCS	40.4		50	80.8	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	47.7		50	95.5	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	48		50	96.1	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	52.4		50	105	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	44.9		50	89.9	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	50.4		50	101	52 - 130		
Biphenyl	92-52-4	LCS	38.3		50	76.6	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	46.2		50	92.5	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	40.2		50	80.5	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	35.5		50	71	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	45.6		50	91.2	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	49.9		50	99.8	50 - 137		
Caprolactam	105-60-2	LCS	19.3		50	38.7	5 - 118		
Carbazole	86-74-8	LCS	47		50	94	52 - 139		
Chrysene	218-01-9	LCS	49.4		50	98.7	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	46.3		50	92.5	56 - 130		
Dibenzofuran	132-64-9	LCS	44		50	88.1	39 - 133		
Diethylphthalate	84-66-2	LCS	54.4		50	109	45 - 132		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dimethylphthalate	131-11-3	LCS	50.6		50	101	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	48.6		50	97.1	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	47.2		50	94.4	35 - 141		
Fluoranthene	206-44-0	LCS	51.2		50	102	49 - 132		
Fluorene	86-73-7	LCS	48		50	95.9	42 - 131		
Hexachlorobenzene	118-74-1	LCS	46.8		50	93.7	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	26		50	51.9	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	16.4		50	32.9	5 - 97		
Hexachloroethane	67-72-1	LCS	18.6		50	37.1	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	42.8		50	85.5	55 - 126		
Isophorone	78-59-1	LCS	42.2		50	84.4	45 - 129		
mp-Cresol	108394/106445	LCS	75.5		100	75.5	28 - 128		
Naphthalene	91-20-3	LCS	32.4		50	64.8	21 - 123		
Nitrobenzene	98-95-3	LCS	32		50	64.1	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	42.7		50	85.4	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	55.5		50	111	58 - 125		
o-Cresol	95-48-7	LCS	73.7		100	73.7	34 - 136		
Pentachlorophenol	87-86-5	LCS	83.6		100	83.6	41 - 149		
Phenanthrene	85-01-8	LCS	46.1		50	92.2	46 - 131		
Phenol	108-95-2	LCS	44.5		100	44.5	5 - 111		
Pyrene	129-00-0	LCS	49		50	98.1	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	103	100	103	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	43.9	50	87.7	24 - 116	
2-Fluorophenol	367-12-4	LCS	61.1	100	61.1	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	41.6	50	83.2	32 - 125	
Phenol-d5	4165-62-2	LCS	42.5	100	42.5	7 - 56	
Terphenyl-d14	98904-43-9	LCS	55.1	50	110	41 - 145	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1361196	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	3393066008

Matrix Spike 3923786 (MS) 3392983004 (non-Project Sample) For QC Batch 1361196

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4-Trimethylbenzene	95-63-6	MS	21.5	0	20	107	76 - 125		
1,2-Dibromoethane	106-93-4	MS	23.5	0	20	118	80 - 124		
1,2-Dichloroethane	107-06-2	MS	20.4	0	20	102	70 - 133		
1,3,5-Trimethylbenzene	108-67-8	MS	21.8	0	20	109	76 - 125		
Benzene	71-43-2	MS	21.2	0	20	106	80 - 124		
Ethylbenzene	100-41-4	MS	22.1	0	20	111	80 - 124		
Isopropylbenzene	98-82-8	MS	24.3	0.25	20	120	73 - 129		
Methyl t-Butyl Ether	1634-04-4	MS	21.6	0	20	108	69 - 115		
mp-Xylene	108383/106423	MS	44.1	0	40	110	79 - 125		
o-Xylene	95-47-6	MS	21.9	0	20	109	79 - 124		
Toluene	108-88-3	MS	22	0	20	110	80 - 125		
Total Xylenes	1330-20-7	MS	66	0	60	110	79 - 125		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.7	30	106	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	28.4	30	94.5	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.4	30	101	78 - 116	
Toluene-d8	2037-26-5	MS	30.6	30	102	76 - 127	

Duplicate 3923787 (DUP) 3392983006 (non-Project Sample) For QC Batch 1361196

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,2,4-Trimethylbenzene	95-63-6	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromoethane	106-93-4	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloroethane	107-06-2	DUP	0	0	RPD	0	(Max-)	ND
1,3,5-Trimethylbenzene	108-67-8	DUP	0	0	RPD	0	(Max-)	ND
Benzene	71-43-2	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
Ethylbenzene	100-41-4	DUP	0	0	RPD	0	(Max-)	ND
Isopropylbenzene	98-82-8	DUP	20.5067	20.2181	RPD	1.42	(Max-)	
Methyl t-Butyl Ether	1634-04-4	DUP	0	0	RPD	0	(Max-)	ND
mp-Xylene	108383/106423	DUP	0	0	RPD	0	(Max-)	ND
o-Xylene	95-47-6	DUP	0	0	RPD	0	(Max-)	ND
Toluene	108-88-3	DUP	0	0	RPD	0	(Max-)	ND
Total Xylenes	1330-20-7	DUP	0	0	RPD	0	(Max-)	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	DUP	31.5	30	105	62 - 133	
4-Bromofluorobenzene	460-00-4	DUP	27.4	30	91.5	79 - 114	
Dibromofluoromethane	1868-53-7	DUP	30	30	100	78 - 116	
Toluene-d8	2037-26-5	DUP	29.8	30	99.5	76 - 127	

Method Blank 3923781 (MB) Created on 12/27/2024 23:11 For QC Batch 1361196

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.8	30	99.4	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29	30	96.7	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.3	30	94.4	78 - 116	
Toluene-d8	2037-26-5	BLK	30.2	30	101	76 - 127	

Lab Control Standard 3923782 (LCS) Created on 12/27/2024 23:11 For QC Batch 1361196

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	20.6		20	103	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.5		20	112	74 - 135		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,2-Trichloroethane	79-00-5	LCS	21.1		20	106	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.6		20	97.9	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	20.4		20	102	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	21.7		20	109	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22		20	110	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.6		20	118	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22		20	110	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.9		20	104	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	21.4		20	107	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.5		20	108	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.3		20	96.7	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20		20	100	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22		20	110	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	21.1		20	106	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.4		20	107	81 - 116		
2-Butanone	78-93-3	LCS	98.7		100	98.7	50 - 152		
2-Hexanone	591-78-6	LCS	99.3		100	99.3	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	99.5		100	99.5	71 - 146		
Acetone	67-64-1	LCS	105		100	105	40 - 151		
Benzene	71-43-2	LCS	19.5		20	97.5	80 - 124		
Bromochloromethane	74-97-5	LCS	21.2		20	106	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.6		20	108	79 - 126		
Bromoform	75-25-2	LCS	21.8		20	109	70 - 123		
Bromomethane	74-83-9	LCS	19.3		20	96.5	45 - 148		
Carbon Disulfide	75-15-0	LCS	21		20	105	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	18.2		20	91.1	62 - 132		
Chlorobenzene	108-90-7	LCS	20.1		20	101	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.2		20	95.9	77 - 122		
Chloroethane	75-00-3	LCS	22.3		20	112	51 - 142		
Chloroform	67-66-3	LCS	19.5		20	97.4	78 - 122		
Chloromethane	74-87-3	LCS	21.2		20	106	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.1		20	100	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.4		20	92.1	81 - 121		
Cyclohexane	110-82-7	LCS	20.6		20	103	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	20		20	99.8	17 - 166		
Ethylbenzene	100-41-4	LCS	20.4		20	102	80 - 124		
Freon 113	76-13-1	LCS	21.5		20	108	50 - 130		
Isopropylbenzene	98-82-8	LCS	24		20	120	73 - 129		
Methyl acetate	79-20-9	LCS	21.2		20	106	70 - 130		
Methyl cyclohexane	108-87-2	LCS	20.6		20	103	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.7		20	104	69 - 115		
Methylene Chloride	75-09-2	LCS	20.4		20	102	76 - 121		
mp-Xylene	108383/106423	LCS	41.1		40	103	79 - 125		
o-Xylene	95-47-6	LCS	20.6		20	103	79 - 124		
Styrene	100-42-5	LCS	19		20	95	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.6		20	98.2	72 - 124		
Toluene	108-88-3	LCS	20.3		20	101	80 - 125		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Xylenes	1330-20-7	LCS	61.7		60	103	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	19.9		20	99.3	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	18.8		20	94.1	78 - 126		
Trichloroethene	79-01-6	LCS	19.2		20	95.9	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	23.3		20	116	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.2		20	106	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.4	30	97.9	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	30.1	30	100	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.7	30	99.1	78 - 116	
Toluene-d8	2037-26-5	LCS	30	30	99.9	76 - 127	

QC Batch

QC Batch	1362194	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3393066005 3393066007

Matrix Spike 3924415 (MS) 3393683001 (non-Project Sample) For QC Batch 1362194

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3924416 (MSD) 3393683001 (non-Project Sample) For QC Batch 1362194

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1-Dichloroethene	75-35-4	MS	470	0	400	118	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	434	0	400	108	63 - 128	RPD 8.03 (Max-21)	
1,2-Dichloroethane	107-06-2	MS	421	0	400	105	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	380	0	400	95	70 - 133	RPD 10.40 (Max-19)	
1,4-Dichlorobenzene	106-46-7	MS	420	0	400	105	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	408	0	400	102	81 - 116	RPD 2.97 (Max-15)	
2-Butanone	78-93-3	MS	2020	0	2000	101	50 - 152		
2-Butanone	78-93-3	MSD	1870	0	2000	93.7	50 - 152	RPD 7.68 (Max-16)	
Benzene	71-43-2	MS	437	4.70	400	108	80 - 124		
Benzene	71-43-2	MSD	403	4.70	400	99.5	80 - 124	RPD 8.11 (Max-26)	
Carbon Tetrachloride	56-23-5	MS	416	0	400	104	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	390	0	400	97.5	62 - 132	RPD 6.35 (Max-17)	
Chlorobenzene	108-90-7	MS	443	0	400	111	85 - 117		
Chlorobenzene	108-90-7	MSD	399	0	400	99.8	85 - 117	RPD 10.50 (Max-15)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloroform	67-66-3	MS	424	0	400	106	78 - 122		
Chloroform	67-66-3	MSD	396	0	400	99.1	78 - 122	RPD 6.76 (Max-16)	
Tetrachloroethene	127-18-4	MS	433	0	400	108	72 - 124		
Tetrachloroethene	127-18-4	MSD	393	0	400	98.3	72 - 124	RPD 9.68 (Max-38)	
Trichloroethene	79-01-6	MS	423	0	400	106	77 - 124		
Trichloroethene	79-01-6	MSD	389	0	400	97.2	77 - 124	RPD 8.49 (Max-18)	
Vinyl Chloride	75-01-4	MS	482	0	400	121	27 - 138		
Vinyl Chloride	75-01-4	MSD	498	0	400	125	27 - 138	RPD 3.24 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	643	600	107	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	615	600	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	566	600	94.3	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	584	600	97.3	79 - 114	
Dibromofluoromethane	1868-53-7	MS	616	600	103	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	586	600	97.6	78 - 116	
Toluene-d8	2037-26-5	MS	622	600	104	76 - 127	
Toluene-d8	2037-26-5	MSD	582	600	96.9	76 - 127	

Method Blank 3924370 (MB) Created on 12/30/2024 19:48 For QC Batch 1362194

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	0.40J	ug/L	1.0	J
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.9	30	110	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.9	30	99.6	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	31.5	30	105	78 - 116	
Toluene-d8	2037-26-5	BLK	32.6	30	109	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Lab Control Standard 3924371 (LCS) Created on 12/30/2024 19:48 For QC Batch 1362194

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.4		20	107	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.8		20	109	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.7		20	109	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.9		20	99.5	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.2		20	106	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	20.5		20	103	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.9		20	109	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	21.9		20	109	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.7		20	103	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	21.6		20	108	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	22.8		20	114	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.3		20	102	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.5		20	97.3	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.1		20	101	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	20.9		20	105	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.1		20	100	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.3		20	101	81 - 116		
2-Butanone	78-93-3	LCS	99.2		100	99.2	50 - 152		
2-Hexanone	591-78-6	LCS	105		100	105	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	106		100	106	71 - 146		
Acetone	67-64-1	LCS	104		100	104	40 - 151		
Benzene	71-43-2	LCS	19.8		20	99.2	80 - 124		
Bromochloromethane	74-97-5	LCS	22		20	110	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.9		20	110	79 - 126		
Bromoform	75-25-2	LCS	21.4		20	107	70 - 123		
Bromomethane	74-83-9	LCS	17		20	84.9	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.2		20	106	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.3		20	96.5	62 - 132		
Chlorobenzene	108-90-7	LCS	20.6		20	103	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.7		20	98.5	77 - 122		
Chloroethane	75-00-3	LCS	23.8		20	119	51 - 142		
Chloroform	67-66-3	LCS	19.8		20	98.8	78 - 122		
Chloromethane	74-87-3	LCS	18		20	89.9	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.5		20	102	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.3		20	91.3	81 - 121		
Cyclohexane	110-82-7	LCS	21.1		20	105	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	18.8		20	93.9	17 - 166		
Ethylbenzene	100-41-4	LCS	21.1		20	106	80 - 124		
Freon 113	76-13-1	LCS	21.4		20	107	50 - 130		
Isopropylbenzene	98-82-8	LCS	23		20	115	73 - 129		
Methyl acetate	79-20-9	LCS	23.1		20	116	70 - 130		
Methyl cyclohexane	108-87-2	LCS	20.7		20	103	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	21.1		20	105	69 - 115		
Methylene Chloride	75-09-2	LCS	20.7		20	104	76 - 121		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
mp-Xylene	108383/106423	LCS	41.8		40	105	79 - 125		
o-Xylene	95-47-6	LCS	21		20	105	79 - 124		
Styrene	100-42-5	LCS	18.4		20	92	79 - 123		
Tetrachloroethene	127-18-4	LCS	24.1		20	121	72 - 124		
Toluene	108-88-3	LCS	20.9		20	105	80 - 125		
Total Xylenes	1330-20-7	LCS	62.8		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.1		20	100	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	18.5		20	92.3	78 - 126		
Trichloroethene	79-01-6	LCS	19.5		20	97.3	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	24		20	120	38 - 123		
Vinyl Chloride	75-01-4	LCS	21		20	105	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.4	30	98	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	27.4	30	91.3	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.6	30	98.7	78 - 116	
Toluene-d8	2037-26-5	LCS	29.7	30	98.9	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1357303	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Matrix Spike 3920628 (MS) 3392908001 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920629 (MSD) 3392908001 (non-Project Sample) For QC Batch 1357303

Matrix Spike 3920850 (MS) 3392903001 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	26.4	15.40	10	110	80 - 120		

Matrix Spike 3920853 (MS) 3392903002 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920854 (MSD) 3392903002 (non-Project Sample) For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	12	0.91	10	111	80 - 120		
Sulfate	SO4	MSD	12.1	0.91	10	111	80 - 120	RPD 0.58 (Max-20)	

Matrix Spike 3920857 (MS) 3392903010 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	20	8.30	10	117	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3920860 (MS) 3392903014 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920861 (MSD) 3392903014 (non-Project Sample) For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	28.1	16.30	10	118	80 - 120		
Sulfate	SO4	MSD	28	16.30	10	117	80 - 120	RPD 0.32 (Max-20)	

Matrix Spike 3920994 (MS) 3392861001 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	2.5	1.30	1	116	80 - 120		

Method Blank 3920471 (MB) Created on 12/19/2024 06:33 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920472 (LCS) Created on 12/19/2024 06:33 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.5		50	101	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	101	90 - 110		
Sulfate	SO4	LCS	50.8		50	102	90 - 110		

Lab Control Standard 3920630 (LCS) Created on 12/19/2024 08:08 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	51.3		50	103	90 - 110		

Method Blank 3920631 (MB) Created on 12/19/2024 08:08 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920851 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.1		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	103	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Method Blank 3920852 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920855 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.3		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	103	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Method Blank 3920856 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920858 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.6		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.9		50	104	90 - 110		

Method Blank 3920859 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920862 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.4		50	105	90 - 110		

Method Blank 3920863 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3920995 (LCS) Created on 12/19/2024 12:09 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.8		50	106	90 - 110		

Method Blank 3920996 (MB) Created on 12/19/2024 12:09 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3921110 (MS) 3393066007 For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921111 (MSD) 3393066007 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	207	180	25	NC	80 - 120		
Chloride	Cl	MSD	207	180	25	NC	80 - 120	RPD 0.32 (Max-20)	
Nitrate-N	NO3	MS	2.9	0	2.50	115	80 - 120		
Nitrate-N	NO3	MSD	2.9	0	2.50	116	80 - 120	RPD 0.69 (Max-20)	

Lab Control Standard 3921112 (LCS) Created on 12/19/2024 13:35 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.3		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

Method Blank 3921113 (MB) Created on 12/19/2024 13:35 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1358097	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3393066004 3393066005 3393066006 3393066007

Matrix Spike 3921621 (MS) 3393123003 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921622 (MSD) 3393123003 (non-Project Sample) For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	68.4	57.80	10	NC	80 - 120		
Chloride	Cl	MSD	68.4	57.80	10	NC	80 - 120	RPD 0.11 (Max-20)	
Nitrate-N	NO3	MS	2.5	1.30	1	120	80 - 120		
Nitrate-N	NO3	MSD	2.5	1.30	1	117	80 - 120	RPD 1.23 (Max-20)	
Sulfate	SO4	MS	69.1	58.70	10	NC	80 - 120		
Sulfate	SO4	MSD	69.1	58.70	10	NC	80 - 120	RPD 0.10 (Max-20)	

Matrix Spike 3921625 (MS) 3393073008 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	16.3	6.30	10	101	80 - 120		

Matrix Spike 3921628 (MS) 3393147003 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921629 (MSD) 3393147003 (non-Project Sample) For QC Batch 1358097

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	16.3	5.30	10	110	80 - 120		
Chloride	Cl	MSD	16.5	5.30	10	111	80 - 120	RPD 0.87 (Max-20)	
Sulfate	SO4	MS	14.3	3.90	10	104	80 - 120		
Sulfate	SO4	MSD	14.5	3.90	10	106	80 - 120	RPD 1.11 (Max-20)	

Matrix Spike 3921632 (MS) 3393195004 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	528	513	25	NC	80 - 120		
Nitrate-N	NO3	MS	2.9	0	2.50	114	80 - 120		
Sulfate	SO4	MS	750	740	25	NC	80 - 120		

Matrix Spike 3921635 (MS) 3393221004 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921636 (MSD) 3393221004 (non-Project Sample) For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	65.1	54.10	10	NC	80 - 120		
Chloride	Cl	MSD	65.2	54.10	10	NC	80 - 120	RPD 0.18 (Max-20)	
Sulfate	SO4	MS	121	112	10	NC	80 - 120		
Sulfate	SO4	MSD	121	112	10	NC	80 - 120	RPD 0.10 (Max-20)	

Matrix Spike 3921639 (MS) 3393224001 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	29	26.10	2.50	NC	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3921805 (MS) 3393274002 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921806 (MSD) 3393274002 (non-Project Sample) For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	66.2	64.80	2.50	NC	80 - 120		
Nitrate-N	NO3	MSD	66.5	64.80	2.50	NC	80 - 120	RPD 0.53 (Max-20)	

Method Blank 3921333 (MB) Created on 12/20/2024 06:36 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921334 (LCS) Created on 12/20/2024 06:36 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	50.7		50	101	90 - 110		

Lab Control Standard 3921623 (LCS) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.2		50	100	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	101	90 - 110		
Sulfate	SO4	LCS	50.2		50	100	90 - 110		

Method Blank 3921624 (MB) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921626 (LCS) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.5		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Method Blank 3921627 (MB) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921630 (LCS) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.8		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3921631 (MB) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921633 (LCS) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.2		50	104	90 - 110		

Method Blank 3921634 (MB) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921637 (LCS) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.3		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	105	90 - 110		
Sulfate	SO4	LCS	52.3		50	105	90 - 110		

Method Blank 3921638 (MB) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921640 (LCS) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	53.5		50	107	90 - 110		
Nitrate-N	NO3	LCS	5.4		5	108	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3921641 (MB) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921807 (LCS) Created on 12/20/2024 13:25 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	54		50	108	90 - 110		
Nitrate-N	NO3	LCS	5.4		5	109	90 - 110		
Sulfate	SO4	LCS	54		50	108	90 - 110		

Method Blank 3921808 (MB) Created on 12/20/2024 13:25 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1358100	Prep Method	N/A
Date Tech.	N/A	Analysis Method	SM2130B-2011

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Method Blank 3921341 (MB) Created on 12/20/2024 07:09 For QC Batch 1358100

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3921343 (DUP) 3393066001 For QC Batch 1358100

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)				Qualifiers
Turbidity	Turb	DUP	380	380	RPD	0	(Max-10)	

Method Blank 3921344 (MB) Created on 12/20/2024 07:09 For QC Batch 1358100

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1359617	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Duplicate 3922642 (DUP) 3393023003 (non-Project Sample) For QC Batch 1359617

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Total Dissolved Solids	TDS	DUP	972	970	RPD	0.21	(Max-5)	

Duplicate 3922643 (DUP) 3393123001 (non-Project Sample) For QC Batch 1359617

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Total Dissolved Solids	TDS	DUP	246	248	RPD	0.81	(Max-5)	

Method Blank 3922295 (MB) Created on 12/23/2024 08:45 For QC Batch 1359617

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3922296 (LCS) Created on 12/23/2024 08:45 For QC Batch 1359617

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	484		500	96.8	90 - 110		

QC Batch

QC Batch	1361010	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Duplicate 3923436 (DUP) 3392940001 (non-Project Sample) For QC Batch 1361010

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	15	13	RPD 14.30 (Max-20)	

Duplicate 3923439 (DUP) 3393073001 (non-Project Sample) For QC Batch 1361010

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	14	12	RPD 15.40 (Max-20)	

Method Blank 3923435 (MB) Created on 12/27/2024 08:24 For QC Batch 1361010

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3923438 (MB) Created on 12/27/2024 08:24 For QC Batch 1361010

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3923441 (MB) Created on 12/27/2024 08:24 For QC Batch 1361010

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1362186	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Duplicate 3924350 (DUP) 3392812002 (non-Project Sample) For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)		Qualifiers
Specific Conductance	Cond	DUP	2870	3210	RPD 11.20* (Max-10)	

Duplicate 3924354 (DUP) 3394009002 (non-Project Sample) For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)		Qualifiers
Specific Conductance	Cond	DUP	998	1001	RPD 0.30 (Max-10)	

Duplicate 3924356 (DUP) 3393197002 (non-Project Sample) For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	537	535	RPD	0.37 (Max-10)	

Duplicate 3924352 (DUP) 3393066001 For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	2042	2034	RPD	0.39 (Max-10)	

QC Batch

QC Batch	1362771	Prep Method	N/A
Date	N/A	Analysis Method	S4500HB-11
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Duplicate 3924842 (DUP) 3392711003 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3924843 (DUP) 3392622001 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3924844 (DUP) 3393123004 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP					

Duplicate 3924848 (DUP) 3392933001 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP					

Duplicate 3924856 (DUP) 3392847002 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP					

Duplicate 3924860 (DUP) 3392903010 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	7.9090	7.9060	RPD 0.04	(Max-10)	

Duplicate 3924864 (DUP) 3393221001 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.4510	8.4710	RPD 0.24	(Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3924868 (DUP) 3393073002 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)		Qualifiers
pH	PH	DUP	5.8710	6.4980	RPD 10.10* (Max-10)	

Duplicate 3924872 (DUP) 3393123003 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3924876 (DUP) 3393197003 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)		Qualifiers
pH	PH	DUP	8.4950	8.4780	RPD 0.20 (Max-10)	

Duplicate 3924880 (DUP) 3393271015 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)		Qualifiers
pH	PH	DUP	8.1220	8.1480	RPD 0.32 (Max-10)	

Duplicate 3924884 (DUP) 3393296003 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3924888 (DUP) 3393306003 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3924852 (DUP) 3393066005 For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2070	8.2940	RPD	1.05 (Max-10)	

QC Batch

QC Batch	1363960	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Duplicate 3925473 (DUP) 3392847002 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	16.36	13.64	RPD	18.10 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3925474 (DUP) 3392903010 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	38.32	37.84	RPD 1.26	(Max-20)	

Duplicate 3925482 (DUP) 3393073002 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	4.68	2.08	RPD 76.90*	(Max-20)	ND

Duplicate 3925483 (DUP) 3393221001 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	711.60	715.60	RPD 0.56	(Max-20)	

Duplicate 3925487 (DUP) 3393789001 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	172.76	176.52	RPD 2.15	(Max-20)	

Duplicate 3925491 (DUP) 3393880001 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	265.64	267	RPD 0.51	(Max-20)	

Duplicate 3925495 (DUP) 3394072012 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	372.56	369.52	RPD 0.82	(Max-20)	

Duplicate 3925499 (DUP) 3394112001 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3925503 (DUP) 3394251018 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3925507 (DUP) 3394443001 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3925511 (DUP) 3394480003 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	197.60	199.28	RPD	0.85 (Max-20)	

Duplicate 3925515 (DUP) 3394481001 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Method Blank 3925470 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925476 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3925478 (DUP) 3393066005 For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	500	486	RPD	2.84 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3925480 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925485 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925489 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925493 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925497 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925501 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925505 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	5	mg/L	5	

Method Blank 3925509 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925513 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925517 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	5	mg/L	5	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3393066001	MW-34S	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1357303
3393066002	MW-34S-DUP	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1357303
3393066003	MW-34D	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1357303

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3393066004	MW-10S	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1357303
		N/A	N/A	N/A		SW846 9056A	1358097
3393066005	MW-26S	SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		SW846 8260D	1362194
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1357303
		N/A	N/A	N/A		SW846 9056A	1358097
3393066006	MW-26D	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1358097
		N/A	N/A	N/A		SW846 9056A	1357303

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3393066007	MW-10D	SW846 3015A	1360498	12/24/2024 10:56	ANN	SW846 6010C	1364486
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1362194
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1358097
		N/A	N/A	N/A		SW846 9056A	1357303
3393066008	TB-46	N/A	N/A	N/A		SW846 8260D	1361196

ALS

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3393066
Logged By: MJE
PM: EXP
ALS Quote #:
1 of 1

Client Name: Michael Baker Intl.
Address: 100 Airside Drive Moon Twp., PA

Contact: C. Kupfer
Phone#: 412-269-6300
Project Name/#: Erie Coke Works
Bill To:
Purchase Order #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

Temp Taken By: MJE Therm ID: 569 WO Temp (°C) 1°

Receipt Info completed by:

Container Type	G	G	P	P									
Container Size	3 40 ml	1 500 ml	4 125 ml	2 1L									
Preservative	HCl ~~UNP~~		HNO_3	~~UNP~~	MJE 12/19/24								

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.						
	Enter Number of Containers Per Sample or Field Results Below.																
1	MW-34S	12/18/24	0910		G	GW	3	1	2	2	2	MJE 12/19/24					
2	MW-34S-DUP		0920														
3	MW-34D		1120														
4	MW-10S		1250														
5	MW-26S		0925														
6	MW-26D		1050														
7	MW-10D	↓	1215		↓	↓											
8	TB-46	—	—		—												
9																	
10																	

Sample(s) for Radiation testing?	Y	N
Reportable SDWA Sample(s)?	Y	N
SDWA State of Origin?		
PWSID #		
PWS Contact:		
PWS Phone #:		
Rad Screen (uCi)		
New Source?	Y	N
New Source Contact:		

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Cooler Custody Seals Intact	Y	N	NA	
Sample Custody Seal Intact	Y	N	NA	
Received on Ice	Y	N	NA	
Coolers & Samples Intact	Y	N		
Correct Containers Provided	Y	N		
Sample Label/COC Agree	Y	N		
Adequate Sample Volumes	Y	N		
VOA only: Trip Blank	Y	N	NA	
NJ ≤ 4 days?	Y	N		

Courier/Tracking #

WV Containers 0-6°C Y N NA

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample/COC Remarks

* All GW Samples are Considered "Hot"

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: ID:

Comments

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/18/24	1700	1	Dave Gaviglia / MBI	2	Fedex
12/19/24	926	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type:

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

7834859829 89

Middletown Sample Condition Form

Client Michael Baker Intl. Workorder 33930666

Temp °C 1° Therm ID 569 Ice? (Y) N N/A Initials & Date MJE 12/19/24

(Fedex) UPS Client ALS Other Tracking # 283485982989

	Yes	No	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
Sample collector name present		X		PM notified
COC/bottle labels complete & in agreement	X			
•Sample location	X			
•Date and time of sample collection	X			
•Type(s) of preservation		X		Plwp updated on chain
•Number of containers		X		Updated on chain
•Composite or grab	X			
•Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days			X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

Rad Screen (uCi) —

Review Comments:

1/10/2025 11:17 AM

Investigation Derived Waste (IDW)

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3391171
Report ID 372621 on 12/10/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 22, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3389099003	IDW-S	Solid	11/21/2024 16:45	11/22/2024 09:07	CBC	Collected By Client
3389099004	IDW-W	Water	11/21/2024 17:00	11/22/2024 09:07	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID		
3389099003	IDW-S	**S1**	The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by matrix.

Result Notations

Notation Ref.	
E	Result reported exceeds instrument calibration
1	The surrogate Phenol-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 35 to 111. This result was reported at a dilution of 100.
2	The surrogate Nitrobenzene-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 38 to 112. This result was reported at a dilution of 100.
3	The surrogate 2-Fluorobiphenyl for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 40 to 110. This result was reported at a dilution of 100.
4	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Di-n-Octylphthalate. The % Recovery was reported as 79 and the control limits were 80 to 120.
5	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Butylbenzylphthalate. The % Recovery was reported as 78 and the control limits were 80 to 120.
6	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Hexachlorocyclopentadiene. The % Recovery was reported as 77 and the control limits were 80 to 120.
7	The sample was analyzed at 21.0 C
8	The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
9	According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)
10	ALS-Middletown does not hold PADEP NELAP accreditation for this analyte by this method of analysis.
11	The CCV recovery yielded -25.61%D (limits +/-20%D) for method SW846 8260D for the analyte Bromomethane.
12	The surrogate Decachlorobiphenyl for method SW846 8082A was outside of control limits in the associated matrix spike duplicate sample (MSD). The % Recovery was reported as 24.5 and the control limits were 30 to 140. This result was reported at a dilution of 1.
13	The surrogate Decachlorobiphenyl for method SW846 8082A was outside of control limits. The % Recovery was reported as 26.9 and the control limits were 30 to 140. This result was reported at a dilution of 1.
14	Sample did not flash up to 200 f.

Detected Results Summary

Client Sample ID IDW-S
Lab Sample ID 3389099003

Collected 11/21/2024 16:45
Lab Receipt 11/22/2024 09:07

Compound	Result	Units	RDL	MDL	Method	Flag
SEMIVOLATILES						
2,4-Dimethylphenol	2870	ug/kg	989	168	SW846 8270E	#
2,6-Dinitrotoluene	5000	ug/kg	494	168	SW846 8270E	#
2-Methylnaphthalene	96500	ug/kg	12400	2100	SW846 8270E	#
Acenaphthene	41800	ug/kg	6180	2100	SW846 8270E	#
Acenaphthylene	82500	ug/kg	6180	2100	SW846 8270E	#
Acetophenone	1090	ug/kg	494	84.0	SW846 8270E	#
Anthracene	129000	ug/kg	6180	2100	SW846 8270E	#
Benzo(a)anthracene	103000	ug/kg	6180	2100	SW846 8270E	#
Benzo(a)pyrene	86900	ug/kg	6180	2100	SW846 8270E	#
Benzo(b)fluoranthene	71700	ug/kg	6180	2100	SW846 8270E	#
Benzo(g,h,i)perylene	41300	ug/kg	6180	2100	SW846 8270E	#
Benzo(k)fluoranthene	73300	ug/kg	6180	2100	SW846 8270E	#
Biphenyl	19000	ug/kg	494	84.0	SW846 8270E	#
Carbazole	42700	ug/kg	12400	2100	SW846 8270E	#
Chrysene	103000	ug/kg	6180	2100	SW846 8270E	#
Dibenzo(a,h)anthracene	12600	ug/kg	247	84.0	SW846 8270E	#
Dibenzofuran	87300	ug/kg	12400	2100	SW846 8270E	#
Fluoranthene	317000	ug/kg	6180	2100	SW846 8270E	#
Fluorene	141000	ug/kg	6180	2100	SW846 8270E	#
Hexachlorobutadiene	102J	ug/kg	494	84.0	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	48900	ug/kg	6180	2100	SW846 8270E	#
mp-Cresol	4610	ug/kg	989	168	SW846 8270E	#
Naphthalene	1190000	ug/kg	6180	2100	SW846 8270E	#
o-Cresol	1920	ug/kg	989	168	SW846 8270E	#
Phenanthrene	408000	ug/kg	6180	2100	SW846 8270E	#
Phenol	3040	ug/kg	989	168	SW846 8270E	#
Pyrene	199000	ug/kg	6180	2100	SW846 8270E	#
TCLP EPA 1311 METALS						
Barium, Total	0.54	mg/L	0.050	0.015	SW846 6010C	#
TCLP EPA 1311 SEMI-VOLATILES						
mp-Cresol	196	ug/L	15.0	2.5	SW846 8270E	#
o-Cresol	90.5	ug/L	15.0	2.5	SW846 8270E	#
Pyridine	27.5	ug/L	15.0	2.0	SW846 8270E	#
TCLP EPA 1311 VOLATILE ORGANIC						
Benzene	197	ug/L	100	23.0	SW846 8260D	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	9640	ug/kg	389	97.2	SW846 8260D	#
1,3,5-Trimethylbenzene	7000	ug/kg	389	77.8	SW846 8260D	#
Benzene	56900	ug/kg	389	89.4	SW846 8260D	#
Cyclohexane	223J	ug/kg	389	113	SW846 8260D	#
Ethylbenzene	3100	ug/kg	389	132	SW846 8260D	#
Methyl cyclohexane	1050	ug/kg	389	117	SW846 8260D	#
mp-Xylene	28300	ug/kg	778	202	SW846 8260D	#
o-Xylene	11500	ug/kg	389	128	SW846 8260D	#

Detected Results Summary

Sample - IDW-S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Styrene	856	ug/kg	389	93.3	SW846 8260D	#
Toluene	23700	ug/kg	389	89.4	SW846 8260D	#
Total Xylenes	39800	ug/kg	1170	257	SW846 8260D	#
WET CHEMISTRY						
Corrosivity as pH	8.95	pH_Units			SW846 9045D	#
Moisture	25.1	%	0.1	0.01	S2540G-15	#
Solids, Total Volatile	21.5	%	1.0	0.1	S2540G-15	#
Specific Gravity	1.67				S2710F-09	#
Sulfide, Reactive	4.0J	mg/kg	6.2	1.4	SW846 7.3	#
Total Solids	74.9	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	IDW-W	Collected	11/21/2024 17:00
Lab Sample ID	3389099004	Lab Receipt	11/22/2024 09:07

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	2.8	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Total	0.010	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Total	0.20	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Total	148	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.014	mg/L	0.0056	0.0020	SW846 6010C	#
Cobalt, Total	0.0070	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.021	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Total	11.2	mg/L	0.067	0.022	SW846 6010C	#
Lead, Total	0.028	mg/L	0.0067	0.0022	SW846 6010C	#
Magnesium, Total	119	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Total	1.8	mg/L	0.0056	0.0020	SW846 6010C	#
Nickel, Total	0.018J	mg/L	0.022	0.0073	SW846 6010C	#
Potassium, Total	57.6	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.0094J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Total	109	mg/L	0.56	0.18	SW846 6010C	#
Vanadium, Total	0.0040J	mg/L	0.0056	0.0020	SW846 6010C	#
Zinc, Total	0.019J	mg/L	0.022	0.0073	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	60.1	ug/L	7.5	1.3	SW846 8270E	#
2-Methylnaphthalene	172	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthene	55.3	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	149	ug/L	3.8	0.63	SW846 8270E	#
Acetophenone	10.0	ug/L	7.5	2.3	SW846 8270E	#
Anthracene	33.0	ug/L	3.8	0.63	SW846 8270E	#
Benzo(a)anthracene	16.1	ug/L	3.8	0.70	SW846 8270E	#
Benzo(a)pyrene	13.9	ug/L	3.8	0.65	SW846 8270E	#
Benzo(b)fluoranthene	11.6	ug/L	3.8	0.75	SW846 8270E	#
Benzo(g,h,i)perylene	8.5	ug/L	3.8	0.90	SW846 8270E	#
Benzo(k)fluoranthene	11.6	ug/L	3.8	0.85	SW846 8270E	#
Biphenyl	26.6	ug/L	7.5	0.63	SW846 8270E	#
Carbazole	104	ug/L	7.5	0.63	SW846 8270E	#
Chrysene	16.6	ug/L	3.8	0.65	SW846 8270E	#
Dibenzo(a,h)anthracene	2.2J	ug/L	3.8	0.80	SW846 8270E	#
Dibenzofuran	73.5	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	69.7	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	97.9	ug/L	3.8	0.63	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	9.4	ug/L	3.8	0.78	SW846 8270E	#
mp-Cresol	53.4	ug/L	7.5	1.3	SW846 8270E	#
Naphthalene	4370	ug/L	37.5	16.3	SW846 8270E	#
o-Cresol	30.5	ug/L	7.5	1.3	SW846 8270E	#
Phenanthrene	161	ug/L	3.8	0.63	SW846 8270E	#
Phenol	30.0	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	49.3	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	48.4	ug/L	20.0	5.0	SW846 8260D	#
1,3,5-Trimethylbenzene	23.8	ug/L	20.0	4.0	SW846 8260D	#

Detected Results Summary

Sample - IDW-W (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Benzene	6400	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	50.4	ug/L	20.0	6.8	SW846 8260D	#
mp-Xylene	125	ug/L	40.0	10.4	SW846 8260D	#
o-Xylene	57.5	ug/L	20.0	6.6	SW846 8260D	#
Styrene	15.8J	ug/L	20.0	4.8	SW846 8260D	#
Toluene	179	ug/L	20.0	4.6	SW846 8260D	#
Total Xylenes	183	ug/L	60.0	13.2	SW846 8260D	#
WET CHEMISTRY						
Corrosivity as pH	7.95	pH_Units			SW846 9040C	#
Free Liquids	Positive				SW846 9095B	#
Sulfide, Reactive	5.2J	mg/kg	6.3	1.4	SW846 7.3	#

Results

Client Sample ID	IDW-S	Collected	11/21/2024 16:45
Lab Sample ID	3389099003	Lab Receipt	11/22/2024 09:07

PCBs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aroclor-1016	ND	ND,S1	mg/kg	0.88	0.11	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1221	ND	ND,S1	mg/kg	0.88	0.45	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1232	ND	ND,S1	mg/kg	0.88	0.19	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1242	ND	ND,S1	mg/kg	0.88	0.19	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1248	ND	ND,S1	mg/kg	0.88	0.16	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1254	ND	ND,S1	mg/kg	0.88	0.11	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1260	ND	ND,S1	mg/kg	0.88	0.11	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1262	ND	ND,S1	mg/kg	0.88	0.13	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1268	ND	ND,S1	mg/kg	0.88	0.16	SW846 8082A	20	11/27/2024 04:01	DXL	F
Total Polychlorinated Biphenyl	ND	ND,S1	mg/kg	0.88	0.45	SW846 8082A	20	11/27/2024 04:01	DXL	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	68.6%	49 – 115	11/27/2024 04:01	
Tetrachloro-m-xylene	877-09-8	127%	27 – 137	11/27/2024 04:01	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
1,4-Dioxane	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,3,4,6-Tetrachlorophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,4,5-Trichlorophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,4,6-Trichlorophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,4-Dichlorophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,4-Dimethylphenol	2870	S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,4-Dinitrophenol	ND	ND,S1	ug/kg	1980	979	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,4-Dinitrotoluene	ND	ND,S1	ug/kg	494	98.9	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,6-Dinitrotoluene	5000	S1	ug/kg	494	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2-Chloronaphthalene	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
2-Chlorophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2-Methyl-4,6-dinitrophenol	ND	ND,S1	ug/kg	989	247	SW846 8270E	4	11/25/2024 19:40	CGS	E
2-Methylnaphthalene	96500	S1	ug/kg	12400	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
2-Nitroaniline	ND	ND,S1	ug/kg	989	114	SW846 8270E	4	11/25/2024 19:40	CGS	E
2-Nitrophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
3,3-Dichlorobenzidine	ND	ND,S1	ug/kg	989	153	SW846 8270E	4	11/25/2024 19:40	CGS	E
3-Nitroaniline	ND	ND,S1	ug/kg	989	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
4-Bromophenyl-phenylether	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
4-Chloro-3-methylphenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
4-Chloroaniline	ND	ND,S1	ug/kg	989	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
4-Chlorophenyl-phenylether	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
4-Nitroaniline	ND	ND,S1	ug/kg	989	143	SW846 8270E	4	11/25/2024 19:40	CGS	E
4-Nitrophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
Acenaphthene	41800	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Acenaphthylene	82500	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Acetophenone	1090	S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E

Results

Client Sample ID	IDW-S	Collected	11/21/2024 16:45
Lab Sample ID	3389099003	Lab Receipt	11/22/2024 09:07

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Anthracene	129000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Atrazine	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Benzaldehyde	ND	ND,S1	ug/kg	989	98.9	SW846 8270E	4	11/25/2024 19:40	CGS	E
Benzo(a)anthracene	103000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Benzo(a)pyrene	86900	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Benzo(b)fluoranthene	71700	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Benzo(g,h,i)perylene	41300	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Benzo(k)fluoranthene	73300	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Biphenyl	19000	S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
bis(2-Chloroethoxy)methane	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
bis(2-Chloroethyl)ether	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
bis(2-Chloroisopropyl)ether	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
bis(2-Ethylhexyl)phthalate	ND	ND,5,S1	ug/kg	494	109	SW846 8270E	4	11/25/2024 19:40	CGS	E
Butylbenzylphthalate	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Caprolactam	ND	ND,S1	ug/kg	989	193	SW846 8270E	4	11/25/2024 19:40	CGS	E
Carbazole	42700	S1	ug/kg	12400	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Chrysene	103000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Dibenzo(a,h)anthracene	12600	S1	ug/kg	247	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Dibenzofuran	87300	S1	ug/kg	12400	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Diethylphthalate	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Dimethylphthalate	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Di-n-Butylphthalate	ND	ND,S1	ug/kg	494	173	SW846 8270E	4	11/25/2024 19:40	CGS	E
Di-n-Octylphthalate	ND	ND,4,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Fluoranthene	317000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Fluorene	141000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Hexachlorobenzene	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Hexachlorobutadiene	102J	J,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Hexachlorocyclopentadiene	ND	ND,6,S1	ug/kg	989	148	SW846 8270E	4	11/25/2024 19:40	CGS	E
Hexachloroethane	ND	ND,S1	ug/kg	494	114	SW846 8270E	4	11/25/2024 19:40	CGS	E
Indeno(1,2,3-cd)pyrene	48900	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Isophorone	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
mp-Cresol	4610	S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
Naphthalene	1190000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Nitrobenzene	ND	ND,S1	ug/kg	494	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
N-Nitroso-di-n-propylamine	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
N-Nitrosodiphenylamine	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
o-Cresol	1920	S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
Pentachlorophenol	ND	ND,S1	ug/kg	989	242	SW846 8270E	4	11/25/2024 19:40	CGS	E
Phenanthrene	408000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Phenol	3040	S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
Pyrene	199000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E

Results

Client Sample ID	IDW-S	Collected	11/21/2024 16:45
Lab Sample ID	3389099003	Lab Receipt	11/22/2024 09:07

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	67.9%	19 – 132	11/25/2024 19:40	
2,4,6-Tribromophenol	118-79-6	78%	19 – 132	11/26/2024 19:15	
2-Fluorobiphenyl	321-60-8	63.1%	40 – 110	11/25/2024 19:40	
2-Fluorobiphenyl	321-60-8	0*%	40 – 110	11/26/2024 19:15	3
2-Fluorophenol	367-12-4	62.1%	26 – 116	11/25/2024 19:40	
2-Fluorophenol	367-12-4	62.5%	26 – 116	11/26/2024 19:15	
Nitrobenzene-d5	4165-60-0	65%	38 – 112	11/25/2024 19:40	
Nitrobenzene-d5	4165-60-0	0*%	38 – 112	11/26/2024 19:15	2
Phenol-d5	4165-62-2	70%	35 – 111	11/25/2024 19:40	
Phenol-d5	4165-62-2	0*%	35 – 111	11/26/2024 19:15	1
Terphenyl-d14	98904-43-9	76.5%	45 – 126	11/25/2024 19:40	
Terphenyl-d14	98904-43-9	106%	45 – 126	11/26/2024 19:15	

TCLP EPA 1311 METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Arsenic, Total	ND	ND,S1	mg/L	0.050	0.015	SW846 6010C	1	11/26/2024 10:26	MSY	E1
Barium, Total	0.54	S1	mg/L	0.050	0.015	SW846 6010C	1	11/26/2024 10:26	MSY	E1
Cadmium, Total	ND	ND,S1	mg/L	0.0099	0.0033	SW846 6010C	1	11/26/2024 10:26	MSY	E1
Chromium, Total	ND	ND,S1	mg/L	0.025	0.0090	SW846 6010C	1	11/26/2024 10:26	MSY	E1
Lead, Total	ND	ND,S1	mg/L	0.030	0.0099	SW846 6010C	1	11/26/2024 10:26	MSY	E1
Mercury, Total	ND	ND,S1	mg/L	0.00050	0.00017	SW846 7470A	1	12/02/2024 14:17	AXW	E2
Selenium, Total	ND	ND,S1	mg/L	0.099	0.033	SW846 6010C	1	11/26/2024 10:26	MSY	E1
Silver, Total	ND	ND,S1	mg/L	0.020	0.0063	SW846 6010C	1	11/26/2024 10:26	MSY	E1

TCLP EPA 1311 SEMI-VOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dichlorobenzene	ND	ND,S1	ug/L	15.0	1.5	SW846 8270E	1	11/27/2024 14:26	S7M	E
2,4,5-Trichlorophenol	ND	ND,S1	ug/L	15.0	2.5	SW846 8270E	1	11/27/2024 14:26	S7M	E
2,4,6-Trichlorophenol	ND	ND,S1	ug/L	15.0	2.5	SW846 8270E	1	11/27/2024 14:26	S7M	E
2,4-Dinitrotoluene	ND	ND,S1	ug/L	15.0	1.3	SW846 8270E	1	11/27/2024 14:26	S7M	E
Hexachlorobenzene	ND	ND,S1	ug/L	15.0	1.3	SW846 8270E	1	11/27/2024 14:26	S7M	E
Hexachlorobutadiene	ND	ND,S1	ug/L	15.0	1.4	SW846 8270E	1	11/27/2024 14:26	S7M	E
Hexachloroethane	ND	ND,S1	ug/L	15.0	1.3	SW846 8270E	1	11/27/2024 14:26	S7M	E
mp-Cresol	196	S1	ug/L	15.0	2.5	SW846 8270E	1	11/27/2024 14:26	S7M	E
Nitrobenzene	ND	ND,S1	ug/L	15.0	2.9	SW846 8270E	1	11/27/2024 14:26	S7M	E
o-Cresol	90.5	S1	ug/L	15.0	2.5	SW846 8270E	1	11/27/2024 14:26	S7M	E
Pentachlorophenol	ND	ND,S1	ug/L	40.0	7.0	SW846 8270E	1	11/27/2024 14:26	S7M	E
Pyridine	27.5	S1	ug/L	15.0	2.0	SW846 8270E	1	11/27/2024 14:26	S7M	E

Results

Client Sample ID	IDW-S	Collected	11/21/2024 16:45
Lab Sample ID	3389099003	Lab Receipt	11/22/2024 09:07

TCLP EPA 1311 SEMI-VOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	100%	23 – 131	11/27/2024 14:26	
2-Fluorobiphenyl	321-60-8	75.8%	24 – 116	11/27/2024 14:26	
2-Fluorophenol	367-12-4	48.6%	10 – 85	11/27/2024 14:26	
Nitrobenzene-d5	4165-60-0	76.1%	32 – 125	11/27/2024 14:26	
Phenol-d5	4165-62-2	35.4%	7 – 56	11/27/2024 14:26	
Terphenyl-d14	98904-43-9	52.2%	41 – 145	11/27/2024 14:26	

TCLP EPA 1311 VOLATILE ORGANIC

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1-Dichloroethene	ND	ND,S1	ug/L	100	29.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
1,2-Dichloroethane	ND	ND,S1	ug/L	100	32.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
2-Butanone	ND	ND,S1	ug/L	1000	180	SW846 8260D	100	11/30/2024 17:52	PDK	E
Benzene	197	S1	ug/L	100	23.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
Carbon Tetrachloride	ND	ND,S1	ug/L	100	31.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
Chlorobenzene	ND	ND,S1	ug/L	100	19.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
Chloroform	ND	ND,S1	ug/L	100	21.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
Tetrachloroethene	ND	ND,S1	ug/L	100	35.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
Trichloroethene	ND	ND,S1	ug/L	100	33.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
Vinyl Chloride	ND	ND,S1	ug/L	100	30.0	SW846 8260D	100	11/30/2024 17:52	PDK	E

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	95.7%	62 – 133	11/30/2024 17:52	
4-Bromofluorobenzene	460-00-4	95.5%	79 – 114	11/30/2024 17:52	
Dibromofluoromethane	1868-53-7	93.8%	78 – 116	11/30/2024 17:52	
Toluene-d8	2037-26-5	97.5%	76 – 127	11/30/2024 17:52	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,S1	ug/kg	389	85.6	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,1,2,2-Tetrachloroethane	ND	ND,S1	ug/kg	389	132	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,1,2-Trichloroethane	ND	ND,S1	ug/kg	389	128	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,1-Dichloroethane	ND	ND,S1	ug/kg	389	109	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,1-Dichloroethene	ND	ND,S1	ug/kg	389	113	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2,3-Trichlorobenzene	ND	ND,S1	ug/kg	778	362	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2,3-Trichloropropane	ND	ND,S1	ug/kg	778	233	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2,4-Trichlorobenzene	ND	ND,S1	ug/kg	778	319	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2,4-Trimethylbenzene	9640	S1	ug/kg	389	97.2	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2-Dibromo-3-chloropropane	ND	ND,S1	ug/kg	2720	583	SW846 8260D	250	12/04/2024 16:51	JTH	A

Results

Client Sample ID	IDW-S	Collected	11/21/2024 16:45
Lab Sample ID	3389099003	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2-Dibromoethane	ND	ND,S1	ug/kg	389	109	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2-Dichlorobenzene	ND	ND,S1	ug/kg	389	148	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2-Dichloroethane	ND	ND,S1	ug/kg	389	124	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2-Dichloroethene, Total	ND	ND,S1	ug/kg	778	175	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2-Dichloropropane	ND	ND,S1	ug/kg	389	93.3	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,3,5-Trimethylbenzene	7000	S1	ug/kg	389	77.8	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,3-Dichlorobenzene	ND	ND,S1	ug/kg	389	97.2	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,4-Dichlorobenzene	ND	ND,S1	ug/kg	389	105	SW846 8260D	250	12/04/2024 16:51	JTH	A
2-Butanone	ND	ND,S1	ug/kg	3890	700	SW846 8260D	250	12/04/2024 16:51	JTH	A
2-Hexanone	ND	ND,S1	ug/kg	1940	506	SW846 8260D	250	12/04/2024 16:51	JTH	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,S1	ug/kg	1940	583	SW846 8260D	250	12/04/2024 16:51	JTH	A
Acetone	ND	ND,S1	ug/kg	3890	1210	SW846 8260D	250	12/04/2024 16:51	JTH	A
Benzene	56900	S1	ug/kg	389	89.4	SW846 8260D	250	12/04/2024 16:51	JTH	A
Bromochloromethane	ND	ND,S1	ug/kg	389	124	SW846 8260D	250	12/04/2024 16:51	JTH	A
Bromodichloromethane	ND	ND,S1	ug/kg	389	105	SW846 8260D	250	12/04/2024 16:51	JTH	A
Bromoform	ND	ND,S1	ug/kg	389	156	SW846 8260D	250	12/04/2024 16:51	JTH	A
Bromomethane	ND	ND,S1	ug/kg	389	152	SW846 8260D	250	12/04/2024 16:51	JTH	A
Carbon Disulfide	ND	ND,S1	ug/kg	389	89.4	SW846 8260D	250	12/04/2024 16:51	JTH	A
Carbon Tetrachloride	ND	ND,S1	ug/kg	389	121	SW846 8260D	250	12/04/2024 16:51	JTH	A
Chlorobenzene	ND	ND,S1	ug/kg	389	73.9	SW846 8260D	250	12/04/2024 16:51	JTH	A
Chlorodibromomethane	ND	ND,S1	ug/kg	389	175	SW846 8260D	250	12/04/2024 16:51	JTH	A
Chloroethane	ND	ND,S1	ug/kg	389	128	SW846 8260D	250	12/04/2024 16:51	JTH	A
Chloroform	ND	ND,S1	ug/kg	389	81.7	SW846 8260D	250	12/04/2024 16:51	JTH	A
Chloromethane	ND	ND,S1	ug/kg	389	121	SW846 8260D	250	12/04/2024 16:51	JTH	A
cis-1,2-Dichloroethene	ND	ND,S1	ug/kg	389	124	SW846 8260D	250	12/04/2024 16:51	JTH	A
cis-1,3-Dichloropropene	ND	ND,S1	ug/kg	389	121	SW846 8260D	250	12/04/2024 16:51	JTH	A
Cyclohexane	223J	J,S1	ug/kg	389	113	SW846 8260D	250	12/04/2024 16:51	JTH	A
Dichlorodifluoromethane	ND	ND,S1	ug/kg	389	128	SW846 8260D	250	12/04/2024 16:51	JTH	A
Ethylbenzene	3100	S1	ug/kg	389	132	SW846 8260D	250	12/04/2024 16:51	JTH	A
Freon 113	ND	ND,S1	ug/kg	389	101	SW846 8260D	250	12/04/2024 16:51	JTH	A
Isopropylbenzene	ND	ND,S1	ug/kg	389	85.6	SW846 8260D	250	12/04/2024 16:51	JTH	A
Methyl acetate	ND	ND,S1	ug/kg	778	124	SW846 8260D	250	12/04/2024 16:51	JTH	A
Methyl cyclohexane	1050	S1	ug/kg	389	117	SW846 8260D	250	12/04/2024 16:51	JTH	A
Methyl t-Butyl Ether	ND	ND,S1	ug/kg	389	128	SW846 8260D	250	12/04/2024 16:51	JTH	A
Methylene Chloride	ND	ND,S1	ug/kg	389	175	SW846 8260D	250	12/04/2024 16:51	JTH	A
mp-Xylene	28300	S1	ug/kg	778	202	SW846 8260D	250	12/04/2024 16:51	JTH	A
o-Xylene	11500	S1	ug/kg	389	128	SW846 8260D	250	12/04/2024 16:51	JTH	A
Styrene	856	S1	ug/kg	389	93.3	SW846 8260D	250	12/04/2024 16:51	JTH	A
Tetrachloroethene	ND	ND,S1	ug/kg	389	136	SW846 8260D	250	12/04/2024 16:51	JTH	A
Toluene	23700	S1	ug/kg	389	89.4	SW846 8260D	250	12/04/2024 16:51	JTH	A
Total Xylenes	39800	S1	ug/kg	1170	257	SW846 8260D	250	12/04/2024 16:51	JTH	A
trans-1,2-Dichloroethene	ND	ND,S1	ug/kg	389	101	SW846 8260D	250	12/04/2024 16:51	JTH	A
trans-1,3-Dichloropropene	ND	ND,S1	ug/kg	389	113	SW846 8260D	250	12/04/2024 16:51	JTH	A
Trichloroethene	ND	ND,S1	ug/kg	389	128	SW846 8260D	250	12/04/2024 16:51	JTH	A
Trichlorofluoromethane	ND	ND,S1	ug/kg	389	93.3	SW846 8260D	250	12/04/2024 16:51	JTH	A
Vinyl Chloride	ND	ND,S1	ug/kg	389	117	SW846 8260D	250	12/04/2024 16:51	JTH	A

Results

Client Sample ID	IDW-S	Collected	11/21/2024 16:45
Lab Sample ID	3389099003	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	71 – 146	12/04/2024 16:51	
4-Bromofluorobenzene	460-00-4	99.5%	46 – 138	12/04/2024 16:51	
Dibromofluoromethane	1868-53-7	90.3%	42 – 143	12/04/2024 16:51	
Toluene-d8	2037-26-5	98.6%	54 – 141	12/04/2024 16:51	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Corrosivity as pH	8.95	7,8,S1	pH_Units			SW846 9045D	1	11/26/2024 12:15	KMS	E
Cyanide, Reactive	ND	ND,S1	mg/kg	10	0.011	SW-846 7.3CN	1	11/29/2024 13:53	KMV	E
Free Liquids	Negative	S1				SW846 9095B	1	11/26/2024 09:00	ZAS	E
Ignitability	Not ignitable.	9,S1				SW846 1030	1	11/22/2024 12:30	CAB	E
Moisture	25.1	S1	%	0.1	0.01	S2540G-15	1	11/22/2024 20:42	LMD	E
Solids, Total Volatile	21.5	S1	%	1.0	0.1	S2540G-15	1	11/27/2024 15:15	LMD	E
Specific Gravity	1.67	10,S1				S2710F-09	1	11/26/2024 11:40	NPF	D
Sulfide, Reactive	4.0J	J,S1	mg/kg	6.2	1.4	SW846 7.3	1	11/27/2024 16:49	KMV	E
Total Solids	74.9	S1	%	0.1	0.01	S2540G-15	1	11/22/2024 20:42	LMD	E

Results

Client Sample ID	IDW-W	Collected	11/21/2024 17:00
Lab Sample ID	3389099004	Lab Receipt	11/22/2024 09:07

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	2.8		mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/06/2024 10:08	MSY	E1
Arsenic, Total	0.010		mg/L	0.0090	0.0037	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Barium, Total	0.20		mg/L	0.011	0.0036	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Calcium, Total	148		mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Chromium, Total	0.014		mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Cobalt, Total	0.0070		mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Copper, Total	0.021		mg/L	0.011	0.0036	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Iron, Total	11.2		mg/L	0.067	0.022	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Lead, Total	0.028		mg/L	0.0067	0.0022	SW846 6010C	1	12/06/2024 10:08	MSY	E1
Magnesium, Total	119		mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Manganese, Total	1.8		mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/02/2024 13:42	AXW	E2
Nickel, Total	0.018J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Potassium, Total	57.6		mg/L	0.56	0.18	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Selenium, Total	0.0094J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Sodium, Total	109		mg/L	0.56	0.18	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Vanadium, Total	0.0040J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Zinc, Total	0.019J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:09	MSY	E1

PCBs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aroclor-1016	ND	ND	ug/L	2.0	0.68	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1221	ND	ND	ug/L	2.0	0.56	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1232	ND	ND	ug/L	2.0	0.72	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1242	ND	ND	ug/L	2.0	0.44	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1248	ND	ND	ug/L	2.0	0.40	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1254	ND	ND	ug/L	2.0	0.40	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1260	ND	ND	ug/L	2.0	0.84	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1262	ND	ND	ug/L	2.0	0.56	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1268	ND	ND	ug/L	2.0	0.76	SW846 8082A	1	11/27/2024 03:08	DXL	G
Total Polychlorinated Biphenyl	ND	ND	ug/L	2.0	1.1	SW846 8082A	1	11/27/2024 03:08	DXL	G

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	26.9*%	30 -140	11/27/2024 03:08	12,13
Tetrachloro-m-xylene	877-09-8	39.9%	30 -133	11/27/2024 03:08	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	IDW-W	Collected	11/21/2024 17:00
Lab Sample ID	3389099004	Lab Receipt	11/22/2024 09:07

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,4-Dimethylphenol	60.1		ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	15.0	10.8	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	11/27/2024 13:35	S7M	D
2-Methylnaphthalene	172		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	11/27/2024 13:35	S7M	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	11/27/2024 13:35	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
4-Nitrophenol	ND	ND	ug/L	7.5	2.8	SW846 8270E	1	11/27/2024 13:35	S7M	D
Acenaphthene	55.3		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Acenaphthylene	149		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Acetophenone	10.0		ug/L	7.5	2.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
Anthracene	33.0		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Benzo(a)anthracene	16.1		ug/L	3.8	0.70	SW846 8270E	1	11/27/2024 13:35	S7M	D
Benzo(a)pyrene	13.9		ug/L	3.8	0.65	SW846 8270E	1	11/27/2024 13:35	S7M	D
Benzo(b)fluoranthene	11.6		ug/L	3.8	0.75	SW846 8270E	1	11/27/2024 13:35	S7M	D
Benzo(g,h,i)perylene	8.5		ug/L	3.8	0.90	SW846 8270E	1	11/27/2024 13:35	S7M	D
Benzo(k)fluoranthene	11.6		ug/L	3.8	0.85	SW846 8270E	1	11/27/2024 13:35	S7M	D
Biphenyl	26.6		ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	11/27/2024 13:35	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	11/27/2024 13:35	S7M	D
Caprolactam	ND	ND	ug/L	7.5	0.90	SW846 8270E	1	11/27/2024 13:35	S7M	D
Carbazole	104		ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Chrysene	16.6		ug/L	3.8	0.65	SW846 8270E	1	11/27/2024 13:35	S7M	D
Dibenzo(a,h)anthracene	2.2J	J	ug/L	3.8	0.80	SW846 8270E	1	11/27/2024 13:35	S7M	D
Dibenzofuran	73.5		ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Diethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D

Results

Client Sample ID	IDW-W	Collected	11/21/2024 17:00
Lab Sample ID	3389099004	Lab Receipt	11/22/2024 09:07

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	11/27/2024 13:35	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Fluoranthene	69.7		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Fluorene	97.9		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	11/27/2024 13:35	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	11/27/2024 13:35	S7M	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Indeno(1,2,3-cd)pyrene	9.4		ug/L	3.8	0.78	SW846 8270E	1	11/27/2024 13:35	S7M	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	11/27/2024 13:35	S7M	D
mp-Cresol	53.4		ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
Naphthalene	4370	E	ug/L	37.5	16.3	SW846 8270E	10	11/29/2024 12:27	S7M	D
Nitrobenzene	ND	ND	ug/L	7.5	1.5	SW846 8270E	1	11/27/2024 13:35	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	11/27/2024 13:35	S7M	D
o-Cresol	30.5		ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	11/27/2024 13:35	S7M	D
Phenanthrene	161		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Phenol	30.0		ug/L	20.0	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
Pyrene	49.3		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	84.8%	23 – 131	11/27/2024 13:35	
2-Fluorobiphenyl	321-60-8	62.4%	24 – 116	11/27/2024 13:35	
2-Fluorophenol	367-12-4	34.5%	10 – 85	11/27/2024 13:35	
Nitrobenzene-d5	4165-60-0	62.1%	32 – 125	11/27/2024 13:35	
Phenol-d5	4165-62-2	26.3%	7 – 56	11/27/2024 13:35	
Terphenyl-d14	98904-43-9	62.8%	41 – 145	11/27/2024 13:35	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	20.0	4.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	20.0	6.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	20.0	5.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	20.0	5.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	40.0	18.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	40.0	12.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	40.0	16.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2,4-Trimethylbenzene	48.4		ug/L	20.0	5.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	140	30.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	20.0	5.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	20.0	7.6	SW846 8260D	20	11/27/2024 17:53	TMP	A

Results

Client Sample ID	IDW-W	Collected	11/21/2024 17:00
Lab Sample ID	3389099004	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2-Dichloroethane	ND	ND	ug/L	20.0	6.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	20.0	4.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,3,5-Trimethylbenzene	23.8		ug/L	20.0	4.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	20.0	5.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	20.0	5.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
2-Butanone	ND	ND	ug/L	200	36.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
2-Hexanone	ND	ND	ug/L	100	26.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	100	30.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
Acetone	ND	ND	ug/L	200	62.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
Benzene	6400		ug/L	50.0	11.5	SW846 8260D	50	11/30/2024 00:52	PDK	B
Bromochloromethane	ND	ND	ug/L	20.0	6.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
Bromodichloromethane	ND	ND	ug/L	20.0	5.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
Bromoform	ND	ND	ug/L	20.0	8.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
Bromomethane	ND	ND,11	ug/L	20.0	7.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Carbon Disulfide	ND	ND	ug/L	20.0	4.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	20.0	6.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
Chlorobenzene	ND	ND	ug/L	20.0	3.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Chlorodibromomethane	ND	ND	ug/L	20.0	9.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
Chloroethane	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Chloroform	ND	ND	ug/L	20.0	4.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
Chloromethane	ND	ND	ug/L	20.0	6.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	20.0	6.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	20.0	6.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
Cyclohexane	ND	ND	ug/L	20.0	5.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Ethylbenzene	50.4		ug/L	20.0	6.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Freon 113	ND	ND	ug/L	20.0	5.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
Isopropylbenzene	ND	ND	ug/L	20.0	4.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
Methyl acetate	ND	ND	ug/L	40.0	6.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
Methyl cyclohexane	ND	ND	ug/L	20.0	6.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Methylene Chloride	ND	ND	ug/L	20.0	9.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
mp-Xylene	125		ug/L	40.0	10.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
o-Xylene	57.5		ug/L	20.0	6.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Styrene	15.8J	J	ug/L	20.0	4.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Tetrachloroethene	ND	ND	ug/L	20.0	7.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
Toluene	179		ug/L	20.0	4.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Total Xylenes	183		ug/L	60.0	13.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	20.0	5.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	20.0	5.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Trichloroethene	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	20.0	4.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Vinyl Chloride	ND	ND	ug/L	20.0	6.0	SW846 8260D	20	11/27/2024 17:53	TMP	A

Results

Client Sample ID	IDW-W	Collected	11/21/2024 17:00
Lab Sample ID	3389099004	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	11/27/2024 17:53	
1,2-Dichloroethane-d4	17060-07-0	97.1%	62 – 133	11/30/2024 00:52	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	11/27/2024 17:53	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	11/30/2024 00:52	
Dibromofluoromethane	1868-53-7	101%	78 – 116	11/27/2024 17:53	
Dibromofluoromethane	1868-53-7	95.4%	78 – 116	11/30/2024 00:52	
Toluene-d8	2037-26-5	102%	76 – 127	11/27/2024 17:53	
Toluene-d8	2037-26-5	101%	76 – 127	11/30/2024 00:52	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Corrosivity as pH	7.95	8	pH_Units			SW846 9040C	1	11/27/2024 18:26	KMV	H
Cyanide, Reactive	ND	ND	mg/kg	10.0	0.011	SW-846 7.3CN	1	11/29/2024 13:53	KMV	G
Flashpoint/Ignitability	See comment.	14	Deg. F			SW-846 1010B	1	11/23/2024 09:25	CAB	G
Free Liquids	Positive					SW846 9095B	1	11/26/2024 09:00	ZAS	G
Sulfide, Reactive	5.2J	J	mg/kg	6.3	1.4	SW846 7.3	1	11/27/2024 16:49	KMV	G

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3389099003	IDW-S	SW846 9095B	N/A	
		SW846 6010C	SW846 3015A	SW846 1311
		SW846 7470A	SW846 7470A	SW846 1311
		SW846 8082A	SW846 3546	
		SW846 8270E	SW846 3546	
		SW846 8270E	SW846 3510C	SW846 1311
		SW846 8260D	N/A	SW846 1311
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
		S2540G-15	N/A	
		S2710F-09	N/A	
		SW846 1030	N/A	
		SW846 7.3	SW846 7.3	
		SW-846 7.3CN	SW-846 7.3CN	
		SW846 9045D	N/A	
3389099004	IDW-W	SW846 9095B	N/A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8082A	SW846 3511	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		SW-846 1010B	N/A	
		SW846 7.3	SW846 7.3	
		SW-846 7.3CN	SW-846 7.3CN	
		SW846 9040C	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1340185	Prep Method	SW846 3015A
Date	11/28/2024 01:45	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3389099004

Matrix Spike 3910000 (MS) 3389260007 (non-Project Sample) For QC Batch 1340185

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3910001 (MSD) 3389260007 (non-Project Sample) For QC Batch 1340185

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sodium, Total	7440-23-5	MS	44.8	21.80	22.20	104	75 - 125		
Sodium, Total	7440-23-5	MSD	45	21.80	22.20	104	75 - 125	RPD 0.39 (Max-20)	

Method Blank 3909998 (MB) Created on 11/25/2024 15:18 For QC Batch 1340185

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3909999 (LCS) Created on 11/25/2024 15:18 For QC Batch 1340185

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.1		1.10	100	80 - 120		
Antimony, Total	7440-36-0	LCS	0.24		0.22	107	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.11		0.11	100	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	104	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.23		0.22	104	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.11		0.11	103	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	98.1	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	104	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	104	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	99.6	80 - 120		
Iron, Total	7439-89-6	LCS	1.1		1.10	103	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	104	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.1		1.10	103	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	109	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	104	80 - 120		
Potassium, Total	7440-09-7	LCS	22.5		22.20	101	80 - 120		
Selenium, Total	7782-49-2	LCS	1.1		1.10	100	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	104	80 - 120		
Sodium, Total	7440-23-5	LCS	22.9		22.20	103	80 - 120		
Thallium, Total	7440-28-0	LCS	0.1		0.11	92.2	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.058		0.0560	105	80 - 120		
Zinc, Total	7440-66-6	LCS	0.56		0.56	101	80 - 120		

QC Batch

QC Batch	1348909	Prep Method	SW846 7470A
Date	12/02/2024 10:06	Analysis Method	SW846 7470A
Tech.	AXW		

Associated Samples

3389099004

Matrix Spike 3911958 (MS) 3389179002 (non-Project Sample) For QC Batch 1348909

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911959 (MSD) 3389179002 (non-Project Sample) For QC Batch 1348909

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0044	0.000033	0.0050	87.9	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0041	0.000033	0.0050	82.1	70 - 130	RPD 6.77 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3911960 (MS) 3389583005 (non-Project Sample) For QC Batch 1348909

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911961 (MSD) 3389583005 (non-Project Sample) For QC Batch 1348909

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0045	0.000089	0.0050	88.6	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0.000089	0.0050	94	70 - 130	RPD 5.80 (Max-20)	

Method Blank 3911956 (MB) Created on 12/02/2024 08:03 For QC Batch 1348909

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3911957 (LCS) Created on 12/02/2024 08:03 For QC Batch 1348909

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0019		0.0020	96.5	85 - 115		

QUALITY CONTROL SAMPLES

PCBs

QC Batch

QC Batch	1339884	Prep Method	SW846 3546
Date	11/26/2024 13:45	Analysis Method	SW846 8082A
Tech.	GED		

Associated Samples

3389099003

Duplicate

3909948 (DUP) 3389154002 (non-Project Sample) For QC Batch 1339884

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)				Qualifiers
Aroclor-1016	12674-11-2	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1221	11104-28-2	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1232	11141-16-5	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1242	53469-21-9	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1248	12672-29-6	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1254	11097-69-1	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1260	11096-82-5	DUP	0.0173	0.0174	RPD	0.11	(Max-40)	J
Aroclor-1262	37324-23-5	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1268	11100-14-4	DUP	0	0	RPD	0	(Max-40)	ND

SURROGATES

Compound	CAS No		Result (mg/kg)	Expected (mg/kg)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	DUP	0.074	0.0830	89	49 - 115	
Tetrachloro-m-xylene	877-09-8	DUP	0.072	0.0830	86.4	27 - 137	

Matrix Spike

3909949 (MS) 3389154003 (non-Project Sample) For QC Batch 1339884

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aroclor-1016	12674-11-2	MS	0.24	0	0.32	73.7	43 - 132		
Aroclor-1260	11096-82-5	MS	0.25	0.0410	0.32	64	53 - 134		

SURROGATES

Compound	CAS No		Result (mg/kg)	Expected (mg/kg)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	MS	0.074	0.0810	91.3	49 - 115	
Tetrachloro-m-xylene	877-09-8	MS	0.072	0.0810	88.5	27 - 137	

QUALITY CONTROL SAMPLES

PCBs (cont.)

Method Blank 3909946 (MB) Created on 11/25/2024 13:25 For QC Batch 1339884

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aroclor-1016	12674-11-2	BLK	ND	mg/kg	0.033	ND
Aroclor-1221	11104-28-2	BLK	ND	mg/kg	0.033	ND
Aroclor-1232	11141-16-5	BLK	ND	mg/kg	0.033	ND
Aroclor-1242	53469-21-9	BLK	ND	mg/kg	0.033	ND
Aroclor-1248	12672-29-6	BLK	ND	mg/kg	0.033	ND
Aroclor-1254	11097-69-1	BLK	ND	mg/kg	0.033	ND
Aroclor-1260	11096-82-5	BLK	ND	mg/kg	0.033	ND
Aroclor-1262	37324-23-5	BLK	ND	mg/kg	0.033	ND
Aroclor-1268	11100-14-4	BLK	ND	mg/kg	0.033	ND

SURROGATES

Compound	CAS No		Result (mg/kg)	Expected (mg/kg)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	BLK	0.084	0.0830	101	49 - 115	
Tetrachloro-m-xylene	877-09-8	BLK	0.079	0.0830	94.9	27 - 137	

Lab Control Standard 3909947 (LCS) Created on 11/25/2024 13:25 For QC Batch 1339884

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aroclor-1016	12674-11-2	LCS	0.25		0.33	73.7	43 - 132		
Aroclor-1260	11096-82-5	LCS	0.28		0.33	84.2	53 - 134		

SURROGATES

Compound	CAS No		Result (mg/kg)	Expected (mg/kg)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	LCS	0.09	0.0830	109	49 - 115	
Tetrachloro-m-xylene	877-09-8	LCS	0.081	0.0830	97.8	27 - 137	

QC Batch

QC Batch	1344598	Prep Method	SW846 3511
Date	11/26/2024 19:55	Analysis Method	SW846 8082A
Tech.	BMP		

Associated Samples

3389099004

Matrix Spike 3910801 (MS) 3389332001 (non-Project Sample) For QC Batch 1344598

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3910802 (MSD) 3389332001 (non-Project Sample) For QC Batch 1344598

QUALITY CONTROL SAMPLES

PCBs (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aroclor-1016	12674-11-2	MS	4.5	0	5	90.9	43 - 132		
Aroclor-1016	12674-11-2	MSD	4.4	0	5	88.4	43 - 132	RPD 2.83 (Max-40)	
Aroclor-1260	11096-82-5	MS	4.4	0	5	87.7	43 - 132		
Aroclor-1260	11096-82-5	MSD	3	0	5	59.8	43 - 132	RPD 37.90 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	MS	0.34	0.50	67.8	30 - 140	
Decachlorobiphenyl	2051-24-3	MSD	0.12	0.50	24.5*	30 - 140	
Tetrachloro-m-xylene	877-09-8	MS	0.5	0.50	100	30 - 133	
Tetrachloro-m-xylene	877-09-8	MSD	0.49	0.50	97.5	30 - 133	

Method Blank 3910799 (MB) Created on 11/26/2024 17:42 For QC Batch 1344598

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aroclor-1016	12674-11-2	BLK	ND	ug/L	0.50	ND
Aroclor-1221	11104-28-2	BLK	ND	ug/L	0.50	ND
Aroclor-1232	11141-16-5	BLK	ND	ug/L	0.50	ND
Aroclor-1242	53469-21-9	BLK	ND	ug/L	0.50	ND
Aroclor-1248	12672-29-6	BLK	ND	ug/L	0.50	ND
Aroclor-1254	11097-69-1	BLK	ND	ug/L	0.50	ND
Aroclor-1260	11096-82-5	BLK	ND	ug/L	0.50	ND
Aroclor-1262	37324-23-5	BLK	ND	ug/L	0.50	ND
Aroclor-1268	11100-14-4	BLK	ND	ug/L	0.50	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	BLK	0.47	0.50	94.1	30 - 140	
Tetrachloro-m-xylene	877-09-8	BLK	0.38	0.50	75.5	30 - 133	

Lab Control Standard 3910800 (LCS) Created on 11/26/2024 17:42 For QC Batch 1344598

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aroclor-1016	12674-11-2	LCS	4.2		5	83.5	43 - 132		
Aroclor-1260	11096-82-5	LCS	4.3		5	86.5	43 - 132		

QUALITY CONTROL SAMPLES

PCBs (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	LCS	0.4	0.50	79.8	30 - 140	
Tetrachloro-m-xylene	877-09-8	LCS	0.38	0.50	75.8	30 - 133	

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1338201	Prep Method	SW846 3546
Date	11/24/2024 19:55	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3389099003

Method Blank 3909286 (MB) Created on 11/22/2024 16:36 For QC Batch 1338201

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4100	5000	81.9	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	2020	2500	80.8	40 - 110	
2-Fluorophenol	367-12-4	BLK	4160	5000	83.3	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	2100	2500	83.9	38 - 112	
Phenol-d5	4165-62-2	BLK	4350	5000	87.1	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2380	2500	95.3	45 - 126	

Lab Control Standard 3909287 (LCS) Created on 11/22/2024 16:36 For QC Batch 1338201

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1950		2500	77.9	51 - 102		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS	1750		2500	69.8	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	3490		5000	69.7	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4270		5000	85.4	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4170		5000	83.4	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4380		5000	87.6	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	4500		5000	90	59 - 133		
2,4-Dinitrophenol	51-28-5	LCS	4270		5000	85.5	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2350		2500	93.9	62 - 115		
2,6-Dinitrotoluene	606-20-2	LCS	2290		2500	91.6	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	2120		2500	84.9	59 - 104		
2-Chlorophenol	95-57-8	LCS	4560		5000	91.2	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4540		5000	90.7	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	1990		2500	79.6	59 - 108		
2-Nitroaniline	88-74-4	LCS	2350		2500	94.1	60 - 115		
2-Nitrophenol	88-75-5	LCS	4560		5000	91.3	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3200		5000	64	25 - 104		
3-Nitroaniline	99-09-2	LCS	2480		2500	99.1	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	1920		2500	76.7	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	4290		5000	85.7	59 - 115		
4-Chloroaniline	106-47-8	LCS	2330		2500	93.4	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	1980		2500	79.2	59 - 107		
4-Nitroaniline	100-01-6	LCS	2480		2500	99.1	49 - 121		
4-Nitrophenol	100-02-7	LCS	4950		5000	99.1	53 - 124		
Acenaphthene	83-32-9	LCS	2120		2500	84.7	61 - 105		
Acenaphthylene	208-96-8	LCS	1870		2500	74.8	63 - 106		
Acetophenone	98-86-2	LCS	1900		2500	76	33 - 98		
Anthracene	120-12-7	LCS	2200		2500	88	60 - 107		
Atrazine	1912-24-9	LCS	2060		2500	82.5	62 - 116		
Benzaldehyde	100-52-7	LCS	2100		2500	83.9	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2220		2500	88.8	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2250		2500	90	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2190		2500	87.4	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	2660		2500	106	57 - 119		
Benzo(k)fluoranthene	207-08-9	LCS	2210		2500	88.4	63 - 116		
Biphenyl	92-52-4	LCS	1950		2500	77.9	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	2080		2500	83.1	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	2070		2500	82.6	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	1830		2500	73.2	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	1480		2500	59.1	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	1720		2500	68.8	58 - 125		
Caprolactam	105-60-2	LCS	2660		2500	107	51 - 119		
Carbazole	86-74-8	LCS	2320		2500	93	66 - 117		
Chrysene	218-01-9	LCS	2330		2500	93.1	65 - 113		
Dibenzo(a,h)anthracene	53-70-3	LCS	2410		2500	96.5	59 - 116		
Dibenzofuran	132-64-9	LCS	2080		2500	83.3	62 - 106		
Diethylphthalate	84-66-2	LCS	1950		2500	78	59 - 112		
Dimethylphthalate	131-11-3	LCS	2030		2500	81.3	60 - 111		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Di-n-Butylphthalate	84-74-2	LCS	1810		2500	72.4	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	1500		2500	60	47 - 134		
Fluoranthene	206-44-0	LCS	2230		2500	89.1	61 - 114		
Fluorene	86-73-7	LCS	2090		2500	83.6	62 - 107		
Hexachlorobenzene	118-74-1	LCS	2050		2500	81.9	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2120		2500	84.9	56 - 127		
Hexachlorocyclopentadiene	77-47-4	LCS	1180		2500	47.3	20 - 124		
Hexachloroethane	67-72-1	LCS	1890		2500	75.6	57 - 101		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	2360		2500	94.5	53 - 118		
Isophorone	78-59-1	LCS	1950		2500	78	41 - 101		
mp-Cresol	108394/106445	LCS	4310		5000	86.3	60 - 109		
Naphthalene	91-20-3	LCS	2100		2500	83.8	60 - 102		
Nitrobenzene	98-95-3	LCS	2170		2500	86.9	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	1970		2500	78.9	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2460		2500	98.4	73 - 129		
o-Cresol	95-48-7	LCS	4180		5000	83.6	61 - 108		
Pentachlorophenol	87-86-5	LCS	2990		5000	59.8	46 - 138		
Phenanthrene	85-01-8	LCS	2170		2500	87	61 - 106		
Phenol	108-95-2	LCS	4420		5000	88.5	57 - 110		
Pyrene	129-00-0	LCS	2170		2500	86.9	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	4280	5000	85.7	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	1970	2500	78.8	40 - 110	
2-Fluorophenol	367-12-4	LCS	4340	5000	86.8	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2150	2500	86.1	38 - 112	
Phenol-d5	4165-62-2	LCS	4440	5000	88.9	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2230	2500	89.3	45 - 126	

QUALITY CONTROL SAMPLES

TCLP EPA 1311 METALS

QC Batch

QC Batch	1340188	Prep Method	SW846 3015A
Date	11/26/2024 01:38	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3389099003

Leachate Blank 3909556 (LB) Created on 11/24/2024 08:14 For QC Batch 1340188

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Arsenic, Total	7440-38-2	BLK	ND	mg/L	.05	U
Barium, Total	7440-39-3	BLK	ND	mg/L	.05	U
Cadmium, Total	7440-43-9	BLK	ND	mg/L	.0099	U
Chromium, Total	7440-47-3	BLK	ND	mg/L	.025	U
Lead, Total	7439-92-1	BLK	ND	mg/L	.03	U
Selenium, Total	7782-49-2	BLK	ND	mg/L	.099	U
Silver, Total	7440-22-4	BLK	ND	mg/L	.02	U

Method Blank 3910028 (MB) Created on 11/25/2024 15:21 For QC Batch 1340188

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Arsenic, Total	7440-38-2	BLK	0.0033J	mg/L	0.011	J
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND

Lab Control Standard 3910029 (LCS) Created on 11/25/2024 15:21 For QC Batch 1340188

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Arsenic, Total	7440-38-2	LCS	0.11		0.11	98.4	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	105	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	104	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	105	80 - 120		
Lead, Total	7439-92-1	LCS	0.11		0.11	103	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	105	80 - 120		
Silver, Total	7440-22-4	LCS	0.11		0.11	102	80 - 120		

QUALITY CONTROL SAMPLES

TCLP EPA 1311 METALS (cont.)

Matrix Spike 3910030 (MS) 3389099003 For QC Batch 1340188

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3910031 (MSD) 3389099003 For QC Batch 1340188

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Arsenic, Total	7440-38-2	MS	0.53	0	0.50	105	50 - 150		
Arsenic, Total	7440-38-2	MSD	0.52	0	0.50	105	50 - 150	RPD 0.10 (Max-20)	
Barium, Total	7440-39-3	MS	5.5	0.54	5	98.6	50 - 150		
Barium, Total	7440-39-3	MSD	5.6	0.54	5	102	50 - 150	RPD 2.68 (Max-20)	
Cadmium, Total	7440-43-9	MS	0.49	0.0015	0.50	98.1	50 - 150		
Cadmium, Total	7440-43-9	MSD	0.51	0.0015	0.50	102	50 - 150	RPD 3.79 (Max-20)	
Chromium, Total	7440-47-3	MS	0.5	0.0065	0.50	99.7	50 - 150		
Chromium, Total	7440-47-3	MSD	0.52	0.0065	0.50	104	50 - 150	RPD 3.88 (Max-20)	
Lead, Total	7439-92-1	MS	0.47	0	0.50	94.2	50 - 150		
Lead, Total	7439-92-1	MSD	0.5	0	0.50	99.5	50 - 150	RPD 5.47 (Max-20)	
Selenium, Total	7782-49-2	MS	5.3	0	5	107	50 - 150		
Selenium, Total	7782-49-2	MSD	5.6	0	5	112	50 - 150	RPD 4.97 (Max-20)	
Silver, Total	7440-22-4	MS	0.52	0	0.50	104	50 - 150		
Silver, Total	7440-22-4	MSD	0.53	0	0.50	106	50 - 150	RPD 2.09 (Max-20)	

QC Batch

QC Batch	1348915	Prep Method	SW846 7470A
Date	12/02/2024 10:06	Analysis Method	SW846 7470A
Tech.	AXW		

Associated Samples

3389099003

Matrix Spike 3911993 (MS) 3387872002 (non-Project Sample) For QC Batch 1348915

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911994 (MSD) 3387872002 (non-Project Sample) For QC Batch 1348915

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0047	0.000042	0.0050	94	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0046	0.000042	0.0050	91.8	70 - 130	RPD 2.35 (Max-20)	

Leachate Blank 3909556 (LB) Created on 11/24/2024 08:14 For QC Batch 1348915

QUALITY CONTROL SAMPLES

TCLP EPA 1311 METALS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	.0005	U

Method Blank 3911991 (MB) Created on 12/02/2024 08:10 For QC Batch 1348915

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3911992 (LCS) Created on 12/02/2024 08:10 For QC Batch 1348915

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0017		0.0020	85	85 - 115		

QUALITY CONTROL SAMPLES

TCLP EPA 1311 SEMI-VOLATILES

QC Batch

QC Batch	1345189	Prep Method	SW846 3510C
Date	11/26/2024 22:00	Analysis Method	SW846 8270E
Tech.	S7M		

Associated Samples

3389099003 3389099004

Leachate Blank 3909556 (LB) Created on 11/24/2024 08:14 For QC Batch 1345189

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	15	U
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	15	U
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	15	U
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	15	U
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	15	U
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	15	U
Hexachloroethane	67-72-1	BLK	ND	ug/L	15	U
mp-Cresol	108394/106445	BLK	ND	ug/L	15	U
Nitrobenzene	98-95-3	BLK	ND	ug/L	15	U
o-Cresol	95-48-7	BLK	ND	ug/L	15	U
Pentachlorophenol	87-86-5	BLK	ND	ug/L	40	U
Pyridine	110-86-1	BLK	ND	ug/L	15	U

Method Blank 3910856 (MB) Created on 11/27/2024 06:39 For QC Batch 1345189

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

TCLP EPA 1311 SEMI-VOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND

QUALITY CONTROL SAMPLES

TCLP EPA 1311 SEMI-VOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND
Pyridine	110-86-1	BLK	ND	ug/L	3.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	94.2	100	94.2	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	41	50	82	24 - 116	
2-Fluorophenol	367-12-4	BLK	59.4	100	59.4	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	42.6	50	85.1	32 - 125	
Phenol-d5	4165-62-2	BLK	39.8	100	39.8	7 - 56	
Terphenyl-d14	98904-43-9	BLK	41.6	50	83.3	41 - 145	

Lab Control Standard 3910857 (LCS) Created on 11/27/2024 06:40 For QC Batch 1345189

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	30.3		50	60.5	18 - 124		
1,4-Dichlorobenzene	106-46-7	LCS	23.9		50	47.7	5 - 116		
1,4-Dioxane	123-91-1	LCS	26.5		50	53	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	89.3		100	89.3	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	86.7		100	86.7	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	84		100	84	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	82.4		100	82.4	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	83.9		100	83.9	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	75.9		100	75.9	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	52.3		50	105	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	49.7		50	99.4	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	34.6		50	69.1	27 - 125		
2-Chlorophenol	95-57-8	LCS	74.8		100	74.8	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	82.3		100	82.3	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	34.5		50	68.9	22 - 124		
2-Nitroaniline	88-74-4	LCS	47.8		50	95.6	55 - 138		
2-Nitrophenol	88-75-5	LCS	83.4		100	83.4	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	43.3		100	43.3	38 - 115		
3-Nitroaniline	99-09-2	LCS	43.1		50	86.1	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	47.7		50	95.4	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	83.9		100	83.9	46 - 144		
4-Chloroaniline	106-47-8	LCS	30.1		50	60.1	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	46.7		50	93.5	38 - 128		
4-Nitroaniline	100-01-6	LCS	45		50	90.1	53 - 124		
4-Nitrophenol	100-02-7	LCS	39.3		100	39.3	5 - 108		
Acenaphthene	83-32-9	LCS	39.6		50	79.1	36 - 130		
Acenaphthylene	208-96-8	LCS	34.7		50	69.3	39 - 130		
Acetophenone	98-86-2	LCS	36.7		50	73.3	49 - 117		

QUALITY CONTROL SAMPLES

TCLP EPA 1311 SEMI-VOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Anthracene	120-12-7	LCS	46.8		50	93.5	48 - 133		
Atrazine	1912-24-9	LCS	51.6		50	103	44 - 149		
Benzaldehyde	100-52-7	LCS	43.2		50	86.4	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	45.6		50	91.3	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	45.7		50	91.5	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	48.2		50	96.4	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	44.8		50	89.6	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	48.2		50	96.4	52 - 130		
Biphenyl	92-52-4	LCS	33.8		50	67.5	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	44.2		50	88.4	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	40.6		50	81.2	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	34.9		50	69.8	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	44.9		50	89.7	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	47.6		50	95.3	50 - 137		
Caprolactam	105-60-2	LCS	18.3		50	36.7	5 - 118		
Carbazole	86-74-8	LCS	45.1		50	90.1	52 - 139		
Chrysene	218-01-9	LCS	47		50	93.9	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	48		50	96	56 - 130		
Dibenzofuran	132-64-9	LCS	41.4		50	82.7	39 - 133		
Diethylphthalate	84-66-2	LCS	50.7		50	101	45 - 132		
Dimethylphthalate	131-11-3	LCS	47.9		50	95.9	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	47.7		50	95.4	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	48.9		50	97.8	35 - 141		
Fluoranthene	206-44-0	LCS	48.2		50	96.5	49 - 132		
Fluorene	86-73-7	LCS	45.3		50	90.6	42 - 131		
Hexachlorobenzene	118-74-1	LCS	47.7		50	95.3	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	25.9		50	51.8	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	11.4		50	22.8	5 - 97		
Hexachloroethane	67-72-1	LCS	18.8		50	37.6	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	44.6		50	89.1	55 - 126		
Isophorone	78-59-1	LCS	41.4		50	82.7	45 - 129		
mp-Cresol	108394/106445	LCS	72.1		100	72.1	28 - 128		
Naphthalene	91-20-3	LCS	31.4		50	62.7	21 - 123		
Nitrobenzene	98-95-3	LCS	37.4		50	74.7	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	40.5		50	81	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	55.6		50	111	58 - 125		
o-Cresol	95-48-7	LCS	68.4		100	68.4	34 - 136		
Pentachlorophenol	87-86-5	LCS	86.7		100	86.7	41 - 149		
Phenanthrene	85-01-8	LCS	45.5		50	91	46 - 131		
Phenol	108-95-2	LCS	40.4		100	40.4	5 - 111		
Pyrene	129-00-0	LCS	44		50	87.9	48 - 134		
Pyridine	110-86-1	LCS	22.8		50	45.5	5 - 115		

QUALITY CONTROL SAMPLES

TCLP EPA 1311 SEMI-VOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	96.7	100	96.7	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	41.6	50	83.2	24 - 116	
2-Fluorophenol	367-12-4	LCS	54.1	100	54.1	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	41.6	50	83.3	32 - 125	
Phenol-d5	4165-62-2	LCS	39	100	39	7 - 56	
Terphenyl-d14	98904-43-9	LCS	43.9	50	87.7	41 - 145	

QUALITY CONTROL SAMPLES

TCLP EPA 1311 VOLATILE ORGANIC

QC Batch

QC Batch	1348205	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3389099003

Leachate Blank 3910320 (LB) Created on 11/26/2024 08:31 For QC Batch 1348205

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	20	U
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	20	U
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	20	U
2-Butanone	78-93-3	BLK	ND	ug/L	200	U
Benzene	71-43-2	BLK	ND	ug/L	20	U
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	20	U
Chlorobenzene	108-90-7	BLK	ND	ug/L	20	U
Chloroform	67-66-3	BLK	ND	ug/L	20	U
Tetrachloroethene	127-18-4	BLK	ND	ug/L	20	U
Trichloroethene	79-01-6	BLK	ND	ug/L	20	U
Vinyl Chloride	75-01-4	BLK	ND	ug/L	20	U

Method Blank 3911676 (MB) Created on 11/30/2024 11:12 For QC Batch 1348205

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.7	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.7	30	98.8	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.8	30	95.9	78 - 116	
Toluene-d8	2037-26-5	BLK	30	30	99.9	76 - 127	

QUALITY CONTROL SAMPLES

TCLP EPA 1311 VOLATILE ORGANIC (cont.)

Lab Control Standard 3911677 (LCS) Created on 11/30/2024 11:12 For QC Batch 1348205

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1-Dichloroethene	75-35-4	LCS	19.8		20	98.9	63 - 128		
1,2-Dichloroethane	107-06-2	LCS	19.1		20	95.6	70 - 133		
2-Butanone	78-93-3	LCS	95.9		100	95.9	50 - 152		
Benzene	71-43-2	LCS	19.2		20	96	80 - 124		
Carbon Tetrachloride	56-23-5	LCS	18.1		20	90.5	62 - 132		
Chlorobenzene	108-90-7	LCS	18.8		20	94.2	85 - 117		
Chloroform	67-66-3	LCS	19.5		20	97.3	78 - 122		
Tetrachloroethene	127-18-4	LCS	16.4		20	81.8	72 - 124		
Trichloroethene	79-01-6	LCS	18.5		20	92.3	77 - 124		
Vinyl Chloride	75-01-4	LCS	18.7		20	93.6	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	30.3	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	28.3	30	94.4	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	28	30	93.4	78 - 116	
Toluene-d8	2037-26-5	LCS	28	30	93.3	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1345806	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3389099004

Matrix Spike 3911315 (MS) 3388588011 (non-Project Sample) For QC Batch 1345806

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911316 (MSD) 3388588011 (non-Project Sample) For QC Batch 1345806

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	24.5	0	20	122	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	23.8	0	20	119	66 - 130	RPD 2.60 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	26.7	0	20	133	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	25.5	0	20	128	74 - 135	RPD 4.33 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	25	0	20	125	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	22.9	0	20	115	82 - 126	RPD 8.55 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	23.5	0	20	118	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	22.6	0	20	113	78 - 124	RPD 4.16 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	24.6	0	20	123	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	24.1	0	20	120	63 - 128	RPD 1.98 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	24.4	0	20	122	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	23.1	0	20	115	61 - 126	RPD 5.63 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	25.7	0	20	128	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	24.5	0	20	122	75 - 132	RPD 4.76 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	25.7	0	20	128*	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	24.8	0	20	124*	67 - 123	RPD 3.70 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	25.2	0	20	126*	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	23.7	0	20	118	76 - 125	RPD 6.11 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	25.7	0	20	128	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	24.6	0	20	123	59 - 133	RPD 4.17 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	25.4	0	20	127*	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	23.7	0	20	118	80 - 124	RPD 6.86 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	23.6	0	20	118	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	22.5	0	20	113	82 - 118	RPD 4.45 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	22.4	0	20	112	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	21.5	0	20	107	70 - 133	RPD 3.92 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	23.7	0	20	118	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	22.7	0	20	114	81 - 127	RPD 4.04 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	25.5	0	20	127*	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	23.9	0	20	120	76 - 125	RPD 6.24 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	23.2	0	20	116	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	22.1	0	20	111	81 - 118	RPD 4.68 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	23.2	0	20	116	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	22.1	0	20	111	81 - 116	RPD 4.96 (Max-15)	
2-Butanone	78-93-3	MS	123	0	100	123	50 - 152		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Butanone	78-93-3	MSD	114	0	100	114	50 - 152	RPD 7.37 (Max-16)	
2-Hexanone	591-78-6	MS	131	0	100	131	65 - 154		
2-Hexanone	591-78-6	MSD	122	0	100	122	65 - 154	RPD 7.75 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	134	0	100	134	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	124	0	100	124	71 - 146	RPD 7.39 (Max-16)	
Acetone	67-64-1	MS	112	0	100	112	40 - 151		
Acetone	67-64-1	MSD	108	0	100	108	40 - 151	RPD 3.78 (Max-40)	
Bromochloromethane	74-97-5	MS	23.4	0	20	117	73 - 117		
Bromochloromethane	74-97-5	MSD	22.5	0	20	113	73 - 117	RPD 3.88 (Max-19)	
Bromodichloromethane	75-27-4	MS	24.4	0	20	122	79 - 126		
Bromodichloromethane	75-27-4	MSD	23.9	0	20	119	79 - 126	RPD 2.08 (Max-16)	
Bromoform	75-25-2	MS	23.3	0	20	117	70 - 123		
Bromoform	75-25-2	MSD	22.1	0	20	111	70 - 123	RPD 5.28 (Max-16)	
Bromomethane	74-83-9	MS	16.1	0	20	80.5	45 - 148		
Bromomethane	74-83-9	MSD	15.9	0	20	79.5	45 - 148	RPD 1.33 (Max-26)	
Carbon Disulfide	75-15-0	MS	23.6	0	20	118	57 - 131		
Carbon Disulfide	75-15-0	MSD	23.1	0	20	116	57 - 131	RPD 1.79 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	21.8	0	20	109	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	20.1	0	20	100	62 - 132	RPD 8.22 (Max-17)	
Chlorobenzene	108-90-7	MS	23.3	0	20	116	85 - 117		
Chlorobenzene	108-90-7	MSD	21.4	0	20	107	85 - 117	RPD 8.42 (Max-15)	
Chlorodibromomethane	124-48-1	MS	21.4	0	20	107	77 - 122		
Chlorodibromomethane	124-48-1	MSD	20.2	0	20	101	77 - 122	RPD 6.16 (Max-15)	
Chloroethane	75-00-3	MS	23.1	0	20	116	51 - 142		
Chloroethane	75-00-3	MSD	23.7	0	20	119	51 - 142	RPD 2.50 (Max-24)	
Chloroform	67-66-3	MS	22.4	0	20	112	78 - 122		
Chloroform	67-66-3	MSD	21.7	0	20	108	78 - 122	RPD 3.45 (Max-16)	
Chloromethane	74-87-3	MS	22.4	0	20	112	38 - 156		
Chloromethane	74-87-3	MSD	21.9	0	20	109	38 - 156	RPD 2.21 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	24.8	0.74	20	120	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	23.9	0.74	20	116	78 - 125	RPD 3.81 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	21.6	0	20	108	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	20	0	20	100	81 - 121	RPD 7.81 (Max-16)	
Cyclohexane	110-82-7	MS	25.1	0	20	126	66 - 130		
Cyclohexane	110-82-7	MSD	24.3	0	20	121	66 - 130	RPD 3.50 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	23.2	0	20	116	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	22.4	0	20	112	17 - 166	RPD 3.68 (Max-24)	
Ethylbenzene	100-41-4	MS	24.1	0	20	121	80 - 124		
Ethylbenzene	100-41-4	MSD	22.4	0	20	112	80 - 124	RPD 7.36 (Max-19)	
Freon 113	76-13-1	MS	25.7	0	20	129	50 - 130		
Freon 113	76-13-1	MSD	24.7	0	20	124	50 - 130	RPD 4.06 (Max-26)	
Isopropylbenzene	98-82-8	MS	27.6	0	20	138*	73 - 129		
Isopropylbenzene	98-82-8	MSD	26.2	0	20	131*	73 - 129	RPD 4.98 (Max-18)	
Methyl acetate	79-20-9	MS	23.2	0	20	116	70 - 130		
Methyl acetate	79-20-9	MSD	21.8	0	20	109	70 - 130	RPD 6.20 (Max-18)	
Methyl cyclohexane	108-87-2	MS	25.5	0	20	128	70 - 130		
Methyl cyclohexane	108-87-2	MSD	23.8	0	20	119	70 - 130	RPD 7.04 (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	24.2	0	20	121*	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	23.6	0	20	118*	69 - 115	RPD 2.73 (Max-20)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methylene Chloride	75-09-2	MS	23.5	0	20	118	76 - 121		
Methylene Chloride	75-09-2	MSD	22.5	0	20	112	76 - 121	RPD 4.55 (Max-17)	
mp-Xylene	108383/106423	MS	48	0	40	120	79 - 125		
mp-Xylene	108383/106423	MSD	44.5	0	40	111	79 - 125	RPD 7.64 (Max-21)	
o-Xylene	95-47-6	MS	23.9	0	20	119	79 - 124		
o-Xylene	95-47-6	MSD	22.3	0	20	112	79 - 124	RPD 6.61 (Max-19)	
Styrene	100-42-5	MS	21.4	0	20	107	79 - 123		
Styrene	100-42-5	MSD	20.3	0	20	101	79 - 123	RPD 5.44 (Max-16)	
Tetrachloroethene	127-18-4	MS	22.2	0	20	111	72 - 124		
Tetrachloroethene	127-18-4	MSD	20.6	0	20	103	72 - 124	RPD 7.53 (Max-38)	
Toluene	108-88-3	MS	24.4	0.29	20	120	80 - 125		
Toluene	108-88-3	MSD	22.5	0.29	20	111	80 - 125	RPD 8.04 (Max-20)	
Total Xylenes	1330-20-7	MS	71.9	0	60	120	79 - 125		
Total Xylenes	1330-20-7	MSD	66.8	0	60	111	79 - 125	RPD 7.30 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	23.9	0	20	119	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	22.6	0	20	113	71 - 122	RPD 5.33 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.9	0	20	109	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	20.2	0	20	101	78 - 126	RPD 8.05 (Max-18)	
Trichloroethene	79-01-6	MS	22.8	0	20	114	77 - 124		
Trichloroethene	79-01-6	MSD	21.9	0	20	110	77 - 124	RPD 3.97 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	25.2	0	20	126*	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	24.3	0	20	122	38 - 123	RPD 3.71 (Max-23)	
Vinyl Chloride	75-01-4	MS	25.6	0	20	128	27 - 138		
Vinyl Chloride	75-01-4	MSD	24.4	0	20	122	27 - 138	RPD 5.14 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	30.6	30	102	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	30	30	99.8	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	29.6	30	98.5	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	30.4	30	101	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.7	30	102	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	29.6	30	98.5	78 - 116	
Toluene-d8	2037-26-5	MS	30.7	30	102	76 - 127	
Toluene-d8	2037-26-5	MSD	29.7	30	98.9	76 - 127	

Method Blank 3911023 (MB) Created on 11/27/2024 10:07 For QC Batch 1345806

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.1	30	107	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	31	30	103	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	30.8	30	103	78 - 116	
Toluene-d8	2037-26-5	BLK	32.6	30	109	76 - 127	

Lab Control Standard 3911024 (LCS) Created on 11/27/2024 10:07 For QC Batch 1345806

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.6		20	108	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	23		20	115	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	22.1		20	111	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.8		20	104	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.7		20	108	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.2		20	111	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22.7		20	113	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.6		20	118	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22		20	110	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	22.7		20	114	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	21.8		20	109	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.4		20	107	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.1		20	101	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21.1		20	105	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.3		20	111	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.8		20	104	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.8		20	104	81 - 116		
2-Butanone	78-93-3	LCS	128		100	128	50 - 152		
2-Hexanone	591-78-6	LCS	120		100	120	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	113		100	113	71 - 146		
Acetone	67-64-1	LCS	143		100	143	40 - 151		
Bromochloromethane	74-97-5	LCS	21.9		20	109	73 - 117		
Bromodichloromethane	75-27-4	LCS	22.4		20	112	79 - 126		
Bromoform	75-25-2	LCS	21.1		20	106	70 - 123		
Bromomethane	74-83-9	LCS	14.9		20	74.7	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.4		20	107	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.5		20	97.6	62 - 132		
Chlorobenzene	108-90-7	LCS	20.4		20	102	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.3		20	96.6	77 - 122		
Chloroethane	75-00-3	LCS	20		20	100	51 - 142		
Chloroform	67-66-3	LCS	20.1		20	101	78 - 122		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloromethane	74-87-3	LCS	20.5		20	102	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21.4		20	107	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.4		20	97	81 - 121		
Cyclohexane	110-82-7	LCS	22		20	110	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	20.7		20	104	17 - 166		
Ethylbenzene	100-41-4	LCS	21.1		20	105	80 - 124		
Freon 113	76-13-1	LCS	22.2		20	111	50 - 130		
Isopropylbenzene	98-82-8	LCS	24.5		20	123	73 - 129		
Methyl acetate	79-20-9	LCS	22.9		20	114	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22.1		20	111	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	22.3		20	111	69 - 115		
Methylene Chloride	75-09-2	LCS	21.1		20	106	76 - 121		
mp-Xylene	108383/106423	LCS	42		40	105	79 - 125		
o-Xylene	95-47-6	LCS	21		20	105	79 - 124		
Styrene	100-42-5	LCS	19.3		20	96.7	79 - 123		
Tetrachloroethene	127-18-4	LCS	20.6		20	103	72 - 124		
Toluene	108-88-3	LCS	21.1		20	106	80 - 125		
Total Xylenes	1330-20-7	LCS	63		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21		20	105	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.5		20	97.4	78 - 126		
Trichloroethene	79-01-6	LCS	19.9		20	99.5	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21.8		20	109	38 - 123		
Vinyl Chloride	75-01-4	LCS	22.6		20	113	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.5	30	98.3	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.2	30	97.2	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30	30	100	78 - 116	
Toluene-d8	2037-26-5	LCS	29.9	30	99.7	76 - 127	

QC Batch

QC Batch	1348188	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3389099004

Matrix Spike 3911634 (MS) 3388860010 (non-Project Sample) For QC Batch 1348188

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911635 (MSD) 3388860010 (non-Project Sample) For QC Batch 1348188

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	110	0	100	110	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	116	0	100	116	66 - 130	RPD 5.31 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	103	0	100	103	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	109	0	100	109	74 - 135	RPD 4.74 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	98.7	0	100	98.7	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	104	0	100	104	82 - 126	RPD 5.31 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	109	0	100	109	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	110	0	100	110	78 - 124	RPD 1.26 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	121	0	100	121	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	122	0	100	122	63 - 128	RPD 0.42 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	110	0	100	110	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	120	0	100	120	61 - 126	RPD 8.71 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	128	0	100	128	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	131	0	100	131	75 - 132	RPD 2.27 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	118	0	100	118	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	125	0	100	125*	67 - 123	RPD 5.85 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	235	125	100	110	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	250	125	100	124	76 - 125	RPD 6.04 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	112	0	100	112	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	119	0	100	119	59 - 133	RPD 6.15 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	99.4	0	100	99.4	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	103	0	100	103	80 - 124	RPD 3.64 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	105	0	100	105	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	111	0	100	111	82 - 118	RPD 5.36 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	97.9	0	100	97.9	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	103	0	100	103	70 - 133	RPD 5.20 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	104	0	100	104	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	108	0	100	108	81 - 127	RPD 3.61 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	155	39.50	100	116	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	164	39.50	100	124	76 - 125	RPD 5.24 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	109	0	100	109	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	114	0	100	114	81 - 118	RPD 4.95 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	106	0	100	106	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	112	0	100	112	81 - 116	RPD 5.19 (Max-15)	
2-Butanone	78-93-3	MS	424	0	500	84.7	50 - 152		
2-Butanone	78-93-3	MSD	434	0	500	86.8	50 - 152	RPD 2.43 (Max-16)	
2-Hexanone	591-78-6	MS	422	0	500	84.4	65 - 154		
2-Hexanone	591-78-6	MSD	455	0	500	91.1	65 - 154	RPD 7.66 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	422	0	500	84.5	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	459	0	500	91.7	71 - 146	RPD 8.23 (Max-16)	
Acetone	67-64-1	MS	394	19.70	500	74.9	40 - 151		
Acetone	67-64-1	MSD	404	19.70	500	76.8	40 - 151	RPD 2.36 (Max-40)	
Benzene	71-43-2	MS	133	31.10	100	102	80 - 124		
Benzene	71-43-2	MSD	139	31.10	100	108	80 - 124	RPD 4.25 (Max-26)	
Bromochloromethane	74-97-5	MS	102	0	100	102	73 - 117		
Bromochloromethane	74-97-5	MSD	110	0	100	110	73 - 117	RPD 7.34 (Max-19)	
Bromodichloromethane	75-27-4	MS	106	0	100	106	79 - 126		
Bromodichloromethane	75-27-4	MSD	113	0	100	113	79 - 126	RPD 6 (Max-16)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromoform	75-25-2	MS	79	0	100	79	70 - 123		
Bromoform	75-25-2	MSD	87.1	0	100	87.1	70 - 123	RPD 9.78 (Max-16)	
Bromomethane	74-83-9	MS	69.4	0	100	69.4	45 - 148		
Bromomethane	74-83-9	MSD	80.6	0	100	80.6	45 - 148	RPD 14.90 (Max-26)	
Carbon Disulfide	75-15-0	MS	112	0	100	112	57 - 131		
Carbon Disulfide	75-15-0	MSD	112	0	100	112	57 - 131	RPD 0.76 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	104	0	100	104	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	110	0	100	110	62 - 132	RPD 6.33 (Max-17)	
Chlorobenzene	108-90-7	MS	97.9	0	100	97.9	85 - 117		
Chlorobenzene	108-90-7	MSD	106	0	100	106	85 - 117	RPD 7.52 (Max-15)	
Chlorodibromomethane	124-48-1	MS	114	0	100	114	77 - 122		
Chlorodibromomethane	124-48-1	MSD	103	0	100	103	77 - 122	RPD 9.86 (Max-15)	
Chloroethane	75-00-3	MS	97.6	0	100	97.6	51 - 142		
Chloroethane	75-00-3	MSD	103	0	100	103	51 - 142	RPD 5.43 (Max-24)	
Chloroform	67-66-3	MS	106	0	100	106	78 - 122		
Chloroform	67-66-3	MSD	110	0	100	110	78 - 122	RPD 2.94 (Max-16)	
Chloromethane	74-87-3	MS	103	0	100	103	38 - 156		
Chloromethane	74-87-3	MSD	101	0	100	101	38 - 156	RPD 2.28 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	110	0	100	110	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	114	0	100	114	78 - 125	RPD 3 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	99.2	0	100	99.2	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	107	0	100	107	81 - 121	RPD 7.95 (Max-16)	
Cyclohexane	110-82-7	MS	114	0	100	114	66 - 130		
Cyclohexane	110-82-7	MSD	117	0	100	117	66 - 130	RPD 3.14 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	97	0	100	97	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	94.6	0	100	94.6	17 - 166	RPD 2.43 (Max-24)	
Ethylbenzene	100-41-4	MS	108	0	100	108	80 - 124		
Ethylbenzene	100-41-4	MSD	115	0	100	115	80 - 124	RPD 6.14 (Max-19)	
Freon 113	76-13-1	MS	117	0	100	117	50 - 130		
Freon 113	76-13-1	MSD	116	0	100	116	50 - 130	RPD 1.16 (Max-26)	
Isopropylbenzene	98-82-8	MS	151	14.80	100	136*	73 - 129		
Isopropylbenzene	98-82-8	MSD	155	14.80	100	140*	73 - 129	RPD 2.60 (Max-18)	
Methyl acetate	79-20-9	MS	89.5	1.80	100	87.8	70 - 130		
Methyl acetate	79-20-9	MSD	93.2	1.80	100	91.4	70 - 130	RPD 3.98 (Max-18)	
Methyl cyclohexane	108-87-2	MS	110	0	100	110	70 - 130		
Methyl cyclohexane	108-87-2	MSD	118	0	100	118	70 - 130	RPD 6.22 (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	107	0	100	107	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	110	0	100	110	69 - 115	RPD 2.09 (Max-20)	
Methylene Chloride	75-09-2	MS	108	0	100	108	76 - 121		
Methylene Chloride	75-09-2	MSD	110	0	100	110	76 - 121	RPD 1.31 (Max-17)	
mp-Xylene	108383/106423	MS	334	133	200	100	79 - 125		
mp-Xylene	108383/106423	MSD	359	133	200	113	79 - 125	RPD 7.22 (Max-21)	
o-Xylene	95-47-6	MS	197	101	100	96.1	79 - 124		
o-Xylene	95-47-6	MSD	215	101	100	114	79 - 124	RPD 8.56 (Max-19)	
Styrene	100-42-5	MS	281	158	100	123	79 - 123		
Styrene	100-42-5	MSD	300	158	100	142*	79 - 123	RPD 6.51 (Max-16)	
Tetrachloroethene	127-18-4	MS	91.9	9.80	100	82.2	72 - 124		
Tetrachloroethene	127-18-4	MSD	101	9.80	100	91.3	72 - 124	RPD 9.47 (Max-38)	
Toluene	108-88-3	MS	126	25.10	100	101	80 - 125		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Toluene	108-88-3	MSD	137	25.10	100	112	80 - 125	RPD 8.47 (Max-20)	
Total Xylenes	1330-20-7	MS	531	234	300	98.9	79 - 125		
Total Xylenes	1330-20-7	MSD	574	234	300	113	79 - 125	RPD 7.72 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	113	0	100	113	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	116	0	100	116	71 - 122	RPD 2.78 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	86.5	0	100	86.5	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	93.5	0	100	93.5	78 - 126	RPD 7.74 (Max-18)	
Trichloroethene	79-01-6	MS	135	37	100	98.1	77 - 124		
Trichloroethene	79-01-6	MSD	141	37	100	104	77 - 124	RPD 3.94 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	114	0	100	114	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	113	0	100	113	38 - 123	RPD 1.35 (Max-23)	
Vinyl Chloride	75-01-4	MS	110	0	100	110	27 - 138		
Vinyl Chloride	75-01-4	MSD	110	0	100	110	27 - 138	RPD 0.16 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	152	150	101	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	153	150	102	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	150	150	99.7	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	150	150	100	79 - 114	
Dibromofluoromethane	1868-53-7	MS	147	150	98.2	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	146	150	97.3	78 - 116	
Toluene-d8	2037-26-5	MS	144	150	96	76 - 127	
Toluene-d8	2037-26-5	MSD	148	150	98.7	76 - 127	

Method Blank 3911632 (MB) Created on 11/29/2024 22:41 For QC Batch 1348188

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30	30	99.9	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.7	30	99	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.6	30	95.2	78 - 116	
Toluene-d8	2037-26-5	BLK	30.1	30	100	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Lab Control Standard 3911633 (LCS) Created on 11/29/2024 22:41 For QC Batch 1348188

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	20.6		20	103	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21		20	105	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	19.9		20	99.6	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.2		20	101	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.2		20	106	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	20.2		20	101	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	19.2		20	96.1	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	22.5		20	113	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22.5		20	112	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.3		20	102	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	18.3		20	91.5	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.4		20	102	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.8		20	98.8	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.3		20	102	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.2		20	111	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.6		20	103	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.7		20	104	81 - 116		
2-Butanone	78-93-3	LCS	99.1		100	99.1	50 - 152		
2-Hexanone	591-78-6	LCS	103		100	103	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	93.4		100	93.4	71 - 146		
Acetone	67-64-1	LCS	108		100	108	40 - 151		
Benzene	71-43-2	LCS	20		20	99.8	80 - 124		
Bromochloromethane	74-97-5	LCS	20		20	100	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.2		20	106	79 - 126		
Bromoform	75-25-2	LCS	15.8		20	79	70 - 123		
Bromomethane	74-83-9	LCS	20		20	100	45 - 148		
Carbon Disulfide	75-15-0	LCS	20		20	99.8	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	18.4		20	92	62 - 132		
Chlorobenzene	108-90-7	LCS	19.4		20	96.8	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.1		20	95.4	77 - 122		
Chloroethane	75-00-3	LCS	24.2		20	121	51 - 142		
Chloroform	67-66-3	LCS	20.2		20	101	78 - 122		
Chloromethane	74-87-3	LCS	22.6		20	113	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21		20	105	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.2		20	101	81 - 121		
Cyclohexane	110-82-7	LCS	20.8		20	104	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	22.1		20	111	17 - 166		
Ethylbenzene	100-41-4	LCS	19.7		20	98.6	80 - 124		
Freon 113	76-13-1	LCS	20.4		20	102	50 - 130		
Isopropylbenzene	98-82-8	LCS	24.3		20	122	73 - 129		
Methyl acetate	79-20-9	LCS	18		20	90	70 - 130		
Methyl cyclohexane	108-87-2	LCS	21.6		20	108	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.1		20	101	69 - 115		
Methylene Chloride	75-09-2	LCS	19.3		20	96.6	76 - 121		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
mp-Xylene	108383/106423	LCS	40.1		40	100	79 - 125		
o-Xylene	95-47-6	LCS	19.5		20	97.7	79 - 124		
Styrene	100-42-5	LCS	22.1		20	111	79 - 123		
Tetrachloroethene	127-18-4	LCS	16.8		20	84	72 - 124		
Toluene	108-88-3	LCS	19.9		20	99.4	80 - 125		
Total Xylenes	1330-20-7	LCS	59.7		60	99.5	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.1		20	105	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	17.9		20	89.3	78 - 126		
Trichloroethene	79-01-6	LCS	19.4		20	96.9	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	22.4		20	112	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.5		20	108	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.8	30	99.3	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	28.2	30	93.9	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	28.4	30	94.8	78 - 116	
Toluene-d8	2037-26-5	LCS	28.9	30	96.3	76 - 127	

QC Batch

QC Batch	1350876	Prep Method	SW846 5035A
Date	12/04/2024 13:24	Analysis Method	SW846 8260D
Tech.	JTH		

Associated Samples

3389099003

Method Blank 3913452 (MB) Created on 12/04/2024 13:24 For QC Batch 1350876

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	50.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	50.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	50.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	100	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	100	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/kg	100	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	50.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	350	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	50.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	100	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	50.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/kg	50.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	50.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	50.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	500	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	250	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	250	ND
Acetone	67-64-1	BLK	ND	ug/kg	500	ND
Benzene	71-43-2	BLK	ND	ug/kg	50.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	50.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	50.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	50.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	50.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	50.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	50.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	50.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	50.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	50.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	50.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	50.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	50.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	50.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	50.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	50.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	50.0	ND
Freon 113	76-13-1	BLK	ND	ug/kg	50.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	50.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	100	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	50.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	50.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	50.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/kg	100	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	50.0	ND
Styrene	100-42-5	BLK	ND	ug/kg	50.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	50.0	ND
Toluene	108-88-3	BLK	ND	ug/kg	50.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	150	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	50.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	50.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	50.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	50.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	1510	1500	100	71 - 146	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
4-Bromofluorobenzene	460-00-4	BLK	1470	1500	98	46 - 138	
Dibromofluoromethane	1868-53-7	BLK	1380	1500	92.2	42 - 143	
Toluene-d8	2037-26-5	BLK	1490	1500	99.1	54 - 141	

Lab Control Standard 3913453 (LCS) Created on 12/04/2024 13:24 For QC Batch 1350876

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	974		1000	97.4	69 - 136		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	1070		1000	107	69 - 125		
1,1,2-Trichloroethane	79-00-5	LCS	1030		1000	103	70 - 128		
1,1-Dichloroethane	75-34-3	LCS	931		1000	93.1	68 - 137		
1,1-Dichloroethene	75-35-4	LCS	880		1000	88	62 - 135		
1,2,3-Trichlorobenzene	87-61-6	LCS	1020		1000	102	41 - 143		
1,2,3-Trichloropropane	96-18-4	LCS	1030		1000	103	63 - 133		
1,2,4-Trichlorobenzene	120-82-1	LCS	1110		1000	111	61 - 134		
1,2,4-Trimethylbenzene	95-63-6	LCS	1100		1000	110	75 - 134		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	1050		1000	105	37 - 131		
1,2-Dibromoethane	106-93-4	LCS	1000		1000	100	69 - 130		
1,2-Dichlorobenzene	95-50-1	LCS	1030		1000	103	73 - 127		
1,2-Dichloroethane	107-06-2	LCS	938		1000	93.8	62 - 139		
1,2-Dichloroethene, Total	540-59-0	LCS	1910		2000	95.7	68 - 137		
1,2-Dichloropropane	78-87-5	LCS	984		1000	98.4	77 - 133		
1,3,5-Trimethylbenzene	108-67-8	LCS	1090		1000	109	74 - 137		
1,3-Dichlorobenzene	541-73-1	LCS	1030		1000	103	73 - 130		
1,4-Dichlorobenzene	106-46-7	LCS	1030		1000	103	74 - 127		
2-Butanone	78-93-3	LCS	4120		5000	82.4	51 - 151		
2-Hexanone	591-78-6	LCS	4840		5000	96.8	66 - 133		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	4600		5000	92.1	70 - 130		
Acetone	67-64-1	LCS	4710		5000	94.2	42 - 154		
Benzene	71-43-2	LCS	927		1000	92.7	77 - 134		
Bromochloromethane	74-97-5	LCS	995		1000	99.5	70 - 124		
Bromodichloromethane	75-27-4	LCS	1040		1000	104	73 - 133		
Bromoform	75-25-2	LCS	862		1000	86.2	62 - 118		
Bromomethane	74-83-9	LCS	831		1000	83.1	41 - 143		
Carbon Disulfide	75-15-0	LCS	732		1000	73.2	48 - 145		
Carbon Tetrachloride	56-23-5	LCS	829		1000	82.9	64 - 139		
Chlorobenzene	108-90-7	LCS	965		1000	96.5	76 - 130		
Chlorodibromomethane	124-48-1	LCS	998		1000	99.8	69 - 122		
Chloroethane	75-00-3	LCS	972		1000	97.2	14 - 152		
Chloroform	67-66-3	LCS	982		1000	98.2	75 - 127		
Chloromethane	74-87-3	LCS	1040		1000	104	31 - 167		
cis-1,2-Dichloroethene	156-59-2	LCS	980		1000	98	68 - 137		
cis-1,3-Dichloropropene	10061-01-5	LCS	975		1000	97.5	70 - 129		
Cyclohexane	110-82-7	LCS	915		1000	91.5	63 - 151		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCS	1030		1000	103	10 - 180		
Ethylbenzene	100-41-4	LCS	975		1000	97.5	76 - 136		
Freon 113	76-13-1	LCS	822		1000	82.2	42 - 109		
Isopropylbenzene	98-82-8	LCS	1190		1000	119	72 - 137		
Methyl acetate	79-20-9	LCS	983		1000	98.3	70 - 130		
Methyl cyclohexane	108-87-2	LCS	928		1000	92.8	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	982		1000	98.2	65 - 120		
Methylene Chloride	75-09-2	LCS	902		1000	90.2	73 - 129		
mp-Xylene	108383/106423	LCS	1980		2000	98.8	75 - 137		
o-Xylene	95-47-6	LCS	987		1000	98.7	74 - 135		
Styrene	100-42-5	LCS	1090		1000	109	72 - 134		
Tetrachloroethene	127-18-4	LCS	975		1000	97.5	73 - 134		
Toluene	108-88-3	LCS	985		1000	98.5	73 - 134		
Total Xylenes	1330-20-7	LCS	2960		3000	98.7	75 - 136		
trans-1,2-Dichloroethene	156-60-5	LCS	935		1000	93.5	69 - 130		
trans-1,3-Dichloropropene	10061-02-6	LCS	876		1000	87.6	67 - 129		
Trichloroethene	79-01-6	LCS	908		1000	90.8	77 - 134		
Trichlorofluoromethane	75-69-4	LCS	1030		1000	103	27 - 121		
Vinyl Chloride	75-01-4	LCS	999		1000	99.9	5 - 200		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	1490	1500	99.2	71 - 146	
4-Bromofluorobenzene	460-00-4	LCS	1450	1500	96.7	46 - 138	
Dibromofluoromethane	1868-53-7	LCS	1420	1500	94.5	42 - 143	
Toluene-d8	2037-26-5	LCS	1470	1500	98.3	54 - 141	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1338091	Prep Method	N/A
Date	N/A	Analysis Method	SW846 1030
Tech.			

Associated Samples

3389099003

Duplicate 3909243 (DUP) 3388303001 (non-Project Sample) For QC Batch 1338091

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Qualifiers
Ignitability	IGN	DUP	

Duplicate 3909244 (DUP) 3388367001 (non-Project Sample) For QC Batch 1338091

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Qualifiers
Ignitability	IGN	DUP	

QC Batch

QC Batch	1338213	Prep Method	N/A
Date	N/A	Analysis Method	S2540G-15
Tech.			

Associated Samples

3389099003

Duplicate 3909338 (DUP) 3383208001 (non-Project Sample) For QC Batch 1338213

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	97.7864	97.7935	RPD 0.0070 (Max-10)	
Total Solids	TSP	DUP	2.2135	2.2064	RPD 0.32 (Max-5)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3909339 (DUP) 3389070001 (non-Project Sample) For QC Batch 1338213

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	97.2997	97.5758	RPD 0.28 (Max-10)	
Total Solids	TSP	DUP	2.7002	2.4241	RPD 10.80* (Max-5)	

QC Batch

QC Batch	1338610	Prep Method	N/A
Date	N/A	Analysis Method	SW-846 1010B
Tech.			

Associated Samples

3389099004

Duplicate 3909510 (DUP) 3388414001 (non-Project Sample) For QC Batch 1338610

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (Deg. F)	Orig. Result (Deg. F)	Qualifiers
Flashpoint/Ignitability	FP-IGN	DUP			

Duplicate 3909511 (DUP) 3389053001 (non-Project Sample) For QC Batch 1338610

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (Deg. F)	Orig. Result (Deg. F)	Qualifiers
Flashpoint/Ignitability	FP-IGN	DUP			

FLASH POINT LCS 3909509 (FPLCS) Created on 11/23/2024 13:45 For QC Batch 1338610

RESULTS

Compound	CAS No		Result (Deg. F)	Orig. Result (Deg. F)	Spk Added (Deg. F)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Flashpoint/Ignitability	FP-IGN	LCS	81		81	100	97.5310 - 102.4690		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1342490	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9095B
Tech.			

Associated Samples

3389099003 3389099004

Duplicate 3910321 (DUP) 3388844001 (non-Project Sample) For QC Batch 1342490

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Qualifiers
Free Liquids	FREELIQ	DUP	

QC Batch

QC Batch	1345889	Prep Method	SW-846 7.3CN
Date	11/27/2024 11:24	Analysis Method	SW-846 7.3CN
Tech.	KMV		

Associated Samples

3389099003 3389099004

Duplicate 3911043 (DUP) 3388844001 (non-Project Sample) For QC Batch 1345889

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)				Qualifiers
Cyanide, Reactive	CNREACT	DUP	0	0	RPD	0	(Max-20)	ND

Method Blank 3911041 (MB) Created on 11/27/2024 10:40 For QC Batch 1345889

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Cyanide, Reactive	CNREACT	BLK	ND	mg/kg	10.0	ND

Lab Control Standard 3911042 (LCS) Created on 11/27/2024 10:40 For QC Batch 1345889

RESULTS

Compound	CAS No	Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cyanide, Reactive	CNREACT	LCS	1.2		5	23.2	1 - 92		J

QC Batch

QC Batch	1345890	Prep Method	SW846 7.3
Date	11/27/2024 11:24	Analysis Method	SW846 7.3
Tech.	KMV		

Associated Samples

3389099003 3389099004

Duplicate 3911046 (DUP) 3388844001 (non-Project Sample) For QC Batch 1345890

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)		Qualifiers
Sulfide, Reactive	SO2REACT	DUP	5.1974	6.0120	RPD 14.50 (Max-20)	J

Method Blank 3911044 (MB) Created on 11/27/2024 10:40 For QC Batch 1345890

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfide, Reactive	SO2REACT	BLK	5.6J	mg/kg	6.3	J

Lab Control Standard 3911045 (LCS) Created on 11/27/2024 10:40 For QC Batch 1345890

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfide, Reactive	SO2REACT	LCS	362		285	127	49 - 148		

QC Batch

QC Batch	1345959	Prep Method	N/A
Date	N/A	Analysis Method	S2540G-15
Tech.			

Associated Samples

3389099003

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3911287 (DUP) 3389371001 (non-Project Sample) For QC Batch 1345959

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Solids, Total Volatile	VTS_S	DUP	81.1370	81.2610	RPD	0.15 (Max-5)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3389099003	IDW-S	N/A	N/A	N/A		SW846 9095B	1342490
		SW846 3015A	1340188	11/26/2024 01:38	ANN	SW846 6010C	1342391
		SW846 7470A	1348915	12/02/2024 10:06	AXW	SW846 7470A	1349008
		SW846 3546	1339884	11/26/2024 13:45	GED	SW846 8082A	1344901
		SW846 3546	1338201	11/24/2024 19:55	J1H	SW846 8270E	1339795
		SW846 3510C	1345189	11/26/2024 22:00	J1H	SW846 8270E	1345947
		SW846 3546	1338201	11/24/2024 19:55	J1H	SW846 8270E	1345964
		N/A	N/A	N/A		SW846 8260D	1348205
		SW846 5035A	1350876	11/21/2024 16:45	JTH	SW846 8260D	1350878
		N/A	N/A	N/A		S2540G-15	1338213
		N/A	N/A	N/A		S2540G-15	1345959
		N/A	N/A	N/A		S2710F-09	1341889
		N/A	N/A	N/A		SW846 1030	1338091
		SW846 7.3	1345890	11/27/2024 11:24	KMV	SW846 7.3	1345953
		SW-846 7.3CN	1345889	11/27/2024 11:24	KMV	SW-846 7.3CN	1347489
		N/A	N/A	N/A		SW846 9045D	1343189
3389099004	IDW-W	N/A	N/A	N/A		SW846 9095B	1342490
		SW846 3015A	1340185	11/28/2024 01:45	ANN	SW846 6010C	1351152
		SW846 3015A	1340185	11/28/2024 01:45	ANN	SW846 6010C	1351313
		SW846 7470A	1348909	12/02/2024 10:06	AXW	SW846 7470A	1349007
		SW846 3511	1344598	11/26/2024 19:55	BMP	SW846 8082A	1344902
		SW846 3510C	1345189	11/26/2024 22:00	J1H	SW846 8270E	1345947
		SW846 3510C	1345189	11/26/2024 22:00	J1H	SW846 8270E	1347094
		N/A	N/A	N/A		SW846 8260D	1345806
		N/A	N/A	N/A		SW846 8260D	1348188
		N/A	N/A	N/A		SW-846 1010B	1338610
		SW846 7.3	1345890	11/27/2024 11:24	KMV	SW846 7.3	1345953
		SW-846 7.3CN	1345889	11/27/2024 11:24	KMV	SW-846 7.3CN	1347489
		N/A	N/A	N/A		SW846 9040C	1345940

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3391171 Logged By: CXW PM: EXP

ALS Quote #

1 of

Client Name: Michael Baker Intl.

Address: 100 Airside Drive Moon Twp, PA

Contact: C. Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

Temp Taken By: MJE Therm ID: 569 WO Temp (°C) S:3 W:2

Receipt Info corr Y N NA

Cooler Custo Temp By: MJE WO Temp (°C) S:3 W:2 Therm ID 569 s? NO YES

Sample Custo ES, list below

Received on I

Coolers & Sa

Correct Conta

Sample Label

Adequate Sa

VOA only: Tri

NJ ≤ 4 days'

Courier/Trackin

Receipt Info Completed By: MJE
Cooler Custody Seal Intact Y N (NA)
Sample Custody Seal Intact Y N (NA)
Received on Ice (Y) N NA
Cooler & Samples Intact (Y) N
Correct Containers Provided (Y) N
Sample Label/COC Agree (Y) N
Adequate Sample Volumes (Y) N
CR6 Samples Filtered Y N (NA)
OP Samples Filtered Y N (NA)
VOA Trip Blank (Y) N NA
NJ≤ 4 Days? Y (N)
Rad Screen (uCi) —
Courier/Tracking #: 282113301507
SDWA Compliance Y (N)
PWSID
WV Containers 0-6°C Y N (NA)
PWS Contact: *No Sampler-MJE 11/22/24

nt contact:

Sample(s) for uCi)

Reportable SI Y N

SDWA State ontact:

PWSID #

PWS Contact: PWS Phone #:

	Container Type	TCK	G	G	G	G	P	G			
	Container Size	3 40 ml	8 oz	16 oz	500 ml	3 40 ml	125 ml	1L			
	Preservative	meoh + DI	UN	UN MJE 11/22/24	UN	HCl	H_2SO_4	UN	MJE 11/22/24		

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260D	SVOCs 8270E	Total metals + Hg 6010D/7471B	SVOC/MET/ TCLP TVSI SGRA PCBs	RIC/PF	PCBs				
1	MW-45-10	11/21/24	1350		G	S	X	X	X		MJE 11/22/24					
2	TB-7	—	—		—	—	X									
3	IDW-S	11/2/24	1645		G	S	X			X	X					
4	IDW-W	↓	1700		G	GW	X	X	X			X	X			
5																
6																
7																
8																
9																
10																

Enter Number of Containers Per Sample or Field Results Below.

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Sample MW-45-10 is considered "Hot"

IDW-W-Limited Volume

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11/21/24	1800	1	Dave Gavinski / MBI	2	Fedex
11/22/24	907	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] ____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

282113301507

ATTACHMENT C

Test Boring and Well Construction Records

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT:	Erie Coke Works Supplemental Investigation			
PROJ. NO.:	188511		BORING NO.:	MW-39
COORDINATES:	EAST:	1,337,121.943	NORTH:	731,139.945
ELEVATION:	SURFACE:	580.17	TOP OF PVC CASING:	579.86

Rig: Mini Sonic Track Rig	**Split Spoon**	**Casing**	**Augers**	**Core Barrel**	**Date**	**Progress (Ft.)**	**Weather**	**Depth to Water (Ft.)**
Size (ID)				6"	11/20/2024	0.0-20.0	Cloudy then Sun, 50s-60s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Direct Push P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
Schedule 40 PVC Riser	2"	0.0	9.0
Schedule 40 PVC - 0.01" Slot Screen	2"	9.0	19.0

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description (Ft.)	Well Installation Detail	Elevation (Ft. MSL)
1				0.2	SILTY SAND, SLAG and COARSE ROUNDED GRAVEL; brown, gray; damp — 0.8	Concrete; Top of Bentonite at 1'	
2				0.0	CLAYEY SILT, little fine sand, trace rock fragments; light gray, light brown; damp		
3				0.0		2" PVC Riser	
4				0.1			
5	C-1	10.0		0.3		Bentonite	
6				0.0			
7				1.2		Top of Sand at 7'	
8				0.0	8.0	Top of 2" PVC Screen at 9'	
9				0.2	SILT, SAND and SLAG FRAGMENTS; dark gray; wet — 9.5		
10	10.0			0.3	SILT and FINE SAND, little organics (Native); dark gray; moist to wet	Sand	
		C-2					

DRILLING CO.:	Cascade Drilling	BAKER REP.:	Dave Gaviglia
DRILLER:	Jeff Niswander	BORING NO.:	MW-39 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Erie Coke Works Supplemental Investigation
PROJ. NO.: 188511 BORING NO.: MW-39

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description (Ft.)	Well Installation Detail	Elevation (Ft. MSL)
11				0.0	SILT and FINE SAND, little organics (Native); dark gray; moist to wet		
12				0.0	12.3		
13				0.0	SILTY FINE to MEDIUM SAND; light gray; wet	2" PVC Screen	
14				0.0			
15		C-2	10.0	0.0		Sand	
16				0.0			
17				0.0			
18				0.0	*Attempted to set well at 17'. Screen dropped to 19' and could not be pulled up.	Bottom of 2" PVC Screen at 19'	
19				0.0			
20	20.0			0.0	20.0	Heaving Sands	
					End of Boring at 20.0'		
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: MW-39 SHEET 2 OF 2

Baker

Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT:	Erie Coke Works Supplemental Investigation				
PROJ. NO.:	188511		BORING NO.:	MW-40	
COORDINATES:	EAST:	1,337,202.781	NORTH:	731,030.582	
ELEVATION:	SURFACE:	580.75	TOP OF PVC CASING:	580.31	

Rig: Mini Sonic Track Rig	**Split Spoon**	**Casing**	**Augers**	**Core Barrel**	**Date**	**Progress (Ft.)**	**Weather**	**Depth to Water (Ft.)**
Size (ID)				6"	11/20/2024	0.0-18.0	Cloudy then Sun, 50s-60s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Direct Push P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
Schedule 40 PVC Riser	2"	0.0	8.0
Schedule 40 PVC - 0.01" Slot Screen	2"	8.0	18.0

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description (Ft.)	Well Installation Detail	Elevation (Ft. MSL)
1				0.3	SILTY SAND and SLAG; gray; damp 0.5	Concrete	
2				0.4	CLAYEY SILT, little fine sand, trace rock fragments and coarse rounded gravel; light gray, light brown; damp	Top of Bentonite at 1'	
3				0.3		2" PVC Riser	
4				0.1			
5	C-1	10.0		1.2		Bentonite	
6				3.2		Top of Sand at 6'	
7				5.2		Top of 2" PVC Screen at 8'	
8				5.6	8.5		
9			(8-9)	57.0	SLAG, SILT and COKE FRAGMENTS with COKE/COAL BREEZE, some cloth material; dark gray, black; odor; wet at 9'; tarry material (Coal Tar) from 8.8-9.4'	Sand	
10	10.0	C-2		54.1		2" PVC Screen	

DRILLING CO.:	Cascade Drilling	BAKER REP.:	Dave Gaviglia
DRILLER:	Jeff Niswander	BORING NO.:	MW-40 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Erie Coke Works Supplemental Investigation
PROJ. NO.: 188511 BORING NO.: MW-40

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description (Ft.)	Well Installation Detail	Elevation (Ft. MSL)
11				10.0	SLAG, SILT and COKE FRAGMENTS with COKE/COAL BREEZE, some cloth		
12				1.4	material; dk. gray, black; odor; wet 12.0	2" PVC Screen	
13				0.6	SILT and FINE SAND with ORGANICS (Native); dark gray, black; moist to wet 13.2		
14		C-2	8.0	0.4	SILTY FINE to MEDIUM SAND, trace coarse subrounded gravel; light gray; wet		
15				0.4		Sand	
16				0.4			
17				0.4		Bottom of 2" PVC Screen at 18'	
18	18.0			0.4	18.0		
					End of Boring at 18.0'		
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: MW-40 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT:	Erie Coke Works Supplemental Investigation			
PROJ. NO.:	188511		BORING NO.:	MW-41
COORDINATES:	EAST:	1,337,305.757	NORTH:	730,853.376
ELEVATION:	SURFACE:	581.48	TOP OF PVC CASING:	581.04

Rig: Mini Sonic Track Rig	**Split Spoon**	**Casing**	**Augers**	**Core Barrel**	**Date**	**Progress (Ft.)**	**Weather**	**Depth to Water (Ft.)**
Size (ID)				6"	11/20/2024	0.0-20.0	Cloudy then Sun, 50s-60s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Direct Push P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
Schedule 40 PVC Riser	2"	0.0	6.0
Schedule 40 PVC - 0.01" Slot Screen	2"	6.0	16.0

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description	(Ft.)	Well Installation Detail	Elevation (Ft. MSL)
1					SILT, SAND and ROCK FRAGMENTS; light brown; damp		Concrete; Top of Bentonite at 1'	
2				1.0				
3				5.2			2" PVC Riser; Bentonite	
						3.5		
4				2.3	CLAYEY SILT with COARSE GRAVEL, little sand; light brown, light gray; damp		Top of Sand at 4'	
5	C-1	8.0		22.7		5.0		
6				17.4	SANDY SILT with COKE and SLAG FRAGMENTS, wood fragments throughout; gray; damp to moist		Top of 2" PVC Screen at 6'	
7				36.0				
8			(7-8)	227.0	Metal fragments from 7-7.5'; Slight Tarry Material from 7-11'; Wet at 8'		Sand	
9				296.0				
10				290.0			2" PVC Screen	
10.0	C-2							

DRILLING CO.:	Cascade Drilling	BAKER REP.:	Dave Gaviglia
DRILLER:	Jeff Niswander	BORING NO.:	MW-41 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Erie Coke Works Supplemental Investigation
PROJ. NO.: 188511 BORING NO.: MW-41

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description (Ft.)	Well Installation Detail	Elevation (Ft. MSL)
11				41.8	SANDY SILT with COKE and SLAG FRAGMENTS, wood frags. throughout;	Sand	
12				24.0	gray; wet; slight tarry mat. (7-11') 12.3		
13				5.3	SILT and FINE SAND, little organics (Native); dark gray; moist to wet	2" PVC Screen	
14				2.7			
15	C-2	10.0		0.0	15.0	Bottom of 2" PVC Screen at 16'	
16				0.0	SILTY FINE to MEDIUM SAND; light gray; wet		
17				0.0			
18				0.0	*Heaving Sands prevented the attempt to set well at 17'	Heaving Sands	
19				0.8			
20	20.0			0.8	20.0		
21					End of Boring at 20.0'		
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: MW-41 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT:	Erie Coke Works Supplemental Investigation			
PROJ. NO.:	188511		BORING NO.:	MW-42
COORDINATES:	EAST:	1,337,735.458	NORTH:	730,270.475
ELEVATION:	SURFACE:	579.81	TOP OF PVC CASING:	579.41

Rig: Mini Sonic Track Rig	**Split Spoon**	**Casing**	**Augers**	**Core Barrel**	**Date**	**Progress (Ft.)**	**Weather**	**Depth to Water (Ft.)**
Size (ID)				6"	11/19/2024	0.0-20.0	Cloudy, Rain, 40s-50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Direct Push P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
Schedule 40 PVC Riser	2"	0.0	6.0
Schedule 40 PVC - 0.01" Slot Screen	2"	6.0	16.0

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description (Ft.)	Well Installation Detail	Elevation (Ft. MSL)
1	C-1	3.5		0.0	SILTY SAND and ROCK FRAGMENTS, trace coke fragments; brown, gray; dry-damp 1.0	Concrete; Top of Bentonite at 1'; 2" PVC Riser; Top of Sand at 4'; Top of 2" PVC Screen at 6'	
2				0.0	SILTY SAND and BRICK FRAGMENTS; brown, reddish-brown and tan; damp		
3				0.0			
4				0.0			
5				0.0			
6				0.4	6.0		
7	C-2	4.8		0.6	SILTY SAND, ROCK, SLAG, and BRICK FRAGMENTS; brown and gray; moist at 7'		
8				1.6	Wet at 8' 8.0	Sand	
9				0.0	SILTY SAND and SLAG, some coke/coal breeze; brown, gray; wet		
10				0.0		2" PVC Screen	
	C-3						

DRILLING CO.:	Cascade Drilling	BAKER REP.:	Dave Gaviglia
DRILLER:	Jeff Niswander	BORING NO.:	MW-42 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Erie Coke Works Supplemental Investigation
PROJ. NO.: 188511 BORING NO.: MW-42

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description (Ft.)	Well Installation Detail	Elevation (Ft. MSL)
11				0.0	SILTY SAND and SLAG, some coke/coal breeze; brown, gray; wet 11.3		
12				0.0	SILT and FINE SAND with ORGANICS, slight odor and glossy appearance; gray, black; saturated 12.5	2" PVC Screen	
13				0.0	SILTY FINE to MEDIUM SAND, trace rounded coarse gravel; light gray; wet	Sand	
14				0.0			
15		C-3	9.7	0.0		Bottom of 2" PVC Screen at 16'	
16				0.0			
17				0.0	*Heaving Sands prevented the attempt to set well at 17'		
18				0.0		Heaving Sands	
19				0.0			
20	20.0			0.0	20.0		
					End of Boring at 20.0'		
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: MW-42 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT:	Erie Coke Works Supplemental Investigation			
PROJ. NO.:	188511		BORING NO.:	MW-43
COORDINATES:	EAST:	1,337,634.667	NORTH:	730,593.102
ELEVATION:	SURFACE:	582.05	TOP OF PVC CASING:	581.61

Rig: Mini Sonic Track Rig	**Split Spoon**	**Casing**	**Augers**	**Core Barrel**	**Date**	**Progress (Ft.)**	**Weather**	**Depth to Water (Ft.)**
Size (ID)				6"	11/19/2024	0.0-20.0	Cloudy, Rain, 40s-50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Direct Push P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
Schedule 40 PVC Riser	2"	0.0	8.0
Schedule 40 PVC - 0.01" Slot Screen	2"	8.0	18.0

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description	(Ft.)	Well Installation Detail	Elevation (Ft. MSL)
1					CLAYEY SILT, trace to little sand and and fine to coarse rounded gravel; light gray, light brown; damp		Concrete; Top of Bentonite at 1'	
2								
3								
4							2" PVC Riser	
5		C-1	4.8					
6				0.0			Top of Sand at 6'	
7				0.0			Top of 2" PVC Screen at 8'	
8				0.0				
9				0.0	Wet at 9'		Sand	
						9.5		
10	10.0			0.0	SILTY SAND with ROCK FRAGS. and FINE to	10.0	2" PVC	
		C-2			COARSE ROUNDED GRAVEL; gray; wet		Screen	

DRILLING CO.:	Cascade Drilling	BAKER REP.:	Dave Gaviglia
DRILLER:	Jeff Niswander	BORING NO.:	MW-43 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Erie Coke Works Supplemental Investigation
PROJ. NO.: 188511 BORING NO.: MW-43

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description (Ft.)	Well Installation Detail	Elevation (Ft. MSL)
11				0.0	SILT and FINE SAND with ORGANICS (Native); gray; moist to wet		
12				0.0		2" PVC Screen	
13				0.0	13.2		
14				0.0	SILTY FINE to MEDIUM SAND; light gray; wet		
15	C-2	10.0		0.0		Sand	
16				0.0			
17				0.0		Bottom of 2" PVC Screen at 18'	
18				0.0			
19				0.0		Heaving Sands	
20	20.0			0.0	20.0		
21					End of Boring at 20.0'		
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: MW-43 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT:	Erie Coke Works Supplemental Investigation			
PROJ. NO.:	188511		BORING NO.:	MW-44
COORDINATES:	EAST:	1,337,294.509	NORTH:	731,074.586
ELEVATION:	SURFACE:	580.99	TOP OF PVC CASING:	580.67

Rig: Mini Sonic Track Rig	**Split Spoon**	**Casing**	**Augers**	**Core Barrel**	**Date**	**Progress (Ft.)**	**Weather**	**Depth to Water (Ft.)**
Size (ID)				6"	11/19/2024	0.0-20.0	Cloudy, Rain, 40s-50s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Direct Push P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
Schedule 40 PVC Riser	2"	0.0	5.7
Schedule 40 PVC - 0.01" Slot Screen	2"	5.7	15.7

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description	(Ft.)	Well Installation Detail	Elevation (Ft. MSL)
1					SILTY SAND, SLAG and BRICK FRAGMENTS; gray, brown; damp		Concrete; Top of Bentonite at 1'	
2								
3				0.0			2" PVC Riser; Bentonite	
4				0.0		4.0	Top of Sand at 4'	
5	C-1	7.4		0.0	CLAYEY SILT, little to trace sand and rock fragments; light gray, light brown; damp		Top of 2" PVC Screen at 5.7'	
6				0.0				
7				0.0			Sand	
8				0.0				
9				0.0		9.0	2" PVC Screen	
10	10.0			0.0	SILT and SAND with SLAG and ROCK FRAGMENTS, trace to little organics; dark gray; damp, wet at 10'	10.5		
	C-2							

DRILLING CO.:	Cascade Drilling	BAKER REP.:	Dave Gaviglia
DRILLER:	Jeff Niswander	BORING NO.:	MW-44 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Erie Coke Works Supplemental Investigation
PROJ. NO.: 188511 BORING NO.: MW-44

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description (Ft.)	Well Installation Detail	Elevation (Ft. MSL)
11				0.0	SILT and FINE SAND, little to some organics (Native); gray; moist to wet	2" PVC Screen	
12				0.0			
					12.5		
13				0.0	SILTY FINE to MEDIUM SAND; light gray; wet	Sand	
14				0.0			
15	C-2	10.0		0.0		Bottom of 2" PVC Screen at 15.7'	
16				0.0			
17				0.0			
18				0.0	*Heaving Sands prevented the attempt to set well at 18'	Heaving Sands	
19				0.0			
20	20.0			0.0	20.0		
					End of Boring at 20.0'		
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: MW-44 SHEET 2 OF 2

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT:	Erie Coke Works Supplemental Investigation			
PROJ. NO.:	188511		BORING NO.:	MW-45
COORDINATES:	EAST:	1,338,203.205	NORTH:	729,696.534
ELEVATION:	SURFACE:	580.55	TOP OF PVC CASING:	583.28

Rig: Mini Sonic Track Rig	**Split Spoon**	**Casing**	**Augers**	**Core Barrel**	**Date**	**Progress (Ft.)**	**Weather**	**Depth to Water (Ft.)**
Size (ID)				6"	11/21/2024	0.0-20.0	Cloudy, 30s-40s	---
Length				5'				
Type				Steel				
Hammer Wt.				---				
Fall				---				

Remarks:

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Direct Push P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
Schedule 40 PVC Riser	2"	3.0	7.0
Schedule 40 PVC - 0.01" Slot Screen	2"	7.0	17.0

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description (Ft.)	Well Installation Detail	Elevation (Ft. MSL)
1					SILTY SAND, COKE and SLAG FRAGMENTS with COKE/COAL BREEZE; dark gray, brown; dry to damp	Concrete; Top of Bentonite at 1'	
2							
3				0.0		2" PVC Riser; Bentonite	
4				0.0			
5	C-1	7.3		9.2		Top of Sand at 5'	
6				56.6			
7				391.0		Top of 2" PVC Screen at 7'	
8				1768.0			
9				1181.0		Sand	
10	10.0		(9-10)	581.0	little wood fragments and white powder material from 9-10'; wet at 10'		
	C-2					2" PVC Screen	

DRILLING CO.:	Cascade Drilling	BAKER REP.:	Dave Gaviglia
DRILLER:	Jeff Niswander	BORING NO.:	MW-45 SHEET 1 OF 2

Baker
Michael Baker International

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Erie Coke Works Supplemental Investigation
PROJ. NO.: 188511 BORING NO.: MW-45

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.)	Sample Interval (Ft.)	PID (ppm)	Visual Description (Ft.)	Well Installation Detail	Elevation (Ft. MSL)
11				4.8	SILTY SAND, COKE and SLAG FRAGMENTS with COKE/COAL BREEZE;		
12				2.7	dark gray, brown; wet 12.0	2" PVC Screen	
13				1.1	SILTY FINE to MEDIUM SAND (Native); light gray to gray; wet		
14				0.3		Sand	
15		C-2	10.0	9.3			
16				37.0		Bottom of 2" PVC Screen at 17'	
17				64.0			
18				4.9	*Heaving Sands prevented the attempt to set well at 19'	Heaving Sands	
19				38.0			
20	20.0			11.1	20.0		
					End of Boring at 20.0'		
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Cascade Drilling BAKER REP.: Dave Gaviglia
DRILLER: Jeff Niswander BORING NO.: MW-45 SHEET 2 OF 2

ATTACHMENT D

Laboratory Analytical Reports - Groundwater

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke Works 188511-3020
Workorder 3391293
Report ID 380046 on 1/9/2025 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 10, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3391293001	MW-39	Ground Water	12/09/2024 12:00	12/10/2024 09:02	CBC	Collected By Client
3391293002	MW-40	Ground Water	12/09/2024 13:40	12/10/2024 09:02	CBC	Collected By Client
3391293003	MW-40-DUP	Ground Water	12/09/2024 13:45	12/10/2024 09:02	CBC	Collected By Client
3391293004	MW-41	Ground Water	12/09/2024 12:42	12/10/2024 09:02	CBC	Collected By Client
3391293005	MW-43	Ground Water	12/09/2024 11:40	12/10/2024 09:02	CBC	Collected By Client
3391293006	MW-44	Ground Water	12/09/2024 15:45	12/10/2024 09:02	CBC	Collected By Client
3391293007	TB-40	Ground Water	12/09/2024 00:00	12/10/2024 09:02	CBC	Collected By Client
3391293008	MW-22D	Ground Water	12/09/2024 16:45	12/10/2024 09:02	CBC	Collected By Client
3391293009	MW-22S	Ground Water	12/09/2024 16:45	12/10/2024 09:02	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
E	Result reported exceeds instrument calibration
1	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 26.2 and the control limits were 41 to 145. This result was reported at a dilution of 1.
2	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Di-n-Octylphthalate. The % Recovery was reported as 122 and the control limits were 80 to 120.
3	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
4	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
5	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
6	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 35.7 and the control limits were 41 to 145. This result was reported at a dilution of 1.
7	The surrogate 2-Fluorophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 10 to 85. This result was reported at a dilution of 50.
8	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 41 to 145. This result was reported at a dilution of 50.
9	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 27.5 and the control limits were 41 to 145. This result was reported at a dilution of 1.
10	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
11	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 32.1 and the control limits were 41 to 145. This result was reported at a dilution of 1.
12	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 34.8 and the control limits were 41 to 145. This result was reported at a dilution of 1.

Detected Results Summary

Client Sample ID	MW-39	Collected	12/09/2024 12:00
Lab Sample ID	3391293001	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.65	mg/L	0.11	0.036	SW846 6010C	#
Antimony, Total	0.012J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.062	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.043	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.26	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.29	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	163	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	131	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0059	mg/L	0.0056	0.0020	SW846 6010C	#
Cobalt, Total	0.0040J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0059J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	21.0	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	23.3	mg/L	0.067	0.022	SW846 6010C	#
Lead, Total	0.0030J	mg/L	0.0067	0.0022	SW846 6010C	#
Magnesium, Dissolved	55.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	56.2	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.6	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.5	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	44.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	49.8	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	155	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	123	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	1.3J	ug/L	3.0	0.50	SW846 8270E	#
Acenaphthene	3.1	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	0.94J	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	3.8	ug/L	3.0	0.90	SW846 8270E	#
Anthracene	0.62J	ug/L	1.5	0.25	SW846 8270E	#
Carbazole	2.7J	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	1.3J	ug/L	3.0	0.25	SW846 8270E	#
Di-n-Butylphthalate	1.1J	ug/L	3.0	0.37	SW846 8270E	#
Fluoranthene	0.54J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	3.4	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	7.6	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	4.2	ug/L	1.5	0.25	SW846 8270E	#
Pyrene	0.30J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	9.5	ug/L	1.0	0.23	SW846 8260D	#
o-Xylene	0.54J	ug/L	1.0	0.33	SW846 8260D	#
Toluene	0.26J	ug/L	1.0	0.23	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	8	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	748	mg/L	50	50	SM2320B-2011	#
Chloride	143	mg/L	5.0	2.2	SW846 9056A	#
pH	8.13	pH_Units			S4500HB-11	#

Detected Results Summary

Sample - MW-39 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Specific Conductance	1740	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	40.7	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	878	mg/L	25	25	SM2540C-15	#
Turbidity	230	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-40	Collected	12/09/2024 13:40
Lab Sample ID	3391293002	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.043J	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.0040J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.21	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.21	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	138	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	132	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0064	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0074	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	10.5	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	10.6	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	118	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	117	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.2	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.2	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	51.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	50.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	82.8	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	81.7	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	116	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	81.5	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	41.4	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	83.3	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	12.2	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	0.72J	ug/L	1.5	0.28	SW846 8270E	#
Biphenyl	11.6	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	92.3	ug/L	3.0	0.25	SW846 8270E	#
Chrysene	0.37J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	47.3	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	15.6	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	71.1	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	136	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	2120	ug/L	30.0	13.0	SW846 8270E	#
o-Cresol	150	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	95.9	ug/L	1.5	0.25	SW846 8270E	#
Phenol	84.2	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	9.3	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	18.0J	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	10.4J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	1510	ug/L	50.0	11.5	SW846 8260D	#
mp-Xylene	41.8J	ug/L	100	26.0	SW846 8260D	#
o-Xylene	19.1J	ug/L	50.0	16.5	SW846 8260D	#
Styrene	13.4J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	95.6	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	60.9J	ug/L	150	33.0	SW846 8260D	#

Detected Results Summary

Sample - MW-40 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Acidity, Total	5	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	1230	mg/L	50	50	SM2320B-2011	#
Chloride	69.3	mg/L	5.0	2.2	SW846 9056A	#
pH	8.05	pH_Units			S4500HB-11	#
Specific Conductance	1810	umhos/cm	50	1	SW846 9050A	#
Sulfate	34.4	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1090	mg/L	25	25	SM2540C-15	#
Turbidity	55	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-40-DUP	Collected	12/09/2024 13:45
Lab Sample ID	3391293003	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.043J	mg/L	0.11	0.036	SW846 6010C	#
Antimony, Total	0.0089J	mg/L	0.022	0.0073	SW846 6010C	#
Barium, Dissolved	0.21	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.21	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	139	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	132	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.013	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0090	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	10.6	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	10.5	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	118	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	118	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.2	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.2	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	51.2	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	50.7	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	82.7	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	81.6	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	114	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	76.5	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	40.7	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	82.7	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	11.9	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	0.71J	ug/L	1.5	0.28	SW846 8270E	#
Biphenyl	11.2	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	90.1	ug/L	3.0	0.25	SW846 8270E	#
Chrysene	0.46J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	47.8	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	15.6	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	71.8	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	146	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	2080	ug/L	30.0	13.0	SW846 8270E	#
o-Cresol	151	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	94.8	ug/L	1.5	0.25	SW846 8270E	#
Phenol	96.2	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	9.4	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	17.9J	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	10.5J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	1540	ug/L	50.0	11.5	SW846 8260D	#
mp-Xylene	42.8J	ug/L	100	26.0	SW846 8260D	#
o-Xylene	19.7J	ug/L	50.0	16.5	SW846 8260D	#
Styrene	12.6J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	94.3	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	62.5J	ug/L	150	33.0	SW846 8260D	#

Detected Results Summary

Sample - MW-40-DUP (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Acidity, Total	33	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	1230	mg/L	50	50	SM2320B-2011	#
Chloride	69.6	mg/L	5.0	2.2	SW846 9056A	#
pH	8.04	pH_Units			S4500HB-11	#
Specific Conductance	2550	umhos/cm	50	1	SW846 9050A	#
Sulfate	33.3	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1100	mg/L	25	25	SM2540C-15	#
Turbidity	55	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-41	Collected	12/09/2024 12:42
Lab Sample ID	3391293004	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.075J	mg/L	0.11	0.036	SW846 6010C	#
Barium, Dissolved	0.20	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.20	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	99.6	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	93.1	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0071	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0059	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	8.0	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	7.9	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	165	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	163	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.4	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.4	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	40.9	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	39.7	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	30.4	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	29.4	mg/L	0.56	0.18	SW846 6010C	#
Thallium, Dissolved	0.011J	mg/L	0.022	0.0073	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	117	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	205	ug/L	75.0	12.5	SW846 8270E	#
Acenaphthene	159	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	6.6	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	6.3	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	20.6	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	94.2	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	58.9	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	7.4	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	59.5	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	29.5	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	11300	ug/L	75.0	32.5	SW846 8270E	#
o-Cresol	17.1	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	64.2	ug/L	1.5	0.25	SW846 8270E	#
Phenol	43.7	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	4.1	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	83.9	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	14.1J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	27100	ug/L	1000	230	SW846 8260D	#
Ethylbenzene	230	ug/L	50.0	17.0	SW846 8260D	#
Isopropylbenzene	12.8J	ug/L	50.0	11.0	SW846 8260D	#
mp-Xylene	118	ug/L	100	26.0	SW846 8260D	#
o-Xylene	97.1	ug/L	50.0	16.5	SW846 8260D	#
Toluene	152	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	215	ug/L	150	33.0	SW846 8260D	#

Detected Results Summary

Sample - MW-41 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Alkalinity, Total	1100	mg/L	50	50	SM2320B-2011	#
Chloride	15.4	mg/L	5.0	2.2	SW846 9056A	#
pH	8.02	pH_Units			S4500HB-11	#
Specific Conductance	1810	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	9.4	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	978	mg/L	25	25	SM2540C-15	#
Turbidity	28	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-43	Collected	12/09/2024 11:40
Lab Sample ID	3391293005	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.31	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.31	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	147	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	142	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0066	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	5.8	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	6.0	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	41.8	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	41.9	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.47	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.49	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	21.3	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	21.4	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	29.1	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	29.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Naphthalene	0.75J	ug/L	1.5	0.65	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	6	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	617	mg/L	50	50	SM2320B-2011	#
Chloride	26.0	mg/L	5.0	2.2	SW846 9056A	#
pH	8.18	pH_Units			S4500HB-11	#
Specific Conductance	1090	umhos/cm	5	0.1	SW846 9050A	#
Total Dissolved Solids	582	mg/L	25	25	SM2540C-15	#
Turbidity	70	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-44	Collected	12/09/2024 15:45
Lab Sample ID	3391293006	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.27	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.0031J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.24	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.24	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	185	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	177	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0049J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0068	mg/L	0.0056	0.0020	SW846 6010C	#
Cobalt, Total	0.0029J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0037J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	28.9	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	29.9	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	113	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	114	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.89	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.92	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	40.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	40.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	38.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	38.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	0.27J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	5.1	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	0.33J	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	3.0J	ug/L	3.0	0.90	SW846 8270E	#
Anthracene	0.52J	ug/L	1.5	0.25	SW846 8270E	#
Carbazole	0.74J	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	0.66J	ug/L	3.0	0.25	SW846 8270E	#
Di-n-Butylphthalate	0.71J	ug/L	3.0	0.37	SW846 8270E	#
Fluoranthene	0.87J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	2.2	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	2.5	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	3.1	ug/L	1.5	0.25	SW846 8270E	#
Pyrene	0.54J	ug/L	1.5	0.25	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	62	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	1160	mg/L	50	50	SM2320B-2011	#
Chloride	41.4	mg/L	5.0	2.2	SW846 9056A	#
pH	8.02	pH_Units			S4500HB-11	#
Specific Conductance	2070	umhos/cm	5	0.1	SW846 9050A	#
Total Dissolved Solids	1000	mg/L	25	25	SM2540C-15	#
Turbidity	200	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-22D	Collected	12/09/2024 16:45
Lab Sample ID	3391293008	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.31	mg/L	0.11	0.036	SW846 6010C	#
Antimony, Total	0.0079J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.0034J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.016	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.023	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	41.2	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	40.3	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0032J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.041J	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.49	mg/L	0.067	0.022	SW846 6010C	#
Lead, Total	0.0057J	mg/L	0.0067	0.0022	SW846 6010C	#
Magnesium, Dissolved	4.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	4.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.012	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.030	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	5.8	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	6.0	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.0077J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	75.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	75.4	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Di-n-Butylphthalate	0.92J	ug/L	3.0	0.37	SW846 8270E	#
Fluoranthene	0.41J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	2.2	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	0.54J	ug/L	1.5	0.25	SW846 8270E	#
Pyrene	0.28J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	0.38J	ug/L	1.0	0.23	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	80	mg/L	5	5	SM2320B-2011	#
Chloride	16.1	mg/L	2.0	0.88	SW846 9056A	#
Nitrate-N	1.4	mg/L	1.0	0.32	SW846 9056A	#
pH	8.20	pH_Units			S4500HB-11	#
Specific Conductance	592	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	173	mg/L	2.0	1.4	SW846 9056A	#
Total Dissolved Solids	326	mg/L	25	25	SM2540C-15	#
Turbidity	50	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-22S	Collected	12/09/2024 16:45
Lab Sample ID	3391293009	Lab Receipt	12/10/2024 09:02

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.038J	mg/L	0.11	0.036	SW846 6010C	#
Antimony, Total	0.0076J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.0072J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.010	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.025	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.025	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	110	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	106	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.17	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.24	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	33.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	32.3	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.043	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.043	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	9.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	9.7	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0081J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.011J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	181	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	182	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	33.0	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	1.5	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	1.0J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	1.9	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	0.90J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	10.2	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	1.4J	ug/L	3.0	0.25	SW846 8270E	#
Fluorene	0.87J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	411	ug/L	6.0	2.6	SW846 8270E	#
o-Cresol	11.5	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	0.67J	ug/L	1.5	0.25	SW846 8270E	#
Phenol	8.0	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	7.0J	ug/L	10.0	2.5	SW846 8260D	#
1,3,5-Trimethylbenzene	2.9J	ug/L	10.0	2.0	SW846 8260D	#
Benzene	885	ug/L	10.0	2.3	SW846 8260D	#
Carbon Disulfide	2.8J	ug/L	10.0	2.3	SW846 8260D	#
Ethylbenzene	10.2	ug/L	10.0	3.4	SW846 8260D	#
mp-Xylene	12.4J	ug/L	20.0	5.2	SW846 8260D	#
o-Xylene	19.4	ug/L	10.0	3.3	SW846 8260D	#
Styrene	5.8J	ug/L	10.0	2.4	SW846 8260D	#
Toluene	5.8J	ug/L	10.0	2.3	SW846 8260D	#
Total Xylenes	31.8	ug/L	30.0	6.6	SW846 8260D	#

Detected Results Summary

Sample - MW-22S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Alkalinity, Total	106	mg/L	5	5	SM2320B-2011	#
Chloride	92.2	mg/L	2.0	0.88	SW846 9056A	#
Nitrate-N	0.39J	mg/L	1.0	0.32	SW846 9056A	#
pH	8.46	pH_Units			S4500HB-11	#
Specific Conductance	2090	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	611	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1060	mg/L	25	25	SM2540C-15	#
Turbidity	12	NTU	0.30	0.30	SM2130B-2011	#

Results

Client Sample ID	MW-39	Collected	12/09/2024 12:00
Lab Sample ID	3391293001	Lab Receipt	12/10/2024 09:02

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Aluminum, Total	0.65		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Antimony, Total	0.012J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Arsenic, Dissolved	0.062		mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Arsenic, Total	0.043		mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Barium, Dissolved	0.26		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Barium, Total	0.29		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Calcium, Dissolved	163		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Calcium, Total	131		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Chromium, Total	0.0059		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Cobalt, Total	0.0040J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Copper, Total	0.0059J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Iron, Dissolved	21.0		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Iron, Total	23.3		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Lead, Total	0.0030J	J	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Magnesium, Dissolved	55.6		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Magnesium, Total	56.2		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Manganese, Dissolved	1.6		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Manganese, Total	1.5		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:16	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:25	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Potassium, Dissolved	44.1		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Potassium, Total	49.8		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Sodium, Dissolved	155		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Sodium, Total	123		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:45	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:45	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:45	MSY	E2

Results

Client Sample ID	MW-39	Collected	12/09/2024 12:00
Lab Sample ID	3391293001	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,4-Dimethylphenol	1.3J	J	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 02:30	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 02:30	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 02:30	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:30	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 02:30	M1O	D
Acenaphthene	3.1		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Acenaphthylene	0.94J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Acetophenone	3.8		ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 02:30	M1O	D
Anthracene	0.62J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 02:30	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 02:30	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 02:30	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 02:30	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 02:30	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:30	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 02:30	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 02:30	M1O	D
Carbazole	2.7J	J	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D

Results

Client Sample ID	MW-39	Collected	12/09/2024 12:00
Lab Sample ID	3391293001	Lab Receipt	12/10/2024 09:02

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 02:30	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 02:30	M1O	D
Dibenzofuran	1.3J	J	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Di-n-Butylphthalate	1.1J	J	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 02:30	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Fluoranthene	0.54J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Fluorene	3.4		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 02:30	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 02:30	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 02:30	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 02:30	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
Naphthalene	7.6		ug/L	1.5	0.65	SW846 8270E	1	12/12/2024 02:30	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 02:30	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 02:30	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 02:30	M1O	D
Phenanthrene	4.2		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 02:30	M1O	D
Pyrene	0.30J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:30	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	53.6%	23 – 131	12/12/2024 02:30	
2-Fluorobiphenyl	321-60-8	49.5%	24 – 116	12/12/2024 02:30	
2-Fluorophenol	367-12-4	29.2%	10 – 85	12/12/2024 02:30	
Nitrobenzene-d5	4165-60-0	56.1%	32 – 125	12/12/2024 02:30	
Phenol-d5	4165-62-2	25.7%	7 – 56	12/12/2024 02:30	
Terphenyl-d14	98904-43-9	26.2*%	41 – 145	12/12/2024 02:30	1

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/17/2024 01:08	PDK	B

Results

Client Sample ID	MW-39	Collected	12/09/2024 12:00
Lab Sample ID	3391293001	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 01:08	PDK	B
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 01:08	PDK	B
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/17/2024 01:08	PDK	B
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/17/2024 01:08	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/17/2024 01:08	PDK	B
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/17/2024 01:08	PDK	B
Benzene	9.5		ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:08	PDK	B
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:08	PDK	B
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 01:08	PDK	B
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/17/2024 01:08	PDK	B
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/17/2024 01:08	PDK	B
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:08	PDK	B
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:08	PDK	B
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/17/2024 01:08	PDK	B
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 01:08	PDK	B
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:08	PDK	B
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/17/2024 01:08	PDK	B
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:08	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:08	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:08	PDK	B
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:08	PDK	B
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:08	PDK	B
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 01:08	PDK	B
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 01:08	PDK	B
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 01:08	PDK	B
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/17/2024 01:08	PDK	B
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 01:08	PDK	B
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:08	PDK	B
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 01:08	PDK	B
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/17/2024 01:08	PDK	B
o-Xylene	0.54J	J	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:08	PDK	B
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:08	PDK	B
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/17/2024 01:08	PDK	B
Toluene	0.26J	J	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:08	PDK	B
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/17/2024 01:08	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 01:08	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:08	PDK	B
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:08	PDK	B
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:08	PDK	B
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 01:08	PDK	B

Results

Client Sample ID	MW-39	Collected	12/09/2024 12:00
Lab Sample ID	3391293001	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/17/2024 01:08	
4-Bromofluorobenzene	460-00-4	99.6%	79 – 114	12/17/2024 01:08	
Dibromofluoromethane	1868-53-7	97%	78 – 116	12/17/2024 01:08	
Toluene-d8	2037-26-5	98.1%	76 – 127	12/17/2024 01:08	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	8	3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	748	4	mg/L	50	50	SM2320B-2011	10	12/16/2024 06:08	KMV	I
Chloride	143		mg/L	5.0	2.2	SW846 9056A	5	12/10/2024 17:37	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/10/2024 17:37	J1W	I
pH	8.13	5	pH_Units			S4500HB-11	1	12/12/2024 16:28	KMV	I
Specific Conductance	1740		umhos/cm	5	0.1	SW846 9050A	1	12/10/2024 17:34	LMD	I
Sulfate	40.7		mg/L	5.0	3.5	SW846 9056A	5	12/10/2024 17:37	J1W	I
Total Dissolved Solids	878		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	230		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	MW-40	Collected	12/09/2024 13:40
Lab Sample ID	3391293002	Lab Receipt	12/10/2024 09:02

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Aluminum, Total	0.043J	J	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Arsenic, Dissolved	0.0040J	J	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Barium, Dissolved	0.21		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Barium, Total	0.21		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Calcium, Dissolved	138		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Calcium, Total	132		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Chromium, Dissolved	0.0064		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Chromium, Total	0.0074		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Iron, Dissolved	10.5		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Iron, Total	10.6		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Magnesium, Dissolved	118		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Magnesium, Total	117		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Manganese, Dissolved	1.2		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Manganese, Total	1.2		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:20	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:31	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Potassium, Dissolved	51.1		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Potassium, Total	50.6		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Sodium, Dissolved	82.8		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Sodium, Total	81.7		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:46	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:46	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/17/2024 12:21	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:46	MSY	E2

Results

Client Sample ID	MW-40	Collected	12/09/2024 13:40
Lab Sample ID	3391293002	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,4-Dimethylphenol	116		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 03:19	M1O	D
2-Methylnaphthalene	81.5		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 03:19	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 03:19	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 03:19	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 03:19	M1O	D
Acenaphthene	41.4		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Acenaphthylene	83.3		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 03:19	M1O	D
Anthracene	12.2		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Benzo(a)anthracene	0.72J	J	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 03:19	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 03:19	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 03:19	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 03:19	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 03:19	M1O	D
Biphenyl	11.6		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 03:19	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 03:19	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 03:19	M1O	D
Carbazole	92.3		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D

Results

Client Sample ID	MW-40	Collected	12/09/2024 13:40
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.37J	J	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 03:19	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 03:19	M1O	D
Dibenzofuran	47.3		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 03:19	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Fluoranthene	15.6		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Fluorene	71.1		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 03:19	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 03:19	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 03:19	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 03:19	M1O	D
mp-Cresol	136		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
Naphthalene	2120		ug/L	30.0	13.0	SW846 8270E	20	12/13/2024 02:02	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 03:19	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 03:19	M1O	D
o-Cresol	150		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 03:19	M1O	D
Phenanthrene	95.9		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D
Phenol	84.2		ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 03:19	M1O	D
Pyrene	9.3		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:19	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	66.2%	23 – 131	12/12/2024 03:19	
2,4,6-Tribromophenol	118-79-6	76.9%	23 – 131	12/13/2024 02:02	
2-Fluorobiphenyl	321-60-8	76.1%	24 – 116	12/12/2024 03:19	
2-Fluorobiphenyl	321-60-8	96%	24 – 116	12/13/2024 02:02	
2-Fluorophenol	367-12-4	36.5%	10 – 85	12/12/2024 03:19	
2-Fluorophenol	367-12-4	38.8%	10 – 85	12/13/2024 02:02	
Nitrobenzene-d5	4165-60-0	85.7%	32 – 125	12/12/2024 03:19	
Nitrobenzene-d5	4165-60-0	90.2%	32 – 125	12/13/2024 02:02	
Phenol-d5	4165-62-2	32.9%	7 – 56	12/12/2024 03:19	
Phenol-d5	4165-62-2	36.9%	7 – 56	12/13/2024 02:02	
Terphenyl-d14	98904-43-9	35.7*%	41 – 145	12/12/2024 03:19	6
Terphenyl-d14	98904-43-9	48.1%	41 – 145	12/13/2024 02:02	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/13/2024 02:50	BST	A

Results

Client Sample ID	MW-40	Collected	12/09/2024 13:40
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 02:50	BST	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2,4-Trimethylbenzene	18.0J	J	ug/L	50.0	12.5	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,3,5-Trimethylbenzene	10.4J	J	ug/L	50.0	10.0	SW846 8260D	50	12/13/2024 02:50	BST	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/13/2024 02:50	BST	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/13/2024 02:50	BST	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/13/2024 02:50	BST	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/13/2024 02:50	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/13/2024 02:50	BST	A
Benzene	1510		ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 02:50	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 02:50	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Ethylbenzene	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/13/2024 02:50	BST	A
mp-Xylene	41.8J	J	ug/L	100	26.0	SW846 8260D	50	12/13/2024 02:50	BST	A
o-Xylene	19.1J	J	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Styrene	13.4J	J	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Toluene	95.6		ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 02:50	BST	A

Results

Client Sample ID	MW-40	Collected	12/09/2024 13:40
Lab Sample ID	3391293002	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	60.9J	J	ug/L	150	33.0	SW846 8260D	50	12/13/2024 02:50	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/13/2024 02:50	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 02:50	BST	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 02:50	BST	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/13/2024 02:50	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/13/2024 02:50	
4-Bromofluorobenzene	460-00-4	99.2%	79 – 114	12/13/2024 02:50	
Dibromofluoromethane	1868-53-7	97.2%	78 – 116	12/13/2024 02:50	
Toluene-d8	2037-26-5	99.8%	76 – 127	12/13/2024 02:50	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	5	3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	1230	4	mg/L	50	50	SM2320B-2011	10	12/16/2024 06:31	KMV	I
Chloride	69.3		mg/L	5.0	2.2	SW846 9056A	5	12/10/2024 17:48	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/10/2024 17:48	J1W	I
pH	8.05	5	pH_Units			S4500HB-11	1	12/12/2024 17:40	KMV	I
Specific Conductance	1810		umhos/cm	50	1	SW846 9050A	10	12/10/2024 17:34	LMD	I
Sulfate	34.4		mg/L	5.0	3.5	SW846 9056A	5	12/10/2024 17:48	J1W	I
Total Dissolved Solids	1090		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	55		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	MW-40-DUP	Collected	12/09/2024 13:45
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Aluminum, Total	0.043J	J	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Antimony, Total	0.0089J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Barium, Dissolved	0.21		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Barium, Total	0.21		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Calcium, Dissolved	139		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Calcium, Total	132		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Chromium, Dissolved	0.013		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Chromium, Total	0.0090		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Iron, Dissolved	10.6		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Iron, Total	10.5		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Magnesium, Dissolved	118		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Magnesium, Total	118		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Manganese, Dissolved	1.2		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Manganese, Total	1.2		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:13	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:28	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Potassium, Dissolved	51.2		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Potassium, Total	50.7		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Sodium, Dissolved	82.7		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Sodium, Total	81.6		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:47	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:47	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/17/2024 12:27	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:47	MSY	E2

Results

Client Sample ID	MW-40-DUP	Collected	12/09/2024 13:45
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,4-Dimethylphenol	114		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 03:43	M1O	D
2-Methylnaphthalene	76.5		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 03:43	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 03:43	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 03:43	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 03:43	M1O	D
Acenaphthene	40.7		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Acenaphthylene	82.7		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 03:43	M1O	D
Anthracene	11.9		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Benzo(a)anthracene	0.71J	J	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 03:43	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 03:43	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 03:43	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 03:43	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 03:43	M1O	D
Biphenyl	11.2		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 03:43	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 03:43	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 03:43	M1O	D
Carbazole	90.1		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.46J	J	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 03:43	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 03:43	M1O	D
Dibenzofuran	47.8		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 03:43	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Fluoranthene	15.6		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Fluorene	71.8		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 03:43	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 03:43	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 03:43	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 03:43	M1O	D
mp-Cresol	146		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
Naphthalene	2080		ug/L	30.0	13.0	SW846 8270E	20	12/13/2024 02:27	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 03:43	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 03:43	M1O	D
o-Cresol	151		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 03:43	M1O	D
Phenanthrene	94.8		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D
Phenol	96.2		ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 03:43	M1O	D
Pyrene	9.4		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 03:43	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	78.8%	23 – 131	12/12/2024 03:43	
2,4,6-Tribromophenol	118-79-6	92.4%	23 – 131	12/13/2024 02:27	
2-Fluorobiphenyl	321-60-8	71.2%	24 – 116	12/12/2024 03:43	
2-Fluorobiphenyl	321-60-8	92.3%	24 – 116	12/13/2024 02:27	
2-Fluorophenol	367-12-4	41.4%	10 – 85	12/12/2024 03:43	
2-Fluorophenol	367-12-4	55.3%	10 – 85	12/13/2024 02:27	
Nitrobenzene-d5	4165-60-0	76%	32 – 125	12/12/2024 03:43	
Nitrobenzene-d5	4165-60-0	91%	32 – 125	12/13/2024 02:27	
Phenol-d5	4165-62-2	36.8%	7 – 56	12/12/2024 03:43	
Phenol-d5	4165-62-2	46.8%	7 – 56	12/13/2024 02:27	
Terphenyl-d14	98904-43-9	41.9%	41 – 145	12/12/2024 03:43	
Terphenyl-d14	98904-43-9	61.2%	41 – 145	12/13/2024 02:27	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/13/2024 03:09	BST	A

Results

Client Sample ID	MW-40-DUP	Collected	12/09/2024 13:45
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:09	BST	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2,4-Trimethylbenzene	17.9J	J	ug/L	50.0	12.5	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,3,5-Trimethylbenzene	10.5J	J	ug/L	50.0	10.0	SW846 8260D	50	12/13/2024 03:09	BST	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/13/2024 03:09	BST	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/13/2024 03:09	BST	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/13/2024 03:09	BST	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/13/2024 03:09	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/13/2024 03:09	BST	A
Benzene	1540		ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 03:09	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 03:09	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Ethylbenzene	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/13/2024 03:09	BST	A
mp-Xylene	42.8J	J	ug/L	100	26.0	SW846 8260D	50	12/13/2024 03:09	BST	A
o-Xylene	19.7J	J	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Styrene	12.6J	J	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Toluene	94.3		ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 03:09	BST	A

Results

Client Sample ID	MW-40-DUP	Collected	12/09/2024 13:45
Lab Sample ID	3391293003	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	62.5J	J	ug/L	150	33.0	SW846 8260D	50	12/13/2024 03:09	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/13/2024 03:09	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:09	BST	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 03:09	BST	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/13/2024 03:09	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/13/2024 03:09	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	12/13/2024 03:09	
Dibromofluoromethane	1868-53-7	96.9%	78 – 116	12/13/2024 03:09	
Toluene-d8	2037-26-5	99.6%	76 – 127	12/13/2024 03:09	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	33	3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	1230	4	mg/L	50	50	SM2320B-2011	10	12/16/2024 06:54	KMV	I
Chloride	69.6		mg/L	5.0	2.2	SW846 9056A	5	12/10/2024 18:00	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/10/2024 18:00	J1W	I
pH	8.04	5	pH_Units			S4500HB-11	1	12/12/2024 18:27	KMV	I
Specific Conductance	2550		umhos/cm	50	1	SW846 9050A	10	12/10/2024 17:34	LMD	I
Sulfate	33.3		mg/L	5.0	3.5	SW846 9056A	5	12/10/2024 18:00	J1W	I
Total Dissolved Solids	1100		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	55		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	MW-41	Collected	12/09/2024 12:42
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Aluminum, Total	0.075J	J	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Barium, Dissolved	0.20		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Barium, Total	0.20		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Calcium, Dissolved	99.6		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Calcium, Total	93.1		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Chromium, Dissolved	0.0071		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Chromium, Total	0.0059		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Iron, Dissolved	8.0		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Iron, Total	7.9		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Magnesium, Dissolved	165		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Magnesium, Total	163		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Manganese, Dissolved	1.4		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Manganese, Total	1.4		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:15	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:30	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Potassium, Dissolved	40.9		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Potassium, Total	39.7		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Sodium, Dissolved	30.4		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Sodium, Total	29.4		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Thallium, Dissolved	0.011J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:49	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:48	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/17/2024 12:29	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:48	MSY	E2

Results

Client Sample ID	MW-41	Collected	12/09/2024 12:42
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,4-Dimethylphenol	117		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 02:55	M1O	D
2-Methylnaphthalene	205		ug/L	75.0	12.5	SW846 8270E	50	12/13/2024 01:38	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 02:55	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 02:55	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:55	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 02:55	M1O	D
Acenaphthene	159		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Acenaphthylene	6.6		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 02:55	M1O	D
Anthracene	6.3		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 02:55	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 02:55	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 02:55	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 02:55	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 02:55	M1O	D
Biphenyl	20.6		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:55	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 02:55	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 02:55	M1O	D
Carbazole	94.2		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D

Results

Client Sample ID	MW-41	Collected	12/09/2024 12:42
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 02:55	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 02:55	M1O	D
Dibenzofuran	58.9		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 02:55	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Fluoranthene	7.4		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Fluorene	59.5		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 02:55	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 02:55	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 02:55	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 02:55	M1O	D
mp-Cresol	29.5		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
Naphthalene	11300	E	ug/L	75.0	32.5	SW846 8270E	50	12/13/2024 01:38	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 02:55	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 02:55	M1O	D
o-Cresol	17.1		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 02:55	M1O	D
Phenanthrene	64.2		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D
Phenol	43.7		ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 02:55	M1O	D
Pyrene	4.1		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:55	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	75.9%	23 – 131	12/12/2024 02:55	
2,4,6-Tribromophenol	118-79-6	69.7%	23 – 131	12/13/2024 01:38	
2-Fluorobiphenyl	321-60-8	66.7%	24 – 116	12/12/2024 02:55	
2-Fluorobiphenyl	321-60-8	84.8%	24 – 116	12/13/2024 01:38	
2-Fluorophenol	367-12-4	44.9%	10 – 85	12/12/2024 02:55	
2-Fluorophenol	367-12-4	0*%	10 – 85	12/13/2024 01:38	7
Nitrobenzene-d5	4165-60-0	83.4%	32 – 125	12/12/2024 02:55	
Nitrobenzene-d5	4165-60-0	65.4%	32 – 125	12/13/2024 01:38	
Phenol-d5	4165-62-2	35.4%	7 – 56	12/12/2024 02:55	
Phenol-d5	4165-62-2	41.9%	7 – 56	12/13/2024 01:38	
Terphenyl-d14	98904-43-9	27.5*%	41 – 145	12/12/2024 02:55	9
Terphenyl-d14	98904-43-9	0*%	41 – 145	12/13/2024 01:38	8

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/13/2024 03:29	BST	A

Results

Client Sample ID	MW-41	Collected	12/09/2024 12:42
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:29	BST	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2,4-Trimethylbenzene	83.9		ug/L	50.0	12.5	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,3,5-Trimethylbenzene	14.1J	J	ug/L	50.0	10.0	SW846 8260D	50	12/13/2024 03:29	BST	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/13/2024 03:29	BST	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/13/2024 03:29	BST	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/13/2024 03:29	BST	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/13/2024 03:29	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/13/2024 03:29	BST	A
Benzene	27100		ug/L	1000	230	SW846 8260D	1000	12/17/2024 02:30	PDK	B
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 03:29	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/13/2024 03:29	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Ethylbenzene	230		ug/L	50.0	17.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Isopropylbenzene	12.8J	J	ug/L	50.0	11.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/13/2024 03:29	BST	A
mp-Xylene	118		ug/L	100	26.0	SW846 8260D	50	12/13/2024 03:29	BST	A
o-Xylene	97.1		ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Styrene	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Toluene	152		ug/L	50.0	11.5	SW846 8260D	50	12/13/2024 03:29	BST	A

Results

Client Sample ID	MW-41	Collected	12/09/2024 12:42
Lab Sample ID	3391293004	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	215		ug/L	150	33.0	SW846 8260D	50	12/13/2024 03:29	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/13/2024 03:29	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/13/2024 03:29	BST	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/13/2024 03:29	BST	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/13/2024 03:29	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/13/2024 03:29	
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/17/2024 02:30	
4-Bromofluorobenzene	460-00-4	98.2%	79 – 114	12/13/2024 03:29	
4-Bromofluorobenzene	460-00-4	97.4%	79 – 114	12/17/2024 02:30	
Dibromofluoromethane	1868-53-7	102%	78 – 116	12/13/2024 03:29	
Dibromofluoromethane	1868-53-7	95%	78 – 116	12/17/2024 02:30	
Toluene-d8	2037-26-5	99.9%	76 – 127	12/13/2024 03:29	
Toluene-d8	2037-26-5	99%	76 – 127	12/17/2024 02:30	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	1100	4	mg/L	50	50	SM2320B-2011	10	12/16/2024 07:05	KMV	I
Chloride	15.4		mg/L	5.0	2.2	SW846 9056A	5	12/10/2024 18:11	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/10/2024 18:11	J1W	I
pH	8.02	5	pH_Units			S4500HB-11	1	12/12/2024 18:39	KMV	I
Specific Conductance	1810		umhos/cm	5	0.1	SW846 9050A	1	12/10/2024 17:34	LMD	I
Sulfate	9.4		mg/L	5.0	3.5	SW846 9056A	5	12/10/2024 18:11	J1W	I
Total Dissolved Solids	978		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	28		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	MW-43	Collected	12/09/2024 11:40
Lab Sample ID	3391293005	Lab Receipt	12/10/2024 09:02

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Barium, Dissolved	0.31		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Barium, Total	0.31		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Calcium, Dissolved	147	10	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Calcium, Total	142		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Chromium, Dissolved	0.0066		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Iron, Dissolved	5.8		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Iron, Total	6.0		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Magnesium, Dissolved	41.8	10	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Magnesium, Total	41.9		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Manganese, Dissolved	0.47		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Manganese, Total	0.49		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:11	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:18	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Potassium, Dissolved	21.3		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Potassium, Total	21.4		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Sodium, Dissolved	29.1		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Sodium, Total	29.1		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:49	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 12:50	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:49	MSY	E2

Results

Client Sample ID	MW-43	Collected	12/09/2024 11:40
Lab Sample ID	3391293005	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 02:06	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 02:06	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 02:06	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:06	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 02:06	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 02:06	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 02:06	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 02:06	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 02:06	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 02:06	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 02:06	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 02:06	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 02:06	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 02:06	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D

Results

Client Sample ID	MW-43	Collected	12/09/2024 11:40
Lab Sample ID	3391293005	Lab Receipt	12/10/2024 09:02

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 02:06	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 02:06	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 02:06	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 02:06	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 02:06	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 02:06	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 02:06	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
Naphthalene	0.75J	J	ug/L	1.5	0.65	SW846 8270E	1	12/12/2024 02:06	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 02:06	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 02:06	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 02:06	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 02:06	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 02:06	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	77.8%	23 – 131	12/12/2024 02:06	
2-Fluorobiphenyl	321-60-8	66.2%	24 – 116	12/12/2024 02:06	
2-Fluorophenol	367-12-4	47.2%	10 – 85	12/12/2024 02:06	
Nitrobenzene-d5	4165-60-0	71.2%	32 – 125	12/12/2024 02:06	
Phenol-d5	4165-62-2	35.8%	7 – 56	12/12/2024 02:06	
Terphenyl-d14	98904-43-9	35.7*%	41 – 145	12/12/2024 02:06	6

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/17/2024 01:28	PDK	B

Results

Client Sample ID	MW-43	Collected	12/09/2024 11:40
Lab Sample ID	3391293005	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 01:28	PDK	B
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 01:28	PDK	B
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/17/2024 01:28	PDK	B
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/17/2024 01:28	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/17/2024 01:28	PDK	B
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/17/2024 01:28	PDK	B
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:28	PDK	B
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:28	PDK	B
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 01:28	PDK	B
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/17/2024 01:28	PDK	B
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/17/2024 01:28	PDK	B
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:28	PDK	B
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:28	PDK	B
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/17/2024 01:28	PDK	B
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 01:28	PDK	B
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:28	PDK	B
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/17/2024 01:28	PDK	B
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:28	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:28	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:28	PDK	B
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:28	PDK	B
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:28	PDK	B
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 01:28	PDK	B
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 01:28	PDK	B
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 01:28	PDK	B
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/17/2024 01:28	PDK	B
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 01:28	PDK	B
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:28	PDK	B
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 01:28	PDK	B
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/17/2024 01:28	PDK	B
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:28	PDK	B
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:28	PDK	B
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/17/2024 01:28	PDK	B
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:28	PDK	B
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/17/2024 01:28	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 01:28	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:28	PDK	B
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:28	PDK	B
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:28	PDK	B
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 01:28	PDK	B

Results

Client Sample ID	MW-43	Collected	12/09/2024 11:40
Lab Sample ID	3391293005	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/17/2024 01:28	
4-Bromofluorobenzene	460-00-4	98.3%	79 – 114	12/17/2024 01:28	
Dibromofluoromethane	1868-53-7	96.6%	78 – 116	12/17/2024 01:28	
Toluene-d8	2037-26-5	98%	76 – 127	12/17/2024 01:28	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	6	3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	617	4	mg/L	50	50	SM2320B-2011	10	12/16/2024 07:16	KMV	I
Chloride	26.0		mg/L	5.0	2.2	SW846 9056A	5	12/10/2024 18:23	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/10/2024 18:23	J1W	I
pH	8.18	5	pH_Units			S4500HB-11	1	12/12/2024 18:51	KMV	I
Specific Conductance	1090		umhos/cm	5	0.1	SW846 9050A	1	12/10/2024 17:34	LMD	I
Sulfate	ND	ND	mg/L	5.0	3.5	SW846 9056A	5	12/10/2024 18:23	J1W	I
Total Dissolved Solids	582		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	70		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	MW-44	Collected	12/09/2024 15:45
Lab Sample ID	3391293006	Lab Receipt	12/10/2024 09:02

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Aluminum, Total	0.27		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Arsenic, Dissolved	0.0031J	J	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Barium, Dissolved	0.24		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Barium, Total	0.24		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Calcium, Dissolved	185		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Calcium, Total	177		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Chromium, Dissolved	0.0049J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Chromium, Total	0.0068		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Cobalt, Total	0.0029J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Copper, Total	0.0037J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Iron, Dissolved	28.9		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Iron, Total	29.9		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Magnesium, Dissolved	113		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Magnesium, Total	114		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Manganese, Dissolved	0.89		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Manganese, Total	0.92		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:10	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:29	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Potassium, Dissolved	40.6		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Potassium, Total	40.6		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Sodium, Dissolved	38.2		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Sodium, Total	38.1		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:02	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:51	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/17/2024 12:31	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:51	MSY	E2

Results

Client Sample ID	MW-44	Collected	12/09/2024 15:45
Lab Sample ID	3391293006	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 04:08	M1O	D
2-Methylnaphthalene	0.27J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 04:08	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 04:08	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:08	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 04:08	M1O	D
Acenaphthene	5.1		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Acenaphthylene	0.33J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Acetophenone	3.0J	J	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 04:08	M1O	D
Anthracene	0.52J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 04:08	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 04:08	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 04:08	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 04:08	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 04:08	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:08	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 04:08	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 04:08	M1O	D
Carbazole	0.74J	J	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D

Results

Client Sample ID	MW-44	Collected	12/09/2024 15:45
Lab Sample ID	3391293006	Lab Receipt	12/10/2024 09:02

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 04:08	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 04:08	M1O	D
Dibenzofuran	0.66J	J	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Di-n-Butylphthalate	0.71J	J	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 04:08	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Fluoranthene	0.87J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Fluorene	2.2		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 04:08	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 04:08	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 04:08	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 04:08	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
Naphthalene	2.5		ug/L	1.5	0.65	SW846 8270E	1	12/12/2024 04:08	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 04:08	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 04:08	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 04:08	M1O	D
Phenanthrene	3.1		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 04:08	M1O	D
Pyrene	0.54J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:08	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	75.4%	23 – 131	12/12/2024 04:08	
2-Fluorobiphenyl	321-60-8	67.2%	24 – 116	12/12/2024 04:08	
2-Fluorophenol	367-12-4	40.1%	10 – 85	12/12/2024 04:08	
Nitrobenzene-d5	4165-60-0	68.1%	32 – 125	12/12/2024 04:08	
Phenol-d5	4165-62-2	32.5%	7 – 56	12/12/2024 04:08	
Terphenyl-d14	98904-43-9	32.1*%	41 – 145	12/12/2024 04:08	11

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/17/2024 01:49	PDK	B

Results

Client Sample ID	MW-44	Collected	12/09/2024 15:45
Lab Sample ID	3391293006	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 01:49	PDK	B
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 01:49	PDK	B
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/17/2024 01:49	PDK	B
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/17/2024 01:49	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/17/2024 01:49	PDK	B
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/17/2024 01:49	PDK	B
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:49	PDK	B
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:49	PDK	B
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 01:49	PDK	B
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/17/2024 01:49	PDK	B
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/17/2024 01:49	PDK	B
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:49	PDK	B
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:49	PDK	B
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/17/2024 01:49	PDK	B
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 01:49	PDK	B
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:49	PDK	B
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/17/2024 01:49	PDK	B
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:49	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 01:49	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 01:49	PDK	B
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:49	PDK	B
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:49	PDK	B
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 01:49	PDK	B
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 01:49	PDK	B
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 01:49	PDK	B
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/17/2024 01:49	PDK	B
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 01:49	PDK	B
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:49	PDK	B
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 01:49	PDK	B
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/17/2024 01:49	PDK	B
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:49	PDK	B
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:49	PDK	B
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/17/2024 01:49	PDK	B
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 01:49	PDK	B
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/17/2024 01:49	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 01:49	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 01:49	PDK	B
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 01:49	PDK	B
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 01:49	PDK	B
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 01:49	PDK	B

Results

Client Sample ID	MW-44	Collected	12/09/2024 15:45
Lab Sample ID	3391293006	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/17/2024 01:49	
4-Bromofluorobenzene	460-00-4	96.6%	79 – 114	12/17/2024 01:49	
Dibromofluoromethane	1868-53-7	96.3%	78 – 116	12/17/2024 01:49	
Toluene-d8	2037-26-5	98.6%	76 – 127	12/17/2024 01:49	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	62	3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	1160	4	mg/L	50	50	SM2320B-2011	10	12/16/2024 07:29	KMV	I
Chloride	41.4		mg/L	5.0	2.2	SW846 9056A	5	12/10/2024 18:34	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/10/2024 18:34	J1W	I
pH	8.02	5	pH_Units			S4500HB-11	1	12/12/2024 19:03	KMV	I
Specific Conductance	2070		umhos/cm	5	0.1	SW846 9050A	1	12/10/2024 17:34	LMD	I
Sulfate	ND	ND	mg/L	5.0	3.5	SW846 9056A	5	12/10/2024 18:34	J1W	I
Total Dissolved Solids	1000		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	200		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	TB-40	Collected	12/09/2024 00:00
Lab Sample ID	3391293007	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/12/2024 20:51	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/12/2024 20:51	BST	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/12/2024 20:51	BST	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/12/2024 20:51	BST	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/12/2024 20:51	BST	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/12/2024 20:51	BST	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/12/2024 20:51	BST	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/12/2024 20:51	BST	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/12/2024 20:51	BST	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/12/2024 20:51	BST	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/12/2024 20:51	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/12/2024 20:51	BST	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/12/2024 20:51	BST	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/12/2024 20:51	BST	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/12/2024 20:51	BST	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/12/2024 20:51	BST	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/12/2024 20:51	BST	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/12/2024 20:51	BST	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/12/2024 20:51	BST	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/12/2024 20:51	BST	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/12/2024 20:51	BST	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/12/2024 20:51	BST	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/12/2024 20:51	BST	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/12/2024 20:51	BST	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/12/2024 20:51	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/12/2024 20:51	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/12/2024 20:51	BST	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/12/2024 20:51	BST	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/12/2024 20:51	BST	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/12/2024 20:51	BST	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/12/2024 20:51	BST	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/12/2024 20:51	BST	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/12/2024 20:51	BST	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/12/2024 20:51	BST	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/12/2024 20:51	BST	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/12/2024 20:51	BST	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/12/2024 20:51	BST	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/12/2024 20:51	BST	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/12/2024 20:51	BST	A

Results

Client Sample ID	TB-40	Collected	12/09/2024 00:00
Lab Sample ID	3391293007	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/12/2024 20:51	BST	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/12/2024 20:51	BST	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/12/2024 20:51	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/12/2024 20:51	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/12/2024 20:51	BST	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/12/2024 20:51	BST	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/12/2024 20:51	BST	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/12/2024 20:51	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/12/2024 20:51	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	12/12/2024 20:51	
Dibromofluoromethane	1868-53-7	98.3%	78 – 116	12/12/2024 20:51	
Toluene-d8	2037-26-5	101%	76 – 127	12/12/2024 20:51	

Results

Client Sample ID	MW-22D	Collected	12/09/2024 16:45
Lab Sample ID	3391293008	Lab Receipt	12/10/2024 09:02

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Aluminum, Total	0.31		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Antimony, Total	0.0079J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Arsenic, Dissolved	0.0034J	J	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Barium, Dissolved	0.016		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Barium, Total	0.023		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Calcium, Dissolved	41.2		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Calcium, Total	40.3		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Chromium, Total	0.0032J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Iron, Dissolved	0.041J	J	mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Iron, Total	0.49		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Lead, Total	0.0057J	J	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Magnesium, Dissolved	4.4		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Magnesium, Total	4.5		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Manganese, Dissolved	0.012		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Manganese, Total	0.030		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:05	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:24	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Potassium, Dissolved	5.8		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Potassium, Total	6.0		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Selenium, Total	0.0077J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Sodium, Dissolved	75.6		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Sodium, Total	75.4		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 10:55	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:04	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 10:55	MSY	E2

Results

Client Sample ID	MW-22D	Collected	12/09/2024 16:45
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 04:32	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 04:32	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 04:32	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:32	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 04:32	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 04:32	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 04:32	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 04:32	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 04:32	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 04:32	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 04:32	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:32	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 04:32	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 04:32	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D

Results

Client Sample ID	MW-22D	Collected	12/09/2024 16:45
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 04:32	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 04:32	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Di-n-Butylphthalate	0.92J	J	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 04:32	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Fluoranthene	0.41J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 04:32	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 04:32	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 04:32	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 04:32	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
Naphthalene	2.2		ug/L	1.5	0.65	SW846 8270E	1	12/12/2024 04:32	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 04:32	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 04:32	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 04:32	M1O	D
Phenanthrene	0.54J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 04:32	M1O	D
Pyrene	0.28J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:32	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	75.8%	23 – 131	12/12/2024 04:32	
2-Fluorobiphenyl	321-60-8	71.4%	24 – 116	12/12/2024 04:32	
2-Fluorophenol	367-12-4	41.5%	10 – 85	12/12/2024 04:32	
Nitrobenzene-d5	4165-60-0	71.6%	32 – 125	12/12/2024 04:32	
Phenol-d5	4165-62-2	36.7%	7 – 56	12/12/2024 04:32	
Terphenyl-d14	98904-43-9	54.5%	41 – 145	12/12/2024 04:32	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/17/2024 02:09	PDK	B

Results

Client Sample ID	MW-22D	Collected	12/09/2024 16:45
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 02:09	PDK	B
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 02:09	PDK	B
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/17/2024 02:09	PDK	B
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/17/2024 02:09	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/17/2024 02:09	PDK	B
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/17/2024 02:09	PDK	B
Benzene	0.38J	J	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 02:09	PDK	B
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 02:09	PDK	B
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 02:09	PDK	B
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/17/2024 02:09	PDK	B
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/17/2024 02:09	PDK	B
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 02:09	PDK	B
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 02:09	PDK	B
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/17/2024 02:09	PDK	B
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 02:09	PDK	B
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 02:09	PDK	B
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/17/2024 02:09	PDK	B
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 02:09	PDK	B
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 02:09	PDK	B
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 02:09	PDK	B
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 02:09	PDK	B
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 02:09	PDK	B
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 02:09	PDK	B
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 02:09	PDK	B
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 02:09	PDK	B
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/17/2024 02:09	PDK	B
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 02:09	PDK	B
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 02:09	PDK	B
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 02:09	PDK	B
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/17/2024 02:09	PDK	B
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 02:09	PDK	B
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 02:09	PDK	B
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/17/2024 02:09	PDK	B
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 02:09	PDK	B
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/17/2024 02:09	PDK	B
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 02:09	PDK	B
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 02:09	PDK	B
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 02:09	PDK	B
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 02:09	PDK	B
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 02:09	PDK	B

Results

Client Sample ID	MW-22D	Collected	12/09/2024 16:45
Lab Sample ID	3391293008	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/17/2024 02:09	
4-Bromofluorobenzene	460-00-4	98.1%	79 – 114	12/17/2024 02:09	
Dibromofluoromethane	1868-53-7	96.4%	78 – 116	12/17/2024 02:09	
Toluene-d8	2037-26-5	98.5%	76 – 127	12/17/2024 02:09	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	80	4	mg/L	5	5	SM2320B-2011	1	12/12/2024 19:12	KMV	I
Chloride	16.1		mg/L	2.0	0.88	SW846 9056A	2	12/10/2024 19:31	J1W	I
Nitrate-N	1.4		mg/L	1.0	0.32	SW846 9056A	2	12/10/2024 19:31	J1W	I
pH	8.20	5	pH_Units			S4500HB-11	1	12/12/2024 19:12	KMV	I
Specific Conductance	592		umhos/cm	5	0.1	SW846 9050A	1	12/10/2024 17:34	LMD	I
Sulfate	173		mg/L	2.0	1.4	SW846 9056A	2	12/10/2024 19:31	J1W	I
Total Dissolved Solids	326		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	50		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Results

Client Sample ID	MW-22S	Collected	12/09/2024 16:45
Lab Sample ID	3391293009	Lab Receipt	12/10/2024 09:02

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Aluminum, Total	0.038J	J	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Antimony, Total	0.0076J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Arsenic, Dissolved	0.0072J	J	mg/L	0.0090	0.0030	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Arsenic, Total	0.010		mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 11:22	MSY	E2
Barium, Dissolved	0.025		mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Barium, Total	0.025		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Calcium, Dissolved	110		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Calcium, Total	106		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Chromium, Total	0.0021J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Iron, Dissolved	0.17		mg/L	0.067	0.022	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Iron, Total	0.24		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Magnesium, Dissolved	33.4		mg/L	0.11	0.036	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Magnesium, Total	32.3		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Manganese, Dissolved	0.043		mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Manganese, Total	0.043		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 13:14	AJN	G1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/11/2024 12:27	AJN	E1
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Potassium, Dissolved	9.7		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Potassium, Total	9.7		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Selenium, Dissolved	0.0081J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Selenium, Total	0.011J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Sodium, Dissolved	181		mg/L	0.56	0.18	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Sodium, Total	182		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:50	MSY	E2
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/16/2024 13:05	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:50	MSY	E2

Results

Client Sample ID	MW-22S	Collected	12/09/2024 16:45
Lab Sample ID	3391293009	Lab Receipt	12/10/2024 09:02

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,4-Dimethylphenol	33.0		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/12/2024 04:57	M1O	D
2-Methylnaphthalene	1.5		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/12/2024 04:57	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/12/2024 04:57	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:57	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/12/2024 04:57	M1O	D
Acenaphthene	1.0J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Acenaphthylene	1.9		ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/12/2024 04:57	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/12/2024 04:57	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 04:57	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/12/2024 04:57	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/12/2024 04:57	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/12/2024 04:57	M1O	D
Biphenyl	0.90J	J	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/12/2024 04:57	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/12/2024 04:57	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/12/2024 04:57	M1O	D
Carbazole	10.2		ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D

Results

Client Sample ID	MW-22S	Collected	12/09/2024 16:45
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/12/2024 04:57	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/12/2024 04:57	M1O	D
Dibenzofuran	1.4J	J	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 04:57	M1O	D
Di-n-Octylphthalate	ND	ND,2	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Fluorene	0.87J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/12/2024 04:57	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/12/2024 04:57	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/12/2024 04:57	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/12/2024 04:57	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
Naphthalene	411		ug/L	6.0	2.6	SW846 8270E	4	12/13/2024 02:51	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/12/2024 04:57	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/12/2024 04:57	M1O	D
o-Cresol	11.5		ug/L	3.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/12/2024 04:57	M1O	D
Phenanthrene	0.67J	J	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D
Phenol	8.0		ug/L	8.0	0.50	SW846 8270E	1	12/12/2024 04:57	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/12/2024 04:57	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	61.1%	23 – 131	12/12/2024 04:57	
2,4,6-Tribromophenol	118-79-6	75%	23 – 131	12/13/2024 02:51	
2-Fluorobiphenyl	321-60-8	63.2%	24 – 116	12/12/2024 04:57	
2-Fluorobiphenyl	321-60-8	84.8%	24 – 116	12/13/2024 02:51	
2-Fluorophenol	367-12-4	38.4%	10 – 85	12/12/2024 04:57	
2-Fluorophenol	367-12-4	46.9%	10 – 85	12/13/2024 02:51	
Nitrobenzene-d5	4165-60-0	71.9%	32 – 125	12/12/2024 04:57	
Nitrobenzene-d5	4165-60-0	85%	32 – 125	12/13/2024 02:51	
Phenol-d5	4165-62-2	32.9%	7 – 56	12/12/2024 04:57	
Phenol-d5	4165-62-2	41%	7 – 56	12/13/2024 02:51	
Terphenyl-d14	98904-43-9	34.8*%	41 – 145	12/12/2024 04:57	12
Terphenyl-d14	98904-43-9	48.3%	41 – 145	12/13/2024 02:51	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	10.0	2.2	SW846 8260D	10	12/13/2024 01:30	BST	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	10.0	3.4	SW846 8260D	10	12/13/2024 01:30	BST	A

Results

Client Sample ID	MW-22S	Collected	12/09/2024 16:45
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	10.0	3.3	SW846 8260D	10	12/13/2024 01:30	BST	A
1,1-Dichloroethane	ND	ND	ug/L	10.0	2.8	SW846 8260D	10	12/13/2024 01:30	BST	A
1,1-Dichloroethene	ND	ND	ug/L	10.0	2.9	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	20.0	9.3	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2,3-Trichloropropane	ND	ND	ug/L	20.0	6.0	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	20.0	8.2	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2,4-Trimethylbenzene	7.0J	J	ug/L	10.0	2.5	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	70.0	15.0	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2-Dibromoethane	ND	ND	ug/L	10.0	2.8	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2-Dichlorobenzene	ND	ND	ug/L	10.0	3.8	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2-Dichloroethane	ND	ND	ug/L	10.0	3.2	SW846 8260D	10	12/13/2024 01:30	BST	A
1,2-Dichloropropane	ND	ND	ug/L	10.0	2.4	SW846 8260D	10	12/13/2024 01:30	BST	A
1,3,5-Trimethylbenzene	2.9J	J	ug/L	10.0	2.0	SW846 8260D	10	12/13/2024 01:30	BST	A
1,3-Dichlorobenzene	ND	ND	ug/L	10.0	2.5	SW846 8260D	10	12/13/2024 01:30	BST	A
1,4-Dichlorobenzene	ND	ND	ug/L	10.0	2.7	SW846 8260D	10	12/13/2024 01:30	BST	A
2-Butanone	ND	ND	ug/L	100	18.0	SW846 8260D	10	12/13/2024 01:30	BST	A
2-Hexanone	ND	ND	ug/L	50.0	13.0	SW846 8260D	10	12/13/2024 01:30	BST	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	50.0	15.0	SW846 8260D	10	12/13/2024 01:30	BST	A
Acetone	ND	ND	ug/L	100	31.0	SW846 8260D	10	12/13/2024 01:30	BST	A
Benzene	885		ug/L	10.0	2.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Bromochloromethane	ND	ND	ug/L	10.0	3.2	SW846 8260D	10	12/13/2024 01:30	BST	A
Bromodichloromethane	ND	ND	ug/L	10.0	2.7	SW846 8260D	10	12/13/2024 01:30	BST	A
Bromoform	ND	ND	ug/L	10.0	4.0	SW846 8260D	10	12/13/2024 01:30	BST	A
Bromomethane	ND	ND	ug/L	10.0	3.9	SW846 8260D	10	12/13/2024 01:30	BST	A
Carbon Disulfide	2.8J	J	ug/L	10.0	2.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Carbon Tetrachloride	ND	ND	ug/L	10.0	3.1	SW846 8260D	10	12/13/2024 01:30	BST	A
Chlorobenzene	ND	ND	ug/L	10.0	1.9	SW846 8260D	10	12/13/2024 01:30	BST	A
Chlorodibromomethane	ND	ND	ug/L	10.0	4.5	SW846 8260D	10	12/13/2024 01:30	BST	A
Chloroethane	ND	ND	ug/L	10.0	3.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Chloroform	ND	ND	ug/L	10.0	2.1	SW846 8260D	10	12/13/2024 01:30	BST	A
Chloromethane	ND	ND	ug/L	10.0	3.1	SW846 8260D	10	12/13/2024 01:30	BST	A
cis-1,2-Dichloroethene	ND	ND	ug/L	10.0	3.2	SW846 8260D	10	12/13/2024 01:30	BST	A
cis-1,3-Dichloropropene	ND	ND	ug/L	10.0	3.1	SW846 8260D	10	12/13/2024 01:30	BST	A
Cyclohexane	ND	ND	ug/L	10.0	2.9	SW846 8260D	10	12/13/2024 01:30	BST	A
Dichlorodifluoromethane	ND	ND	ug/L	10.0	3.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Ethylbenzene	10.2		ug/L	10.0	3.4	SW846 8260D	10	12/13/2024 01:30	BST	A
Freon 113	ND	ND	ug/L	10.0	2.6	SW846 8260D	10	12/13/2024 01:30	BST	A
Isopropylbenzene	ND	ND	ug/L	10.0	2.2	SW846 8260D	10	12/13/2024 01:30	BST	A
Methyl acetate	ND	ND	ug/L	20.0	3.2	SW846 8260D	10	12/13/2024 01:30	BST	A
Methyl cyclohexane	ND	ND	ug/L	10.0	3.0	SW846 8260D	10	12/13/2024 01:30	BST	A
Methyl t-Butyl Ether	ND	ND	ug/L	10.0	3.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Methylene Chloride	ND	ND	ug/L	10.0	4.5	SW846 8260D	10	12/13/2024 01:30	BST	A
mp-Xylene	12.4J	J	ug/L	20.0	5.2	SW846 8260D	10	12/13/2024 01:30	BST	A
o-Xylene	19.4		ug/L	10.0	3.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Styrene	5.8J	J	ug/L	10.0	2.4	SW846 8260D	10	12/13/2024 01:30	BST	A
Tetrachloroethene	ND	ND	ug/L	10.0	3.5	SW846 8260D	10	12/13/2024 01:30	BST	A
Toluene	5.8J	J	ug/L	10.0	2.3	SW846 8260D	10	12/13/2024 01:30	BST	A

Results

Client Sample ID	MW-22S	Collected	12/09/2024 16:45
Lab Sample ID	3391293009	Lab Receipt	12/10/2024 09:02

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	31.8		ug/L	30.0	6.6	SW846 8260D	10	12/13/2024 01:30	BST	A
trans-1,2-Dichloroethene	ND	ND	ug/L	10.0	2.6	SW846 8260D	10	12/13/2024 01:30	BST	A
trans-1,3-Dichloropropene	ND	ND	ug/L	10.0	2.9	SW846 8260D	10	12/13/2024 01:30	BST	A
Trichloroethene	ND	ND	ug/L	10.0	3.3	SW846 8260D	10	12/13/2024 01:30	BST	A
Trichlorofluoromethane	ND	ND	ug/L	10.0	2.4	SW846 8260D	10	12/13/2024 01:30	BST	A
Vinyl Chloride	ND	ND	ug/L	10.0	3.0	SW846 8260D	10	12/13/2024 01:30	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/13/2024 01:30	
4-Bromofluorobenzene	460-00-4	97.7%	79 – 114	12/13/2024 01:30	
Dibromofluoromethane	1868-53-7	101%	78 – 116	12/13/2024 01:30	
Toluene-d8	2037-26-5	99%	76 – 127	12/13/2024 01:30	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/17/2024 14:03	RAG	I
Alkalinity, Total	106	4	mg/L	5	5	SM2320B-2011	1	12/12/2024 19:35	KMV	I
Chloride	92.2		mg/L	2.0	0.88	SW846 9056A	2	12/10/2024 20:39	J1W	I
Nitrate-N	0.39J	J	mg/L	1.0	0.32	SW846 9056A	2	12/10/2024 20:39	J1W	I
pH	8.46	5	pH_Units			S4500HB-11	1	12/12/2024 19:35	KMV	I
Specific Conductance	2090		umhos/cm	5	0.1	SW846 9050A	1	12/10/2024 17:34	LMD	I
Sulfate	611		mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 12:00	J1W	I
Total Dissolved Solids	1060		mg/L	25	25	SM2540C-15	1	12/11/2024 16:05	RAG	I
Turbidity	12		NTU	0.30	0.30	SM2130B-2011	1	12/10/2024 14:22	NPF	I

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391293001	MW-39	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391293002	MW-40	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391293003	MW-40-DUP	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391293004	MW-41	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391293005	MW-43	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391293006	MW-44	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391293007	TB-40	SW846 8260D	N/A	
3391293008	MW-22D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391293009	MW-22S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1354195	Prep Method	SW846 7470A
Date	12/11/2024 09:19	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Method Blank 3916198 (MB) Created on 12/11/2024 07:32 For QC Batch 1354195

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3916199 (LCS) Created on 12/11/2024 07:32 For QC Batch 1354195

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0019		0.0020	93.5	85 - 115		

Matrix Spike 3916200 (MS) 3391293005 For QC Batch 1354195

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916201 (MSD) 3391293005 For QC Batch 1354195

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0045	0.000052	0.0050	88.8	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0049	0.000052	0.0050	97.2	70 - 130	RPD 8.94 (Max-20)	

QC Batch

QC Batch	1354215	Prep Method	SW846 7470A
Date	12/11/2024 09:19	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Method Blank 3916264 (MB) Created on 12/11/2024 08:35 For QC Batch 1354215

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3916265 (LCS) Created on 12/11/2024 08:35 For QC Batch 1354215

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0019		0.0020	94.5	85 - 115		

Matrix Spike 3916266 (MS) 3391293008 For QC Batch 1354215

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916267 (MSD) 3391293008 For QC Batch 1354215

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0046	0.000042	0.0050	91.6	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0047	0.000042	0.0050	93.6	70 - 130	RPD 2.14 (Max-20)	

QC Batch

QC Batch	1354227	Prep Method	SW846 3015A
Date	12/11/2024 11:10	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	

Matrix Spike 3916295 (MS) 3391334003 (non-Project Sample) For QC Batch 1354227

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916296 (MSD) 3391334003 (non-Project Sample) For QC Batch 1354227

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Calcium, Total	7440-70-2	MS	26.2	25.20	1.10	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	26.1	25.20	1.10	NC	75 - 125	RPD 0.51 (Max-20)	
Iron, Total	7439-89-6	MS	89.8	89.90	1.10	NC	75 - 125		
Iron, Total	7439-89-6	MSD	90.3	89.90	1.10	NC	75 - 125	RPD 0.55 (Max-20)	
Magnesium, Total	7439-95-4	MS	9.9	8.70	1.10	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	9.8	8.70	1.10	NC	75 - 125	RPD 0.35 (Max-20)	
Manganese, Total	7439-96-5	MS	22	22.20	0.11	NC	75 - 125		
Manganese, Total	7439-96-5	MSD	22	22.20	0.11	NC	75 - 125	RPD 0.19 (Max-20)	
Potassium, Total	7440-09-7	MS	26.2	2.90	22.20	105	75 - 125		
Potassium, Total	7440-09-7	MSD	25.9	2.90	22.20	104	75 - 125	RPD 1.31 (Max-20)	
Sodium, Total	7440-23-5	MS	58.7	35.50	22.20	105	75 - 125		
Sodium, Total	7440-23-5	MSD	58.5	35.50	22.20	104	75 - 125	RPD 0.37 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Method Blank 3916293 (MB) Created on 12/11/2024 08:56 For QC Batch 1354227

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3916294 (LCS) Created on 12/11/2024 08:56 For QC Batch 1354227

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	106	80 - 120		
Antimony, Total	7440-36-0	LCS	0.24		0.22	109	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	104	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	110	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	110	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	108	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	102	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	112	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	109	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	103	80 - 120		
Iron, Total	7439-89-6	LCS	1.2		1.10	109	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	111	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	110	80 - 120		
Manganese, Total	7439-96-5	LCS	0.11		0.11	103	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	108	80 - 120		
Potassium, Total	7440-09-7	LCS	23.3		22.20	105	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Selenium, Total	7782-49-2	LCS	1.2		1.10	107	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	109	80 - 120		
Sodium, Total	7440-23-5	LCS	23.9		22.20	108	80 - 120		
Thallium, Total	7440-28-0	LCS	0.11		0.11	98.2	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.061		0.0560	110	80 - 120		
Zinc, Total	7440-66-6	LCS	0.59		0.56	106	80 - 120		

QC Batch

QC Batch	1354228	Prep Method	SW846 3015A
Date	12/11/2024 11:54	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Method Blank 3916297 (MB) Created on 12/11/2024 08:58 For QC Batch 1354228

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3916298 (LCS) Created on 12/11/2024 08:58 For QC Batch 1354228

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.2		1.10	104	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.24		0.22	107	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.11		0.11	102	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	108	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.24		0.22	108	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	107	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.1		1.10	97.9	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	108	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	109	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.2		1.10	104	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	108	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	109	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	109	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	118	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	108	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	23.8		22.20	107	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	105	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	108	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	24.5		22.20	110	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.12		0.11	104	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.06		0.0560	109	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.58		0.56	105	80 - 120		

Matrix Spike 3916299 (MS) 3391293005 For QC Batch 1354228

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916300 (MSD) 3391293005 For QC Batch 1354228

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.2	0	1.10	108	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.2	0	1.10	105	75 - 125	RPD 2.48 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.25	0	0.22	110	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.25	0	0.22	113	75 - 125	RPD 2.15 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0.0030	0.11	104	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.11	0.0030	0.11	98.7	75 - 125	RPD 4.72 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.5	0.31	1.10	109	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.5	0.31	1.10	107	75 - 125	RPD 1.33 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.25	0.000330	0.22	111	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.24	0.000330	0.22	109	75 - 125	RPD 1.63 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.12	0	0.11	108	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cadmium, Dissolved	7440-43-9_D	MSD	0.12	0	0.11	107	75 - 125	RPD 1.11 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	147	147	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	147	147	1.10	NC	75 - 125	RPD 0.10 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.12	0.0066	0.11	106	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0066	0.11	106	75 - 125	RPD 0.27 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.2	0.000330	1.10	107	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.2	0.000330	1.10	106	75 - 125	RPD 0.86 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.2	0.0010	1.10	108	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0010	1.10	106	75 - 125	RPD 1.41 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	7	5.80	1.10	NC	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	7	5.80	1.10	NC	75 - 125	RPD 0.29 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.12	0	0.11	105	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.11	0	0.11	102	75 - 125	RPD 2.22 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	42.7	41.80	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	42.2	41.80	1.10	NC	75 - 125	RPD 1.08 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.6	0.47	0.11	NC	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.6	0.47	0.11	NC	75 - 125	RPD 0.54 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.2	0.0034	1.10	106	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.2	0.0034	1.10	106	75 - 125	RPD 0.76 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	45.7	21.30	22.20	110	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	45.1	21.30	22.20	107	75 - 125	RPD 1.19 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.2	0.0014	1.10	111	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.2	0.0014	1.10	108	75 - 125	RPD 2.32 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	112	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	111	75 - 125	RPD 0.90 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	53.3	29.10	22.20	109	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	52.8	29.10	22.20	107	75 - 125	RPD 0.83 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.12	0.0020	0.11	107	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.12	0.0020	0.11	108	75 - 125	RPD 0.37 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.062	0	0.0560	111	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.06	0	0.0560	109	75 - 125	RPD 1.82 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.56	0	0.56	101	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.56	0	0.56	100	75 - 125	RPD 0.88 (Max-20)	

QC Batch

QC Batch	1354229	Prep Method	SW846 3015A
Date	12/11/2024 12:54	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391293009

Matrix Spike 3916303 (MS) 3391358004 (non-Project Sample) For QC Batch 1354229

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916304 (MSD) 3391358004 (non-Project Sample) For QC Batch 1354229

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chromium, Total	7440-47-3	MS	0.13	0.01	0.11	112	75 - 125		
Chromium, Total	7440-47-3	MSD	0.17	0.01	0.11	142*	75 - 125	RPD 22.20* (Max-20)	
Copper, Total	7440-50-8	MS	1.2	0.0043	1.10	104	75 - 125		
Copper, Total	7440-50-8	MSD	1.2	0.0043	1.10	104	75 - 125	RPD 0.44 (Max-20)	
Manganese, Total	7439-96-5	MS	0.48	0.35	0.11	119	75 - 125		
Manganese, Total	7439-96-5	MSD	0.45	0.35	0.11	92	75 - 125	RPD 6.34 (Max-20)	

Method Blank 3916301 (MB) Created on 12/11/2024 09:01 For QC Batch 1354229

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	0.0078J	mg/L	0.022	J
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3916302 (LCS) Created on 12/11/2024 09:01 For QC Batch 1354229

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	105	80 - 120		
Antimony, Total	7440-36-0	LCS	0.23		0.22	105	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	105	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	109	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	109	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cadmium, Total	7440-43-9	LCS	0.12		0.11	107	80 - 120		
Calcium, Total	7440-70-2	LCS	1.2		1.10	104	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	108	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	107	80 - 120		
Copper, Total	7440-50-8	LCS	1.2		1.10	105	80 - 120		
Iron, Total	7439-89-6	LCS	1.2		1.10	107	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	109	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	109	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	109	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	109	80 - 120		
Potassium, Total	7440-09-7	LCS	23.3		22.20	105	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	107	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	111	80 - 120		
Sodium, Total	7440-23-5	LCS	23.9		22.20	108	80 - 120		
Thallium, Total	7440-28-0	LCS	0.1		0.11	94.5	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.061		0.0560	109	80 - 120		
Zinc, Total	7440-66-6	LCS	0.6		0.56	108	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1354093	Prep Method	SW846 3510C
Date	12/11/2024 08:45	Analysis Method	SW846 8270E
Tech.	DEC		

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Matrix Spike 3916161 (MS) 3391468002 (non-Project Sample) For QC Batch 1354093

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	MS	25.4	0	52.10	48.7	18 - 124		
1,4-Dioxane	123-91-1	MS	24.7	0	52.10	47.4	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	MS	68.1	0	104	65.4	36 - 133		
2,4,5-Trichlorophenol	95-95-4	MS	75.7	0	104	72.7	44 - 148		
2,4,6-Trichlorophenol	88-06-2	MS	71.5	0	104	68.6	41 - 148		
2,4-Dichlorophenol	120-83-2	MS	72.9	0	104	69.9	44 - 142		
2,4-Dimethylphenol	105-67-9	MS	89.5	0	104	85.9	46 - 141		
2,4-Dinitrophenol	51-28-5	MS	68.6	0	104	65.8	21 - 140		
2,4-Dinitrotoluene	121-14-2	MS	52.3	0	52.10	100	49 - 138		
2,6-Dinitrotoluene	606-20-2	MS	55.6	0	52.10	107	49 - 136		
2-Chloronaphthalene	91-58-7	MS	34.7	0	52.10	66.7	27 - 125		
2-Chlorophenol	95-57-8	MS	67	0	104	64.3	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	MS	79.2	0	104	76	46 - 133		
2-Methylnaphthalene	91-57-6	MS	32.1	0	52.10	61.6	22 - 124		
2-Nitroaniline	88-74-4	MS	52.2	0	52.10	100	55 - 138		
2-Nitrophenol	88-75-5	MS	75.1	0	104	72.1	46 - 140		
3,3-Dichlorobenzidine	91-94-1	MS	35.5	0	104	34*	38 - 115		
3-Nitroaniline	99-09-2	MS	45.8	0	52.10	88	60 - 123		
4-Bromophenyl-phenylether	101-55-3	MS	47.1	0	52.10	90.5	46 - 128		
4-Chloro-3-methylphenol	59-50-7	MS	86.1	0	104	82.6	46 - 144		
4-Chloroaniline	106-47-8	MS	30.5	0	52.10	58.5	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	MS	44	0	52.10	84.5	38 - 128		
4-Nitroaniline	100-01-6	MS	44	0	52.10	84.5	53 - 124		
4-Nitrophenol	100-02-7	MS	49.7	0	104	47.7	5 - 108		
Acenaphthene	83-32-9	MS	41	0	52.10	78.6	36 - 130		
Acenaphthylene	208-96-8	MS	37.8	0	52.10	72.6	39 - 130		
Acetophenone	98-86-2	MS	43.5	0	52.10	83.5	49 - 117		
Anthracene	120-12-7	MS	51.4	0	52.10	98.6	48 - 133		
Atrazine	1912-24-9	MS	55.6	0	52.10	107	44 - 149		
Benzaldehyde	100-52-7	MS	43	0	52.10	82.5	38 - 145		
Benzo(a)anthracene	56-55-3	MS	47.9	0	52.10	92	51 - 127		
Benzo(a)pyrene	50-32-8	MS	47.2	0	52.10	90.6	53 - 127		
Benzo(b)fluoranthene	205-99-2	MS	47.2	0	52.10	90.7	53 - 131		
Benzo(g,h,i)perylene	191-24-2	MS	45.8	0	52.10	88	54 - 131		
Benzo(k)fluoranthene	207-08-9	MS	46.9	0	52.10	90	52 - 130		
Biphenyl	92-52-4	MS	34.8	0	52.10	66.8	30 - 132		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
bis(2-Chloroethoxy)methane	111-91-1	MS	49.6	0	52.10	95.2	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	MS	44.3	0	52.10	85	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	MS	40.1	0	52.10	77.1	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	MS	51.5	0	52.10	98.9	41 - 145		
Butylbenzylphthalate	85-68-7	MS	59.1	0	52.10	114	50 - 137		
Caprolactam	105-60-2	MS	22.9	0	52.10	44	5 - 118		
Carbazole	86-74-8	MS	50.6	0	52.10	97.1	52 - 139		
Chrysene	218-01-9	MS	48.3	0	52.10	92.7	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	MS	46.7	0	52.10	89.7	56 - 130		
Dibenzofuran	132-64-9	MS	43.2	0	52.10	83	39 - 133		
Diethylphthalate	84-66-2	MS	51.2	0	52.10	98.3	45 - 132		
Dimethylphthalate	131-11-3	MS	48.9	0	52.10	93.8	44 - 131		
Di-n-Butylphthalate	84-74-2	MS	54	0.32	52.10	103	47 - 135		
Di-n-Octylphthalate	117-84-0	MS	55.1	0	52.10	106	35 - 141		
Fluoranthene	206-44-0	MS	50.3	0	52.10	96.5	49 - 132		
Fluorene	86-73-7	MS	46.8	0	52.10	89.9	42 - 131		
Hexachlorobenzene	118-74-1	MS	46.8	0	52.10	89.8	59 - 109		
Hexachlorobutadiene	87-68-3	MS	21.7	0	52.10	41.6	5 - 126		
Hexachlorocyclopentadiene	77-47-4	MS	14	0	52.10	26.9	5 - 97		
Hexachloroethane	67-72-1	MS	20	0	52.10	38.4	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	MS	44.1	0	52.10	84.6	55 - 126		
Isophorone	78-59-1	MS	48.5	0	52.10	93	45 - 129		
mp-Cresol	108394/106445	MS	76.1	0	104	73	28 - 128		
Naphthalene	91-20-3	MS	31.8	0	52.10	61.1	21 - 123		
Nitrobenzene	98-95-3	MS	45.1	0	52.10	86.6	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	MS	47.8	0	52.10	91.8	46 - 133		
N-Nitrosodiphenylamine	86-30-6	MS	48.7	0	52.10	93.5	58 - 125		
o-Cresol	95-48-7	MS	74.6	0	104	71.6	34 - 136		
Pentachlorophenol	87-86-5	MS	70.8	0	104	68	41 - 149		
Phenanthrene	85-01-8	MS	51.2	0	52.10	98.4	46 - 131		
Phenol	108-95-2	MS	44.5	0	104	42.7	5 - 111		
Pyrene	129-00-0	MS	53.4	0	52.10	102	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	77.3	104	74.2	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	44.4	52.10	85.2	24 - 116	
2-Fluorophenol	367-12-4	MS	46.2	104	44.4	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	47.3	52.10	90.9	32 - 125	
Phenol-d5	4165-62-2	MS	41.1	104	39.4	7 - 56	
Terphenyl-d14	98904-43-9	MS	33	52.10	63.4	41 - 145	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

Duplicate 3916162 (DUP) 3391468005 (non-Project Sample) For QC Batch 1354093

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	DUP	0	0	RPD	0	(Max-30)	ND
1,4-Dioxane	123-91-1	DUP	0	0	RPD	0	(Max-30)	ND
2,3,4,6-Tetrachlorophenol	58-90-2	DUP	0	0	RPD	0	(Max-30)	ND
2,4,5-Trichlorophenol	95-95-4	DUP	0	0	RPD	0	(Max-23)	ND
2,4,6-Trichlorophenol	88-06-2	DUP	0	0	RPD	0	(Max-23)	ND
2,4-Dichlorophenol	120-83-2	DUP	0	0	RPD	0	(Max-30)	ND
2,4-Dimethylphenol	105-67-9	DUP	0	0	RPD	0	(Max-30)	ND
2,4-Dinitrophenol	51-28-5	DUP	0	0	RPD	0	(Max-30)	ND
2,4-Dinitrotoluene	121-14-2	DUP	0	0	RPD	0	(Max-22)	ND
2,6-Dinitrotoluene	606-20-2	DUP	0	0	RPD	0	(Max-30)	ND
2-Chloronaphthalene	91-58-7	DUP	0	0	RPD	0	(Max-30)	ND
2-Chlorophenol	95-57-8	DUP	0	0	RPD	0	(Max-30)	ND
2-Methyl-4,6-dinitrophenol	534-52-1	DUP	0	0	RPD	0	(Max-30)	ND
2-Methylnaphthalene	91-57-6	DUP	0	0	RPD	0	(Max-30)	ND
2-Nitroaniline	88-74-4	DUP	0	0	RPD	0	(Max-30)	ND
2-Nitrophenol	88-75-5	DUP	0	0	RPD	0	(Max-30)	ND
3,3-Dichlorobenzidine	91-94-1	DUP	0	0	RPD	0	(Max-30)	ND
3-Nitroaniline	99-09-2	DUP	0	0	RPD	0	(Max-30)	ND
4-Bromophenyl-phenylether	101-55-3	DUP	0	0	RPD	0	(Max-30)	ND
4-Chloro-3-methylphenol	59-50-7	DUP	0	0	RPD	0	(Max-30)	ND
4-Chloroaniline	106-47-8	DUP	0	0	RPD	0	(Max-30)	ND
4-Chlorophenyl-phenylether	7005-72-3	DUP	0	0	RPD	0	(Max-30)	ND
4-Nitroaniline	100-01-6	DUP	0	0	RPD	0	(Max-30)	ND
4-Nitrophenol	100-02-7	DUP	0	0	RPD	0	(Max-30)	ND
Acenaphthene	83-32-9	DUP	0	0	RPD	0	(Max-30)	ND
Acenaphthylene	208-96-8	DUP	0	0	RPD	0	(Max-30)	ND
Acetophenone	98-86-2	DUP	0	0	RPD	0	(Max-30)	ND
Anthracene	120-12-7	DUP	0	0	RPD	0	(Max-30)	ND
Atrazine	1912-24-9	DUP	0	0	RPD	0	(Max-30)	ND
Benzaldehyde	100-52-7	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(a)anthracene	56-55-3	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(a)pyrene	50-32-8	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(b)fluoranthene	205-99-2	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(g,h,i)perylene	191-24-2	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(k)fluoranthene	207-08-9	DUP	0	0	RPD	0	(Max-30)	ND
Biphenyl	92-52-4	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Chloroethoxy)methane	111-91-1	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Chloroethyl)ether	111-44-4	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Chloroisopropyl)ether	108-60-1	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Ethylhexyl)phthalate	117-81-7	DUP	0	0	RPD	0	(Max-30)	ND
Butylbenzylphthalate	85-68-7	DUP	0	0	RPD	0	(Max-30)	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
Caprolactam	105-60-2	DUP	0	1.5906	RPD	200*	(Max-30)	ND
Carbazole	86-74-8	DUP	0	0	RPD	0	(Max-30)	ND
Chrysene	218-01-9	DUP	0	0	RPD	0	(Max-30)	ND
Dibenzo(a,h)anthracene	53-70-3	DUP	0	0	RPD	0	(Max-30)	ND
Dibenzofuran	132-64-9	DUP	0	0	RPD	0	(Max-30)	ND
Diethylphthalate	84-66-2	DUP	0	0	RPD	0	(Max-30)	ND
Dimethylphthalate	131-11-3	DUP	0	0	RPD	0	(Max-30)	ND
Di-n-Butylphthalate	84-74-2	DUP	0.5286	0.3197	RPD	49.30*	(Max-30)	J
Di-n-Octylphthalate	117-84-0	DUP	0	0	RPD	0	(Max-30)	ND
Fluoranthene	206-44-0	DUP	0	0	RPD	0	(Max-30)	ND
Fluorene	86-73-7	DUP	0	0	RPD	0	(Max-30)	ND
Hexachlorobenzene	118-74-1	DUP	0	0	RPD	0	(Max-21)	ND
Hexachlorobutadiene	87-68-3	DUP	0	0	RPD	0	(Max-30)	ND
Hexachlorocyclopentadiene	77-47-4	DUP	0	0	RPD	0	(Max-30)	ND
Hexachloroethane	67-72-1	DUP	0	0	RPD	0	(Max-30)	ND
Indeno(1,2,3-cd)pyrene	193-39-5	DUP	0	0	RPD	0	(Max-30)	ND
Isophorone	78-59-1	DUP	0	0	RPD	0	(Max-30)	ND
mp-Cresol	108394/106445	DUP	0	0	RPD	0	(Max-20)	ND
Naphthalene	91-20-3	DUP	0	0	RPD	0	(Max-30)	ND
Nitrobenzene	98-95-3	DUP	0	0	RPD	0	(Max-19)	ND
N-Nitroso-di-n-propylamine	621-64-7	DUP	0	0	RPD	0	(Max-30)	ND
N-Nitrosodiphenylamine	86-30-6	DUP	0	0	RPD	0	(Max-30)	ND
o-Cresol	95-48-7	DUP	0	0	RPD	0	(Max-23)	ND
Pentachlorophenol	87-86-5	DUP	0	0	RPD	0	(Max-28)	ND
Phenanthrene	85-01-8	DUP	0	0	RPD	0	(Max-30)	ND
Phenol	108-95-2	DUP	0	0	RPD	0	(Max-30)	ND
Pyrene	129-00-0	DUP	0	0	RPD	0	(Max-30)	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	DUP	75	104	72	23 - 131	
2-Fluorobiphenyl	321-60-8	DUP	35.3	52.10	67.9	24 - 116	
2-Fluorophenol	367-12-4	DUP	40.6	104	39	10 - 85	
Nitrobenzene-d5	4165-60-0	DUP	38.6	52.10	74	32 - 125	
Phenol-d5	4165-62-2	DUP	35.8	104	34.4	7 - 56	
Terphenyl-d14	98904-43-9	DUP	26	52.10	49.9	41 - 145	

Method Blank 3916159 (MB) Created on 12/11/2024 06:38 For QC Batch 1354093

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	0.40J	ug/L	3.0	J
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	75.6	100	75.6	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	30	50	60.1	24 - 116	
2-Fluorophenol	367-12-4	BLK	49.5	100	49.5	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	38.7	50	77.4	32 - 125	
Phenol-d5	4165-62-2	BLK	39.2	100	39.2	7 - 56	
Terphenyl-d14	98904-43-9	BLK	35.5	50	70.9	41 - 145	

Lab Control Standard 3916160 (LCS) Created on 12/11/2024 06:38 For QC Batch 1354093

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	20.6		50	41.1	18 - 124		
1,4-Dioxane	123-91-1	LCS	20		50	39.9	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	66.4		100	66.4	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	69.7		100	69.7	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	68.7		100	68.7	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	67.6		100	67.6	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	80.2		100	80.2	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	64.2		100	64.2	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	42		50	83.9	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	45.2		50	90.4	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	27.2		50	54.4	27 - 125		
2-Chlorophenol	95-57-8	LCS	63.5		100	63.5	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	69.3		100	69.3	46 - 133		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Methylnaphthalene	91-57-6	LCS	25.9		50	51.9	22 - 124		
2-Nitroaniline	88-74-4	LCS	43.7		50	87.4	55 - 138		
2-Nitrophenol	88-75-5	LCS	68.6		100	68.6	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	48.7		100	48.7	38 - 115		
3-Nitroaniline	99-09-2	LCS	36.9		50	73.8	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	37.2		50	74.3	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	74.4		100	74.4	46 - 144		
4-Chloroaniline	106-47-8	LCS	27.8		50	55.7	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	34.1		50	68.1	38 - 128		
4-Nitroaniline	100-01-6	LCS	39.6		50	79.2	53 - 124		
4-Nitrophenol	100-02-7	LCS	44.2		100	44.2	5 - 108		
Acenaphthene	83-32-9	LCS	31.9		50	63.8	36 - 130		
Acenaphthylene	208-96-8	LCS	29.2		50	58.5	39 - 130		
Acetophenone	98-86-2	LCS	35.3		50	70.7	49 - 117		
Anthracene	120-12-7	LCS	40.9		50	81.9	48 - 133		
Atrazine	1912-24-9	LCS	41		50	81.9	44 - 149		
Benzaldehyde	100-52-7	LCS	33.6		50	67.2	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	41.5		50	83	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	41.4		50	82.7	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	41.6		50	83.1	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	39.5		50	78.9	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	41.6		50	83.2	52 - 130		
Biphenyl	92-52-4	LCS	27.2		50	54.4	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	40.9		50	81.8	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	35.5		50	71.1	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	34.1		50	68.2	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	47.1		50	94.2	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	49.7		50	99.4	50 - 137		
Caprolactam	105-60-2	LCS	17.8		50	35.6	5 - 118		
Carbazole	86-74-8	LCS	40.3		50	80.6	52 - 139		
Chrysene	218-01-9	LCS	42.2		50	84.4	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	39.5		50	79.1	56 - 130		
Dibenzofuran	132-64-9	LCS	33.3		50	66.7	39 - 133		
Diethylphthalate	84-66-2	LCS	40.8		50	81.7	45 - 132		
Dimethylphthalate	131-11-3	LCS	38.7		50	77.4	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	43.6		50	87.2	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	50.2		50	100	35 - 141		
Fluoranthene	206-44-0	LCS	39.9		50	79.8	49 - 132		
Fluorene	86-73-7	LCS	36.6		50	73.1	42 - 131		
Hexachlorobenzene	118-74-1	LCS	36.3		50	72.6	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	18.3		50	36.6	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	10.7		50	21.3	5 - 97		
Hexachloroethane	67-72-1	LCS	17.3		50	34.6	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	37.2		50	74.5	55 - 126		
Isophorone	78-59-1	LCS	38.9		50	77.8	45 - 129		
mp-Cresol	108394/106445	LCS	68.1		100	68.1	28 - 128		
Naphthalene	91-20-3	LCS	25.8		50	51.7	21 - 123		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrobenzene	98-95-3	LCS	35.6		50	71.3	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	39.5		50	78.9	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	48.5		50	97.1	58 - 125		
o-Cresol	95-48-7	LCS	66.2		100	66.2	34 - 136		
Pentachlorophenol	87-86-5	LCS	65		100	65	41 - 149		
Phenanthrene	85-01-8	LCS	39.3		50	78.7	46 - 131		
Phenol	108-95-2	LCS	39.6		100	39.6	5 - 111		
Pyrene	129-00-0	LCS	43.9		50	87.7	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	70.8	100	70.8	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	35.5	50	70.9	24 - 116	
2-Fluorophenol	367-12-4	LCS	44.4	100	44.4	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	36.9	50	73.8	32 - 125	
Phenol-d5	4165-62-2	LCS	36.5	100	36.5	7 - 56	
Terphenyl-d14	98904-43-9	LCS	32.4	50	64.8	41 - 145	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1354784	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391293002 3391293003 3391293004 3391293007 3391293009

Matrix Spike 3917497 (MS) 3391646002 (non-Project Sample) For QC Batch 1354784

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917498 (MSD) 3391646002 (non-Project Sample) For QC Batch 1354784

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	22.8	0	20	114	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	23.1	0	20	115	66 - 130	RPD 1.06 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	20.2	0	20	101	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	20.7	0	20	104	74 - 135	RPD 2.87 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	20.9	0	20	104	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	20.7	0	20	104	82 - 126	RPD 0.79 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	21.6	0	20	108	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	22.2	0	20	111	78 - 124	RPD 2.62 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	23.4	0	20	117	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	24.2	0	20	121	63 - 128	RPD 3.31 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	20.5	0	20	103	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	21	0	20	105	61 - 126	RPD 2.38 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	21.7	0	20	109	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	21.8	0	20	109	75 - 132	RPD 0.46 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	21.4	0	20	107	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.7	0	20	114	67 - 123	RPD 6.07 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	23.3	0	20	116	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	24	0	20	120	76 - 125	RPD 3.01 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	19.2	0	20	96	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	19.5	0	20	97.6	59 - 133	RPD 1.64 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	20.3	0	20	101	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	19.6	0	20	98	80 - 124	RPD 3.38 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	21.2	0	20	106	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	21.8	0	20	109	82 - 118	RPD 2.50 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	20	0	20	100	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	20.5	0	20	102	70 - 133	RPD 2.11 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	21.6	0	20	108	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	22.2	0	20	111	81 - 127	RPD 2.56 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	23.3	0	20	117	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	24.1	0	20	121	76 - 125	RPD 3.34 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	21.4	0	20	107	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	21.5	0	20	108	81 - 118	RPD 0.67 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	21.1	0	20	105	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	21.2	0	20	106	81 - 116	RPD 0.47 (Max-15)	
2-Butanone	78-93-3	MS	95.9	0	100	95.9	50 - 152		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Butanone	78-93-3	MSD	96.1	0	100	96.1	50 - 152	RPD 0.28 (Max-16)	
2-Hexanone	591-78-6	MS	98.3	0	100	98.3	65 - 154		
2-Hexanone	591-78-6	MSD	100	0	100	100	65 - 154	RPD 1.95 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	98.4	0	100	98.4	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	101	0	100	101	71 - 146	RPD 2.32 (Max-16)	
Acetone	67-64-1	MS	85.8	0	100	85.8	40 - 151		
Acetone	67-64-1	MSD	90.5	0	100	90.5	40 - 151	RPD 5.27 (Max-40)	
Benzene	71-43-2	MS	21.7	0	20	108	80 - 124		
Benzene	71-43-2	MSD	21.9	0	20	109	80 - 124	RPD 0.94 (Max-26)	
Bromochloromethane	74-97-5	MS	22.3	0	20	111	73 - 117		
Bromochloromethane	74-97-5	MSD	21.9	0	20	109	73 - 117	RPD 1.77 (Max-19)	
Bromodichloromethane	75-27-4	MS	22.4	0	20	112	79 - 126		
Bromodichloromethane	75-27-4	MSD	22.6	0	20	113	79 - 126	RPD 1.08 (Max-16)	
Bromoform	75-25-2	MS	19.9	0	20	99.3	70 - 123		
Bromoform	75-25-2	MSD	20.2	0	20	101	70 - 123	RPD 1.64 (Max-16)	
Bromomethane	74-83-9	MS	18.7	0	20	93.5	45 - 148		
Bromomethane	74-83-9	MSD	16.7	0	20	83.7	45 - 148	RPD 11 (Max-26)	
Carbon Disulfide	75-15-0	MS	21.6	0	20	108	57 - 131		
Carbon Disulfide	75-15-0	MSD	22.3	0	20	111	57 - 131	RPD 3.17 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	23.7	0	20	118	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	23.9	0	20	119	62 - 132	RPD 0.76 (Max-17)	
Chlorobenzene	108-90-7	MS	21.2	0	20	106	85 - 117		
Chlorobenzene	108-90-7	MSD	21.1	0	20	105	85 - 117	RPD 0.37 (Max-15)	
Chlorodibromomethane	124-48-1	MS	21.3	0	20	106	77 - 122		
Chlorodibromomethane	124-48-1	MSD	20.8	0	20	104	77 - 122	RPD 2.32 (Max-15)	
Chloroethane	75-00-3	MS	19.2	0	20	96.1	51 - 142		
Chloroethane	75-00-3	MSD	18.8	0	20	93.8	51 - 142	RPD 2.45 (Max-24)	
Chloroform	67-66-3	MS	21.4	0	20	107	78 - 122		
Chloroform	67-66-3	MSD	21.7	0	20	108	78 - 122	RPD 0.95 (Max-16)	
Chloromethane	74-87-3	MS	19.5	0	20	97.6	38 - 156		
Chloromethane	74-87-3	MSD	19.6	0	20	97.9	38 - 156	RPD 0.32 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	23.2	0.71	20	112	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	23.9	0.71	20	116	78 - 125	RPD 2.91 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	20.9	0	20	105	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	21.1	0	20	106	81 - 121	RPD 1.15 (Max-16)	
Cyclohexane	110-82-7	MS	23.4	0	20	117	66 - 130		
Cyclohexane	110-82-7	MSD	23.8	0	20	119	66 - 130	RPD 1.62 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	21.3	0	20	107	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	19.9	0	20	99.4	17 - 166	RPD 6.87 (Max-24)	
Ethylbenzene	100-41-4	MS	22.8	0	20	114	80 - 124		
Ethylbenzene	100-41-4	MSD	23	0	20	115	80 - 124	RPD 0.50 (Max-19)	
Freon 113	76-13-1	MS	23.7	0	20	119	50 - 130		
Freon 113	76-13-1	MSD	24.7	0	20	124	50 - 130	RPD 4.16 (Max-26)	
Isopropylbenzene	98-82-8	MS	25.3	0	20	127	73 - 129		
Isopropylbenzene	98-82-8	MSD	26.3	0	20	131*	73 - 129	RPD 3.69 (Max-18)	
Methyl acetate	79-20-9	MS	18.1	0	20	90.5	70 - 130		
Methyl acetate	79-20-9	MSD	18.2	0	20	90.9	70 - 130	RPD 0.42 (Max-18)	
Methyl cyclohexane	108-87-2	MS	22.8	0	20	114	70 - 130		
Methyl cyclohexane	108-87-2	MSD	23.5	0	20	117	70 - 130	RPD 2.76 (Max-18)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl t-Butyl Ether	1634-04-4	MS	21	0	20	105	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	21.2	0	20	106	69 - 115	RPD 0.95 (Max-20)	
Methylene Chloride	75-09-2	MS	21.7	0	20	109	76 - 121		
Methylene Chloride	75-09-2	MSD	22.1	0	20	111	76 - 121	RPD 1.80 (Max-17)	
mp-Xylene	108383/106423	MS	45.7	0	40	114	79 - 125		
mp-Xylene	108383/106423	MSD	45.2	0	40	113	79 - 125	RPD 1.21 (Max-21)	
o-Xylene	95-47-6	MS	23.1	0	20	115	79 - 124		
o-Xylene	95-47-6	MSD	22.9	0	20	114	79 - 124	RPD 1.01 (Max-19)	
Styrene	100-42-5	MS	20.5	0	20	103	79 - 123		
Styrene	100-42-5	MSD	20.9	0	20	104	79 - 123	RPD 1.63 (Max-16)	
Tetrachloroethene	127-18-4	MS	20.1	0	20	101	72 - 124		
Tetrachloroethene	127-18-4	MSD	19.4	0	20	96.9	72 - 124	RPD 3.70 (Max-38)	
Toluene	108-88-3	MS	21.9	0	20	109	80 - 125		
Toluene	108-88-3	MSD	21.8	0	20	109	80 - 125	RPD 0.37 (Max-20)	
Total Xylenes	1330-20-7	MS	68.8	0	60	115	79 - 125		
Total Xylenes	1330-20-7	MSD	68	0	60	113	79 - 125	RPD 1.14 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	22.4	0	20	112	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	23	0	20	115	71 - 122	RPD 2.63 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.5	0	20	108	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	21.2	0	20	106	78 - 126	RPD 1.67 (Max-18)	
Trichloroethene	79-01-6	MS	22	0	20	110	77 - 124		
Trichloroethene	79-01-6	MSD	21.9	0	20	110	77 - 124	RPD 0.56 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	22.1	0	20	110	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	22.3	0	20	111	38 - 123	RPD 1 (Max-23)	
Vinyl Chloride	75-01-4	MS	20.6	0	20	103	27 - 138		
Vinyl Chloride	75-01-4	MSD	21.3	0	20	107	27 - 138	RPD 3.53 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.7	30	106	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	31.8	30	106	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	28.9	30	96.4	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	29.3	30	97.7	79 - 114	
Dibromofluoromethane	1868-53-7	MS	31.2	30	104	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	30.2	30	101	78 - 116	
Toluene-d8	2037-26-5	MS	30.3	30	101	76 - 127	
Toluene-d8	2037-26-5	MSD	29.7	30	98.8	76 - 127	

Method Blank 3917495 (MB) Created on 12/12/2024 19:58 For QC Batch 1354784

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.6	30	102	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	28.9	30	96.5	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.9	30	96.3	78 - 116	
Toluene-d8	2037-26-5	BLK	29.9	30	99.6	76 - 127	

Lab Control Standard 3917496 (LCS) Created on 12/12/2024 19:58 For QC Batch 1354784

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	20.2		20	101	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.4		20	107	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	20.9		20	104	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.9		20	99.6	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.1		20	105	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	21.8		20	109	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22.6		20	113	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.4		20	117	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	23.1		20	115	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	21.3		20	106	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	20.2		20	101	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.7		20	109	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.3		20	96.4	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.7		20	103	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.8		20	114	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	21.7		20	108	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.2		20	106	81 - 116		
2-Butanone	78-93-3	LCS	104		100	104	50 - 152		
2-Hexanone	591-78-6	LCS	106		100	106	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	71 - 146		
Acetone	67-64-1	LCS	102		100	102	40 - 151		
Benzene	71-43-2	LCS	20.1		20	101	80 - 124		
Bromochloromethane	74-97-5	LCS	21.5		20	108	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.4		20	107	79 - 126		
Bromoform	75-25-2	LCS	20.9		20	105	70 - 123		
Bromomethane	74-83-9	LCS	16.6		20	83.2	45 - 148		
Carbon Disulfide	75-15-0	LCS	20.4		20	102	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	20		20	100	62 - 132		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chlorobenzene	108-90-7	LCS	20.5		20	102	85 - 117		
Chlorodibromomethane	124-48-1	LCS	21		20	105	77 - 122		
Chloroethane	75-00-3	LCS	17.8		20	88.8	51 - 142		
Chloroform	67-66-3	LCS	20.1		20	100	78 - 122		
Chloromethane	74-87-3	LCS	19.1		20	95.7	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21.2		20	106	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.8		20	104	81 - 121		
Cyclohexane	110-82-7	LCS	20.1		20	100	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	19.5		20	97.4	17 - 166		
Ethylbenzene	100-41-4	LCS	21.4		20	107	80 - 124		
Freon 113	76-13-1	LCS	21.2		20	106	50 - 130		
Isopropylbenzene	98-82-8	LCS	24.3		20	121	73 - 129		
Methyl acetate	79-20-9	LCS	20.6		20	103	70 - 130		
Methyl cyclohexane	108-87-2	LCS	20.3		20	101	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.8		20	104	69 - 115		
Methylene Chloride	75-09-2	LCS	21		20	105	76 - 121		
mp-Xylene	108383/106423	LCS	42.6		40	107	79 - 125		
o-Xylene	95-47-6	LCS	22		20	110	79 - 124		
Styrene	100-42-5	LCS	23.1		20	115	79 - 123		
Tetrachloroethene	127-18-4	LCS	18.3		20	91.7	72 - 124		
Toluene	108-88-3	LCS	20.5		20	103	80 - 125		
Total Xylenes	1330-20-7	LCS	64.7		60	108	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.9		20	104	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	21.5		20	108	78 - 126		
Trichloroethene	79-01-6	LCS	19.8		20	98.9	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	20		20	100	38 - 123		
Vinyl Chloride	75-01-4	LCS	20		20	99.8	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	31.1	30	104	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.9	30	99.8	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30.5	30	102	78 - 116	
Toluene-d8	2037-26-5	LCS	30.1	30	100	76 - 127	

QC Batch

QC Batch	1356391	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391293001 3391293004 3391293005 3391293006
3391293008

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Matrix Spike 3919057 (MS) 3392207005 (non-Project Sample) For QC Batch 1356391

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919058 (MSD) 3392207005 (non-Project Sample) For QC Batch 1356391

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	20.4	0	20	102	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	18.4	0	20	91.9	66 - 130	RPD 10.50 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	20.9	0	20	105	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	18.2	0	20	91	74 - 135	RPD 13.90 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	20.1	0	20	100	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	17.6	0	20	88.1	82 - 126	RPD 13 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	20.5	0	20	103	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	18.3	0	20	91.5	78 - 124	RPD 11.50 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	21.1	0	20	105	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	18.5	0	20	92.6	63 - 128	RPD 12.90 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	19.7	0	20	98.3	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	17.3	0	20	86.6	61 - 126	RPD 12.70 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	22.9	0	20	115	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	21.3	0	20	106	75 - 132	RPD 7.36 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	20.2	0	20	101	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	17.9	0	20	89.4	67 - 123	RPD 12.30 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.3	0	20	107	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	18.8	0	20	94	76 - 125	RPD 12.60 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	19.6	0	20	98.1	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	17.1	0	20	85.6	59 - 133	RPD 13.60 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	20.1	0	20	100	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	18.2	0	20	91	80 - 124	RPD 9.87 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	20.5	0	20	103	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	18.3	0	20	91.4	82 - 118	RPD 11.60 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	20	0	20	100	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	17.9	0	20	89.3	70 - 133	RPD 11.30 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	20.1	0	20	101	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	17.8	0	20	88.9	81 - 127	RPD 12.40 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	21.6	0	20	108	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	18.9	0	20	94.4	76 - 125	RPD 13.50 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	20.6	0	20	103	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	18.3	0	20	91.4	81 - 118	RPD 11.70 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	20.2	0	20	101	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	17.9	0	20	89.7	81 - 116	RPD 11.80 (Max-15)	
2-Butanone	78-93-3	MS	101	0	100	101	50 - 152		
2-Butanone	78-93-3	MSD	95.3	0	100	95.3	50 - 152	RPD 6.28 (Max-16)	
2-Hexanone	591-78-6	MS	110	0	100	110	65 - 154		
2-Hexanone	591-78-6	MSD	98.4	0	100	98.4	65 - 154	RPD 10.70 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	108	0	100	108	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	96.8	0	100	96.8	71 - 146	RPD 11 (Max-16)	
Acetone	67-64-1	MS	104	0	100	104	40 - 151		
Acetone	67-64-1	MSD	91.7	0	100	91.7	40 - 151	RPD 13 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzene	71-43-2	MS	20.7	0	20	103	80 - 124		
Benzene	71-43-2	MSD	18.3	0	20	91.4	80 - 124	RPD 12.20 (Max-26)	
Bromochloromethane	74-97-5	MS	20.4	0	20	102	73 - 117		
Bromochloromethane	74-97-5	MSD	18.3	0	20	91.7	73 - 117	RPD 10.80 (Max-19)	
Bromodichloromethane	75-27-4	MS	20.1	0	20	101	79 - 126		
Bromodichloromethane	75-27-4	MSD	18.4	0	20	92.1	79 - 126	RPD 8.77 (Max-16)	
Bromoform	75-25-2	MS	18.9	0	20	94.3	70 - 123		
Bromoform	75-25-2	MSD	17.2	0	20	85.9	70 - 123	RPD 9.31 (Max-16)	
Bromomethane	74-83-9	MS	13.3	0	20	66.3	45 - 148		
Bromomethane	74-83-9	MSD	12.3	0	20	61.6	45 - 148	RPD 7.44 (Max-26)	
Carbon Disulfide	75-15-0	MS	18.9	0	20	94.5	57 - 131		
Carbon Disulfide	75-15-0	MSD	16.9	0	20	84.7	57 - 131	RPD 11 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	20.6	0	20	103	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	17.5	0	20	87.6	62 - 132	RPD 16.10 (Max-17)	
Chlorobenzene	108-90-7	MS	20.4	0	20	102	85 - 117		
Chlorobenzene	108-90-7	MSD	18	0	20	90.2	85 - 117	RPD 12.40 (Max-15)	
Chlorodibromomethane	124-48-1	MS	19.9	0	20	99.5	77 - 122		
Chlorodibromomethane	124-48-1	MSD	17.6	0	20	88	77 - 122	RPD 12.20 (Max-15)	
Chloroethane	75-00-3	MS	13.8	0	20	69.2	51 - 142		
Chloroethane	75-00-3	MSD	12.3	0	20	61.3	51 - 142	RPD 12 (Max-24)	
Chloroform	67-66-3	MS	19.3	0	20	96.5	78 - 122		
Chloroform	67-66-3	MSD	17.2	0	20	86.1	78 - 122	RPD 11.40 (Max-16)	
Chloromethane	74-87-3	MS	24.4	0	20	122	38 - 156		
Chloromethane	74-87-3	MSD	21.4	0	20	107	38 - 156	RPD 13 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	21	0	20	105	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	18.9	0	20	94.7	78 - 125	RPD 10.30 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.7	0	20	98.7	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	17.2	0	20	85.9	81 - 121	RPD 13.90 (Max-16)	
Cyclohexane	110-82-7	MS	19.3	0	20	96.4	66 - 130		
Cyclohexane	110-82-7	MSD	17.3	0	20	86.5	66 - 130	RPD 10.90 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	18.4	0	20	92.1	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	15.7	0	20	78.6	17 - 166	RPD 15.80 (Max-24)	
Ethylbenzene	100-41-4	MS	20.8	0	20	104	80 - 124		
Ethylbenzene	100-41-4	MSD	18.7	0	20	93.4	80 - 124	RPD 11 (Max-19)	
Freon 113	76-13-1	MS	18.7	0	20	93.4	50 - 130		
Freon 113	76-13-1	MSD	16.6	0	20	83.1	50 - 130	RPD 11.70 (Max-26)	
Isopropylbenzene	98-82-8	MS	22.7	0	20	114	73 - 129		
Isopropylbenzene	98-82-8	MSD	20.1	0	20	100	73 - 129	RPD 12.50 (Max-18)	
Methyl acetate	79-20-9	MS	20	0	20	100	70 - 130		
Methyl acetate	79-20-9	MSD	17.5	0	20	87.4	70 - 130	RPD 13.60 (Max-18)	
Methyl cyclohexane	108-87-2	MS	17.7	0	20	88.6	70 - 130		
Methyl cyclohexane	108-87-2	MSD	16	0	20	79.9	70 - 130	RPD 10.30 (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	20.6	0	20	103	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	18.4	0	20	91.9	69 - 115	RPD 11.30 (Max-20)	
Methylene Chloride	75-09-2	MS	19.3	0	20	96.5	76 - 121		
Methylene Chloride	75-09-2	MSD	18	0	20	90	76 - 121	RPD 6.96 (Max-17)	
mp-Xylene	108383/106423	MS	42.2	0	40	105	79 - 125		
mp-Xylene	108383/106423	MSD	37.2	0	40	92.9	79 - 125	RPD 12.60 (Max-21)	
o-Xylene	95-47-6	MS	21.2	0	20	106	79 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
o-Xylene	95-47-6	MSD	18.4	0	20	92.2	79 - 124	RPD 14.10 (Max-19)	
Styrene	100-42-5	MS	21.1	0	20	106	79 - 123		
Styrene	100-42-5	MSD	18.6	0	20	93	79 - 123	RPD 12.80 (Max-16)	
Tetrachloroethene	127-18-4	MS	18.4	0	20	91.9	72 - 124		
Tetrachloroethene	127-18-4	MSD	16	0	20	80.2	72 - 124	RPD 13.50 (Max-38)	
Toluene	108-88-3	MS	20.5	0	20	103	80 - 125		
Toluene	108-88-3	MSD	18.1	0	20	90.7	80 - 125	RPD 12.40 (Max-20)	
Total Xylenes	1330-20-7	MS	63.4	0	60	106	79 - 125		
Total Xylenes	1330-20-7	MSD	55.6	0	60	92.7	79 - 125	RPD 13.10 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	20.4	0	20	102	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	18	0	20	90	71 - 122	RPD 12.30 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	20.1	0	20	100	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	18.2	0	20	91.2	78 - 126	RPD 9.61 (Max-18)	
Trichloroethene	79-01-6	MS	19.2	0	20	95.9	77 - 124		
Trichloroethene	79-01-6	MSD	17.8	0	20	88.9	77 - 124	RPD 7.51 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	15.5	0	20	77.5	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	13.3	0	20	66.6	38 - 123	RPD 15.10 (Max-23)	
Vinyl Chloride	75-01-4	MS	20	0	20	100	27 - 138		
Vinyl Chloride	75-01-4	MSD	16.6	0	20	83.2	27 - 138	RPD 18.30 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	32	30	107	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	31	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	28.5	30	95	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.7	30	95.6	79 - 114	
Dibromofluoromethane	1868-53-7	MS	29.7	30	99	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	29.3	30	97.7	78 - 116	
Toluene-d8	2037-26-5	MS	29.7	30	99	76 - 127	
Toluene-d8	2037-26-5	MSD	29.1	30	96.9	76 - 127	

Method Blank 3919046 (MB) Created on 12/16/2024 23:48 For QC Batch 1356391

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.8	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.4	30	97.8	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.4	30	98.2	78 - 116	
Toluene-d8	2037-26-5	BLK	29.9	30	99.6	76 - 127	

Lab Control Standard 3919047 (LCS) Created on 12/16/2024 23:48 For QC Batch 1356391

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	19.5		20	97.3	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	18.7		20	93.3	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	17.9		20	89.7	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	18.7		20	93.4	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	20.6		20	103	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.9		20	99.5	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.4		20	107	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	20.8		20	104	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.1		20	100	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	17.7		20	88.7	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	18.6		20	93.2	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	19		20	95	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	18.2		20	90.9	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	18.3		20	91.3	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	20.1		20	100	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	19.1		20	95.3	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	18.8		20	93.8	81 - 116		
2-Butanone	78-93-3	LCS	97.2		100	97.2	50 - 152		
2-Hexanone	591-78-6	LCS	101		100	101	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	99.2		100	99.2	71 - 146		
Acetone	67-64-1	LCS	96.4		100	96.4	40 - 151		
Benzene	71-43-2	LCS	18.5		20	92.6	80 - 124		
Bromochloromethane	74-97-5	LCS	19		20	95.2	73 - 117		
Bromodichloromethane	75-27-4	LCS	18.5		20	92.4	79 - 126		
Bromoform	75-25-2	LCS	17.7		20	88.6	70 - 123		
Bromomethane	74-83-9	LCS	18.6		20	93	45 - 148		
Carbon Disulfide	75-15-0	LCS	19.5		20	97.4	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.9		20	99.7	62 - 132		
Chlorobenzene	108-90-7	LCS	18.3		20	91.5	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18.1		20	90.5	77 - 122		
Chloroethane	75-00-3	LCS	14.5		20	72.7	51 - 142		
Chloroform	67-66-3	LCS	17.6		20	88	78 - 122		
Chloromethane	74-87-3	LCS	22.4		20	112	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	18.8		20	93.9	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.4		20	92.1	81 - 121		
Cyclohexane	110-82-7	LCS	21.5		20	107	66 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCS	24.1		20	120	17 - 166		
Ethylbenzene	100-41-4	LCS	19.4		20	97	80 - 124		
Freon 113	76-13-1	LCS	21.9		20	109	50 - 130		
Isopropylbenzene	98-82-8	LCS	21.6		20	108	73 - 129		
Methyl acetate	79-20-9	LCS	20.4		20	102	70 - 130		
Methyl cyclohexane	108-87-2	LCS	21.3		20	107	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	18.9		20	94.5	69 - 115		
Methylene Chloride	75-09-2	LCS	18.1		20	90.6	76 - 121		
mp-Xylene	108383/106423	LCS	38.8		40	96.9	79 - 125		
o-Xylene	95-47-6	LCS	18.8		20	93.8	79 - 124		
Styrene	100-42-5	LCS	19.3		20	96.7	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.2		20	95.8	72 - 124		
Toluene	108-88-3	LCS	18.8		20	94.1	80 - 125		
Total Xylenes	1330-20-7	LCS	57.5		60	95.9	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	19		20	94.9	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.1		20	95.3	78 - 126		
Trichloroethene	79-01-6	LCS	18.4		20	92.2	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	19		20	95.2	38 - 123		
Vinyl Chloride	75-01-4	LCS	18.7		20	93.7	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.5	30	98.4	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.1	30	97	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.3	30	97.8	78 - 116	
Toluene-d8	2037-26-5	LCS	29.4	30	98	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1353594	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Matrix Spike 3915898 (MS) 3391173005 (non-Project Sample) For QC Batch 1353594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3915899 (MSD) 3391173005 (non-Project Sample) For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	1.3	0.31	1	95.4	80 - 120		
Nitrate-N	NO3	MSD	1.3	0.31	1	95.1	80 - 120	RPD 0.24 (Max-20)	

Matrix Spike 3915902 (MS) 3391209001 (non-Project Sample) For QC Batch 1353594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike 3916016 (MS) 3390859001 (non-Project Sample) For QC Batch 1353594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916017 (MSD) 3390859001 (non-Project Sample) For QC Batch 1353594

Matrix Spike 3916020 (MS) 3391279001 (non-Project Sample) For QC Batch 1353594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	1.5	0.40	1	112	80 - 120		

Matrix Spike 3916023 (MS) 3391334003 (non-Project Sample) For QC Batch 1353594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916024 (MSD) 3391334003 (non-Project Sample) For QC Batch 1353594

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	284	258	25	NC	80 - 120		
Chloride	Cl	MSD	284	258	25	NC	80 - 120	RPD 0.10 (Max-20)	
Nitrate-N	NO3	MS	3.1	0	2.50	122*	80 - 120		
Nitrate-N	NO3	MSD	3.1	0	2.50	123*	80 - 120	RPD 0.36 (Max-20)	
Sulfate	SO4	MS	70.1	36.40	25	135*	80 - 120		
Sulfate	SO4	MSD	70.4	36.40	25	136*	80 - 120	RPD 0.46 (Max-20)	

Matrix Spike 3916043 (MS) 3391334004 (non-Project Sample) For QC Batch 1353594

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	54.5	42.10	10	NC	80 - 120		
Nitrate-N	NO3	MS	1.2	0	1	122*	80 - 120		
Sulfate	SO4	MS	71.4	59.30	10	NC	80 - 120		

Method Blank 3915551 (MB) Created on 12/10/2024 06:36 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3915552 (LCS) Created on 12/10/2024 06:36 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5		5	101	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Lab Control Standard 3915900 (LCS) Created on 12/10/2024 12:18 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.2		50	102	90 - 110		

Method Blank 3915901 (MB) Created on 12/10/2024 12:18 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3915903 (LCS) Created on 12/10/2024 12:18 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.5		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3915904 (MB) Created on 12/10/2024 12:18 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3916018 (LCS) Created on 12/10/2024 14:09 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.6		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	52		50	104	90 - 110		

Method Blank 3916019 (MB) Created on 12/10/2024 14:09 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3916021 (LCS) Created on 12/10/2024 14:09 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.8		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

Method Blank 3916022 (MB) Created on 12/10/2024 14:09 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3916025 (LCS) Created on 12/10/2024 14:09 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.1		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	53.2		50	106	90 - 110		

Method Blank 3916026 (MB) Created on 12/10/2024 14:09 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3916044 (LCS) Created on 12/10/2024 14:29 For QC Batch 1353594

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.4		50	105	90 - 110		

Method Blank 3916045 (MB) Created on 12/10/2024 14:29 For QC Batch 1353594

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1353714	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Duplicate 3915951 (DUP) 3390785002 (non-Project Sample) For QC Batch 1353714

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	467	465	RPD	0.43	(Max-10)	

Duplicate 3915953 (DUP) 3391334002 (non-Project Sample) For QC Batch 1353714

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	175.90	175.50	RPD	0.23	(Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3915968 (DUP) 3391334003 (non-Project Sample) For QC Batch 1353714

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	725	721	RPD	0.55 (Max-10)	

QC Batch

QC Batch	1353728	Prep Method	N/A
Date	N/A	Analysis Method	SM2130B-2011
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Duplicate 3915999 (DUP) 3391334003 (non-Project Sample) For QC Batch 1353728

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	35	36	RPD	2.82 (Max-10)	

Method Blank 3915994 (MB) Created on 12/10/2024 13:50 For QC Batch 1353728

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3915996 (DUP) 3391293001 For QC Batch 1353728

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	230	230	RPD	0 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3915997 (MB) Created on 12/10/2024 13:50 For QC Batch 1353728

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3916000 (MB) Created on 12/10/2024 13:50 For QC Batch 1353728

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1354230	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Duplicate 3916683 (DUP) 3391250002 (non-Project Sample) For QC Batch 1354230

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	362	370	RPD	2.19 (Max-5)	

Duplicate 3916684 (DUP) 3391252002 (non-Project Sample) For QC Batch 1354230

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	392	398	RPD	1.52 (Max-5)	

Method Blank 3916305 (MB) Created on 12/11/2024 09:04 For QC Batch 1354230

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3916306 (LCS) Created on 12/11/2024 09:04 For QC Batch 1354230

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	477		500	95.4	90 - 110		

QC Batch

QC Batch	1354703	Prep Method	N/A
Date	N/A	Analysis Method	S4500HB-11
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Duplicate 3917236 (DUP) 3391172002 (non-Project Sample) For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	60.52	60.56	RPD 0.07	(Max-20)	
pH	PH	DUP					

Duplicate 3917252 (DUP) 3391334003 (non-Project Sample) For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	78.40	84.92	RPD 7.98	(Max-20)	
pH	PH	DUP	7.0960	7.2270	RPD 1.83	(Max-10)	

Duplicate 3917256 (DUP) 3391395001 (non-Project Sample) For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	89.88	89.40	RPD	0.54	(Max-20)	
pH	PH	DUP	8.1860	8.1410	RPD	0.55	(Max-10)	

Duplicate 3917260 (DUP) 3391508002 (non-Project Sample) For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	60.40	59	RPD	2.35	(Max-20)	
pH	PH	DUP	8.0580	8.0390	RPD	0.24	(Max-10)	

Duplicate 3917264 (DUP) 3391508003 (non-Project Sample) For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	62.84	61.68	RPD	1.86	(Max-20)	
pH	PH	DUP	8.0530	8.0730	RPD	0.25	(Max-10)	

Method Blank 3917234 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3917238 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3917240 (DUP) 3391293001 For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP					
pH	PH	DUP	8.0610	8.1280	RPD	0.83 (Max-10)	

Method Blank 3917242 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3917244 (DUP) 3391293002 For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP					
pH	PH	DUP	8.0180	8.05	RPD	0.40 (Max-10)	

Method Blank 3917246 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3917248 (DUP) 3391293009 For QC Batch 1354703

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	104.88	106.16	RPD	1.21 (Max-20)	
pH	PH	DUP	8.4610	8.4630	RPD	0.02 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3917250 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3917254 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3917258 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3917262 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3917266 (MB) Created on 12/12/2024 11:13 For QC Batch 1354703

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1355591	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3391293009

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3918175 (MS) 3392229002 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918176 (MSD) 3392229002 (non-Project Sample) For QC Batch 1355591

Matrix Spike 3918179 (MS) 3391543002 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike 3918182 (MS) 3391836014 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918183 (MSD) 3391836014 (non-Project Sample) For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	63.3	9	50	109	80 - 120		
Chloride	Cl	MSD	63.2	9	50	108	80 - 120	RPD 0.18 (Max-20)	
Nitrate-N	NO3	MS	44.6	40.30	5	NC	80 - 120		
Nitrate-N	NO3	MSD	44.2	40.30	5	NC	80 - 120	RPD 0.71 (Max-20)	
Sulfate	SO4	MS	637	601	50	NC	80 - 120		
Sulfate	SO4	MSD	633	601	50	NC	80 - 120	RPD 0.67 (Max-20)	

Matrix Spike 3918186 (MS) 3391888001 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	590	553	50	NC	80 - 120		

Matrix Spike 3918206 (MS) 3392316006 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918207 (MSD) 3392316006 (non-Project Sample) For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	36.1	7.50	25	114	80 - 120		
Chloride	Cl	MSD	36.3	7.50	25	115	80 - 120	RPD 0.53 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	3.8	1.20	2.50	104	80 - 120		
Nitrate-N	NO3	MSD	3.8	1.20	2.50	104	80 - 120	RPD 0.24 (Max-20)	

Method Blank 3918161 (MB) Created on 12/14/2024 06:33 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918162 (LCS) Created on 12/14/2024 06:33 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	50.9		50	102	90 - 110		

Lab Control Standard 3918177 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.4		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3918178 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918180 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

Method Blank 3918181 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918184 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.1		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.9		50	106	90 - 110		

Method Blank 3918185 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918187 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.5		50	105	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3918188 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918208 (LCS) Created on 12/14/2024 10:31 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	53		50	106	90 - 110		

Method Blank 3918209 (MB) Created on 12/14/2024 10:31 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1356012	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006		

Duplicate 3918360 (DUP) 3391582001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	832.80	813.20	RPD	2.38 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3918364 (DUP) 3391582010 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	668	687.60	RPD	2.89 (Max-20)	

Duplicate 3918368 (DUP) 3391606001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	3.72	4.92	RPD	27.80* (Max-20)	ND

Duplicate 3918372 (DUP) 3391609001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	2.20	2.56	RPD	15.10 (Max-20)	ND

Duplicate 3918376 (DUP) 3391692001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	114.88	115.60	RPD	0.62 (Max-20)	

Duplicate 3918380 (DUP) 3391762001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	320.44	320.76	RPD	0.10	(Max-20)	

Duplicate 3918384 (DUP) 3391762011 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	58.76	58.12	RPD	1.10	(Max-20)	

Duplicate 3918388 (DUP) 3391836002 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	293.60	295.08	RPD	0.50	(Max-20)	

Duplicate 3918392 (DUP) 3391836012 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3918396 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3918400 (DUP) 3391970001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	152.96	153.16	RPD	0.13 (Max-20)	

Method Blank 3918354 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3918356 (DUP) 3391293006 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	1158.80	1162.80	RPD	0.34 (Max-20)	

Method Blank 3918358 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918362 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918366 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918370 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918374 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918378 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918382 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918386 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918390 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3918394 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	6	mg/L	5	

Method Blank 3918398 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918402 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3918404 (DUP) 3391293001 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	726.40	747.60	RPD	2.88 (Max-20)	

Duplicate 3918405 (DUP) 3391293002 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	1240	1234	RPD	0.49 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1356226	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3391293001	3391293002	3391293003	3391293004
3391293005	3391293006	3391293008	3391293009

Duplicate 3918624 (DUP) 3391971001 (non-Project Sample) For QC Batch 1356226

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	1	2	RPD 66.70* (Max-20)	ND

Method Blank 3918623 (MB) Created on 12/16/2024 09:05 For QC Batch 1356226

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3918626 (MB) Created on 12/16/2024 09:05 For QC Batch 1356226

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3918627 (DUP) 3391293006 For QC Batch 1356226

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	67	62	RPD 7.75 (Max-20)	

Method Blank 3918629 (MB) Created on 12/16/2024 09:05 For QC Batch 1356226

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391293001	MW-39	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
3391293002	MW-40	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356346
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1354784
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
3391293003	MW-40-DUP	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356346
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1354784
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
3391293004	MW-41	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356346
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1354784
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391293005	MW-43	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
3391293006	MW-44	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356346
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
3391293007	TB-40	N/A	N/A	N/A		SW846 8260D	1354784
3391293008	MW-22D	SW846 3015A	1354227	12/11/2024 11:10	ANN	SW846 6010C	1356553
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1354703
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
3391293009	MW-22S	SW846 3015A	1354229	12/11/2024 12:54	ANN	SW846 6010C	1360726
		SW846 3015A	1354228	12/11/2024 11:54	ANN	SW846 6010C	1356237
		SW846 3015A	1354229	12/11/2024 12:54	ANN	SW846 6010C	1360798
		SW846 7470A	1354195	12/11/2024 09:19	AJN	SW846 7470A	1354341
		SW846 7470A	1354215	12/11/2024 09:19	AJN	SW846 7470A	1354344
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354421
		SW846 3510C	1354093	12/11/2024 08:45	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1354784
		N/A	N/A	N/A		S4500HB-11	1354703
		N/A	N/A	N/A		SM2130B-2011	1353728
		N/A	N/A	N/A		SM2310B-2011	1356226
		N/A	N/A	N/A		SM2320B-2011	1354703
		N/A	N/A	N/A		SM2540C-15	1354230
		N/A	N/A	N/A		SW846 9050A	1353714
		N/A	N/A	N/A		SW846 9056A	1353594
		N/A	N/A	N/A		SW846 9056A	1355591

ALS

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3391293
Logged By: MJE
PM: EXP
ALS Quote
of

Client Name: Michael Baker Intl.
Address: 100 Airside Drive
Moon Twp, PA

Contact: C. Kupter
Phone#: 412-269-6300
Project Name/#: Ene Coke Works
Bill To:
Purchase Order #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email?

Receipt Information (completed by Receiving Lab)
Temp Taken By: MJE Therm ID: 569 WO Temp (°C) 1°
Receipt Info completed by: WV Containers 0-6°C Y N NA
Cooler Custody
Sample Custod
Received on Ic
Coolers & Sam
Correct Contair
Sample Label/
Adequate Sam
VOA only: Trip
NJ ≤ 4 days?
Courier/Tracking

Temp By: MJE | WO Temp (°C) 1° | Therm ID 569

Receipt Info Completed By: MJE
Cooler Custody Seal Intact Y N NA
Sample Custody Seal Intact Y N NA
Received on Ice Y N NA
Cooler & Samples Intact Y N
Correct Containers Provided Y N
Sample Label/COC Agree Y N
Adequate Sample Volumes Y N
CR6 Samples Filtered Y N NA
OP Samples Filtered Y N NA
VOA Trip Blank Y N NA
NJ≤ 4 Days? Y N
Rad Screen (uCi)
Courier/Tracking #: 283085500810
SDWA Compliance Y N
PWSID
WV Containers 0-6°C Y N NA

Sample(s) for uCi)
Reportable St Y N
SDWA State ontact:
PWSID #
PWS Contact

*No sampler, C/C, MJE 12/10/24
Matrix SW

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks
40 and 41 GW samples are considered "Hot"

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

	Container Type	G	G	P	P						
	Container Size	3 40mL	1 500 mL	4 125 mL	2 1L						
	Preservative	HCl	UNP	H_2SO_4 MJE 12/10/24	UNP						

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Gen. Chem.	D. Ss. Metals + Hg 6010/7471B								Enter Number of Containers Per Sample or Field Results Below.
1	MW-39	12/9/24	1200				x3	x1	x2	x2	x2								
2	MW-40		1340				x3	x1	x2	x2	x2	MJE							
3	MW-40-DUP		1345				x3	x1	x2	x2	x2	12/10/24							
4	MW-41		1242				x3	x1	x2	x2	x2								
5	MW-43		1140				x3	x1	x2	x2	x2								
6	MW-44		1545				x3	x1	x2	x2	x2								
7	TB-40	—	—				x2												
8	MW-220	12/9/24	1645				x3	x1	x2	x2	x2								
9	MW-225	12/9/24	1645				x3	x1	x2	x2	x2								
10																			

Circle Sample Collector: ALS Tech / Client
Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/9/24	1800	1	Dave Garrison / MBI	2	Fedex
12/10/24	902	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type

State Samples Collected in: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

283085500810

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3391582
Report ID 386370 on 2/7/2025 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 11, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3391582001	MW-14	Ground Water	12/10/2024 09:35	12/11/2024 09:21	CBC	Collected By Client
3391582002	MW-28	Ground Water	12/10/2024 10:55	12/11/2024 09:21	CBC	Collected By Client
3391582003	MW-37	Ground Water	12/10/2024 14:30	12/11/2024 09:21	CBC	Collected By Client
3391582004	MW-45	Ground Water	12/10/2024 16:10	12/11/2024 09:21	CBC	Collected By Client
3391582005	MW-17	Ground Water	12/10/2024 14:20	12/11/2024 09:21	CBC	Collected By Client
3391582006	MW-13	Ground Water	12/10/2024 15:50	12/11/2024 09:21	CBC	Collected By Client
3391582007	MW-12	Ground Water	12/10/2024 09:15	12/11/2024 09:21	CBC	Collected By Client
3391582008	MW-15	Ground Water	12/10/2024 11:15	12/11/2024 09:21	CBC	Collected By Client
3391582009	MW-15-Dup	Ground Water	12/10/2024 11:30	12/11/2024 09:21	CBC	Collected By Client
3391582010	MW-16	Ground Water	12/10/2024 14:30	12/11/2024 09:21	CBC	Collected By Client
3391582011	MW-2	Ground Water	12/10/2024 15:45	12/11/2024 09:21	CBC	Collected By Client
3391582012	TB-41	Ground Water	12/10/2024 15:45	12/11/2024 09:21	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

P1 This report was revised to include total Zinc results for ALS#3391582007, total Arsenic results for ALS#3391582001, Acenaphthylene for ALS#3391582008 and Carbazole for ALS#3391582009. EXP 2/4/25

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
E	Result reported exceeds instrument calibration
1	The QC sample type LCS for method SW846 8270E was outside the control limits for the analyte 3,3-Dichlorobenzidine. The % Recovery was reported as 37.3 and the control limits were 38 to 115.
2	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
3	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
4	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
5	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
6	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 40.7 and the control limits were 41 to 145. This result was reported at a dilution of 1.
7	The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.
8	The QC sample type MSD for method SW846 6010C was outside the control limits for the analyte Antimony, Dissolved. The % Recovery was reported as 65.3 and the control limits were 75 to 125.
9	The QC sample type MS for method SW846 6010C was outside the control limits for the analyte Antimony, Dissolved. The % Recovery was reported as 62.6 and the control limits were 75 to 125.
10	The QC sample type MSD for method SW846 6010C was outside the control limits for the analyte Calcium, Dissolved. The % Recovery was reported as 21.8 and the control limits were 75 to 125.
11	The QC sample type MS for method SW846 6010C was outside the control limits for the analyte Magnesium, Dissolved. The % Recovery was reported as 130 and the control limits were 75 to 125.
12	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Butylbenzylphthalate. The % Recovery was reported as 124 and the control limits were 80 to 120.
13	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Di-n-Octylphthalate. The % Recovery was reported as 125 and the control limits were 80 to 120.
14	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte bis(2-Ethylhexyl)phthalate. The % Recovery was reported as 124 and the control limits were 80 to 120.
15	The surrogate 2-Fluorophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 167 and the control limits were 10 to 85. This result was reported at a dilution of 100.
16	The surrogate Phenol-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 63 and the control limits were 7 to 56. This result was reported at a dilution of 100.
17	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 41 to 145. This result was reported at a dilution of 100.
18	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 26.3 and the control limits were 41 to 145. This result was reported at a dilution of 4.
19	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 27.8 and the control limits were 41 to 145. This result was reported at a dilution of 1.

20	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 37.6 and the control limits were 41 to 145. This result was reported at a dilution of 20.
21	The surrogate 2-Fluorophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 10 to 85. This result was reported at a dilution of 200.
22	The surrogate Phenol-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 7 to 56. This result was reported at a dilution of 200.
23	The surrogate Nitrobenzene-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 32 to 125. This result was reported at a dilution of 200.
24	The surrogate 2-Fluorobiphenyl for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 24 to 116. This result was reported at a dilution of 200.
25	The surrogate 2,4,6-Tribromophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 23 to 131. This result was reported at a dilution of 200.
26	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 37.3 and the control limits were 41 to 145. This result was reported at a dilution of 10.
27	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 41 to 145. This result was reported at a dilution of 200.
28	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 40.5 and the control limits were 41 to 145. This result was reported at a dilution of 1.
29	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 35.4 and the control limits were 41 to 145. This result was reported at a dilution of 20.
30	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 36.7 and the control limits were 41 to 145. This result was reported at a dilution of 1.
31	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 31.2 and the control limits were 41 to 145. This result was reported at a dilution of 4.

Compound Cross Reference Table

METALS

CAS Number	ALS Name	Common Name
7429-90-5_D	Aluminum, Dissolved	Aluminum, Dissolved
7429-90-5	Aluminum, Total	Aluminum, Total
7440-36-0_D	Antimony, Dissolved	Antimony, Dissolved
7440-36-0	Antimony, Total	Antimony, Total
7440-38-2_D	Arsenic, Dissolved	Arsenic, Dissolved
7440-38-2	Arsenic, Total	Arsenic, Total
7440-39-3_D	Barium, Dissolved	Barium, Dissolved
7440-39-3	Barium, Total	Barium, Total
7440-41-7_D	Beryllium, Dissolved	Beryllium, Dissolved
7440-41-7	Beryllium, Total	Beryllium, Total
7440-43-9_D	Cadmium, Dissolved	Cadmium, Dissolved
7440-43-9	Cadmium, Total	Cadmium, Total
7440-70-2_D	Calcium, Dissolved	Calcium, Dissolved
7440-70-2	Calcium, Total	Calcium, Total
7440-47-3_D	Chromium, Dissolved	Chromium, Dissolved
7440-47-3	Chromium, Total	Chromium, Total
7440-48-4_D	Cobalt, Dissolved	Cobalt, Dissolved
7440-48-4	Cobalt, Total	Cobalt, Total
7440-50-8_D	Copper, Dissolved	Copper, Dissolved
7440-50-8	Copper, Total	Copper, Total
7439-89-6_D	Iron, Dissolved	Iron, Dissolved
7439-89-6	Iron, Total	Iron, Total
7439-92-1_D	Lead, Dissolved	Lead, Dissolved
7439-92-1	Lead, Total	Lead, Total
7439-95-4_D	Magnesium, Dissolved	Magnesium, Dissolved
7439-95-4	Magnesium, Total	Magnesium, Total
7439-96-5_D	Manganese, Dissolved	Manganese, Dissolved
7439-96-5	Manganese, Total	Manganese, Total
7439-97-6_D	Mercury, Dissolved	Mercury, Dissolved
7439-97-6	Mercury, Total	Mercury, Total
7440-02-0_D	Nickel, Dissolved	Nickel, Dissolved
7440-02-0	Nickel, Total	Nickel, Total
7440-09-7_D	Potassium, Dissolved	Potassium, Dissolved
7440-09-7	Potassium, Total	Potassium, Total
7782-49-2_D	Selenium, Dissolved	Selenium, Dissolved
7782-49-2	Selenium, Total	Selenium, Total
7440-22-4_D	Silver, Dissolved	Silver, Dissolved
7440-22-4	Silver, Total	Silver, Total
7440-23-5_D	Sodium, Dissolved	Sodium, Dissolved
7440-23-5	Sodium, Total	Sodium, Total
7440-28-0_D	Thallium, Dissolved	Thallium, Dissolved
7440-28-0	Thallium, Total	Thallium, Total
7440-62-2_D	Vanadium, Dissolved	Vanadium, Dissolved
7440-62-2	Vanadium, Total	Vanadium, Total
7440-66-6_D	Zinc, Dissolved	Zinc, Dissolved
7440-66-6	Zinc, Total	Zinc, Total

SEMIVOLATILES

CAS Number	ALS Name	Common Name
95-94-3	1,2,4,5-Tetrachlorobenzene	1,2,4,5-Tetrachlorobenzene
123-91-1	1,4-Dioxane	1,4-Dioxane
58-90-2	2,3,4,6-Tetrachlorophenol	2,3,4,6-Tetrachlorophenol
95-95-4	2,4,5-Trichlorophenol	2,4,5-Trichlorophenol

Compound Cross Reference Table

SEMIVOLATILES (cont.)

CAS Number	ALS Name	Common Name
88-06-2	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol
120-83-2	2,4-Dichlorophenol	2,4-Dichlorophenol
105-67-9	2,4-Dimethylphenol	2,4-Dimethylphenol
51-28-5	2,4-Dinitrophenol	2,4-Dinitrophenol
121-14-2	2,4-Dinitrotoluene	2,4-Dinitrotoluene
606-20-2	2,6-Dinitrotoluene	2,6-Dinitrotoluene
91-58-7	2-Chloronaphthalene	2-Chloronaphthalene
95-57-8	2-Chlorophenol	2-Chlorophenol
534-52-1	2-Methyl-4,6-dinitrophenol	2-Methyl-4,6-dinitrophenol
91-57-6	2-Methylnaphthalene	2-Methylnaphthalene
88-74-4	2-Nitroaniline	2-Nitroaniline
88-75-5	2-Nitrophenol	2-Nitrophenol
91-94-1	3,3-Dichlorobenzidine	3,3-Dichlorobenzidine
99-09-2	3-Nitroaniline	3-Nitroaniline
101-55-3	4-Bromophenyl-phenylether	4-Bromophenyl-phenylether
59-50-7	4-Chloro-3-methylphenol	4-Chloro-3-methylphenol
106-47-8	4-Chloroaniline	4-Chloroaniline
7005-72-3	4-Chlorophenyl-phenylether	4-Chlorophenyl-phenylether
100-01-6	4-Nitroaniline	4-Nitroaniline
100-02-7	4-Nitrophenol	4-Nitrophenol
83-32-9	Acenaphthene	Acenaphthene
208-96-8	Acenaphthylene	Acenaphthylene
98-86-2	Acetophenone	Acetophenone
120-12-7	Anthracene	Anthracene
1912-24-9	Atrazine	Atrazine
100-52-7	Benzaldehyde	Benzaldehyde
56-55-3	Benzo(a)anthracene	Benzo(a)anthracene
50-32-8	Benzo(a)pyrene	Benzo(a)pyrene
205-99-2	Benzo(b)fluoranthene	Benzo(b)fluoranthene
191-24-2	Benzo(g,h,i)perylene	Benzo(g,h,i)perylene
207-08-9	Benzo(k)fluoranthene	Benzo(k)fluoranthene
92-52-4	Biphenyl	Biphenyl
111-91-1	bis(2-Chloroethoxy)methane	bis(2-Chloroethoxy)methane
111-44-4	bis(2-Chloroethyl)ether	bis(2-Chloroethyl)ether
108-60-1	bis(2-Chloroisopropyl)ether	bis(2-Chloroisopropyl)ether
117-81-7	bis(2-Ethylhexyl)phthalate	bis(2-Ethylhexyl)phthalate
85-68-7	Butylbenzylphthalate	Butylbenzylphthalate
105-60-2	Caprolactam	Caprolactam
86-74-8	Carbazole	Carbazole
218-01-9	Chrysene	Chrysene
53-70-3	Dibenzo(a,h)anthracene	Dibenzo(a,h)anthracene
132-64-9	Dibenzofuran	Dibenzofuran
84-66-2	Diethylphthalate	Diethylphthalate
131-11-3	Dimethylphthalate	Dimethylphthalate
84-74-2	Di-n-Butylphthalate	Di-n-Butylphthalate
117-84-0	Di-n-Octylphthalate	Di-n-Octylphthalate
206-44-0	Fluoranthene	Fluoranthene
86-73-7	Fluorene	Fluorene
118-74-1	Hexachlorobenzene	Hexachlorobenzene
87-68-3	Hexachlorobutadiene	Hexachlorobutadiene
77-47-4	Hexachlorocyclopentadiene	Hexachlorocyclopentadiene
67-72-1	Hexachloroethane	Hexachloroethane
193-39-5	Indeno(1,2,3-cd)pyrene	Indeno(1,2,3-cd)pyrene
78-59-1	Isophorone	Isophorone

Compound Cross Reference Table

SEMIVOLATILES (cont.)

CAS Number	ALS Name	Common Name
108394/106445	mp-Cresol	mp-Cresol
91-20-3	Naphthalene	Naphthalene
98-95-3	Nitrobenzene	Nitrobenzene
621-64-7	N-Nitroso-di-n-propylamine	N-Nitroso-di-n-propylamine
86-30-6	N-Nitrosodiphenylamine	N-Nitrosodiphenylamine
95-48-7	o-Cresol	o-Cresol
87-86-5	Pentachlorophenol	Pentachlorophenol
85-01-8	Phenanthrene	Phenanthrene
108-95-2	Phenol	Phenol
129-00-0	Pyrene	Pyrene

VOLATILE ORGANICS

CAS Number	ALS Name	Common Name
71-55-6	1,1,1-Trichloroethane	1,1,1-Trichloroethane
79-34-5	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane
79-00-5	1,1,2-Trichloroethane	1,1,2-Trichloroethane
75-34-3	1,1-Dichloroethane	1,1-Dichloroethane
75-35-4	1,1-Dichloroethene	1,1-Dichloroethene
87-61-6	1,2,3-Trichlorobenzene	1,2,3-Trichlorobenzene
96-18-4	1,2,3-Trichloropropane	1,2,3-Trichloropropane
120-82-1	1,2,4-Trichlorobenzene	1,2,4-Trichlorobenzene
95-63-6	1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene
96-12-8	1,2-Dibromo-3-chloropropane	1,2-Dibromo-3-chloropropane
106-93-4	1,2-Dibromoethane	1,2-Dibromoethane
95-50-1	1,2-Dichlorobenzene	1,2-Dichlorobenzene
107-06-2	1,2-Dichloroethane	1,2-Dichloroethane
78-87-5	1,2-Dichloropropane	1,2-Dichloropropane
108-67-8	1,3,5-Trimethylbenzene	1,3,5-Trimethylbenzene
541-73-1	1,3-Dichlorobenzene	1,3-Dichlorobenzene
106-46-7	1,4-Dichlorobenzene	1,4-Dichlorobenzene
78-93-3	2-Butanone	2-Butanone
591-78-6	2-Hexanone	2-Hexanone
108-10-1	4-Methyl-2-Pentanone(MIBK)	4-Methyl-2-Pentanone(MIBK)
67-64-1	Acetone	Acetone
71-43-2	Benzene	Benzene
74-97-5	Bromochloromethane	Bromochloromethane
75-27-4	Bromodichloromethane	Bromodichloromethane
75-25-2	Bromoform	Bromoform
74-83-9	Bromomethane	Bromomethane
75-15-0	Carbon Disulfide	Carbon Disulfide
56-23-5	Carbon Tetrachloride	Carbon Tetrachloride
108-90-7	Chlorobenzene	Chlorobenzene
124-48-1	Chlorodibromomethane	Chlorodibromomethane
75-00-3	Chloroethane	Chloroethane
67-66-3	Chloroform	Chloroform
74-87-3	Chloromethane	Chloromethane
156-59-2	cis-1,2-Dichloroethene	cis-1,2-Dichloroethene
10061-01-5	cis-1,3-Dichloropropene	cis-1,3-Dichloropropene
110-82-7	Cyclohexane	Cyclohexane
75-71-8	Dichlorodifluoromethane	Dichlorodifluoromethane
100-41-4	Ethylbenzene	Ethylbenzene
76-13-1	Freon 113	Freon 113
98-82-8	Isopropylbenzene	Isopropylbenzene

Compound Cross Reference Table

VOLATILE ORGANICS (cont.)

CAS Number	ALS Name	Common Name
79-20-9	Methyl acetate	Methyl acetate
108-87-2	Methyl cyclohexane	Methyl cyclohexane
1634-04-4	Methyl t-Butyl Ether	Methyl t-Butyl Ether
75-09-2	Methylene Chloride	Methylene Chloride
108383/106423	mp-Xylene	mp-Xylene
95-47-6	o-Xylene	o-Xylene
100-42-5	Styrene	Styrene
127-18-4	Tetrachloroethene	Tetrachloroethene
108-88-3	Toluene	Toluene
1330-20-7	Total Xylenes	Total Xylenes
156-60-5	trans-1,2-Dichloroethene	trans-1,2-Dichloroethene
10061-02-6	trans-1,3-Dichloropropene	trans-1,3-Dichloropropene
79-01-6	Trichloroethene	Trichloroethene
75-69-4	Trichlorofluoromethane	Trichlorofluoromethane
75-01-4	Vinyl Chloride	Vinyl Chloride

WET CHEMISTRY

CAS Number	ALS Name	Common Name
ACID-T	Acidity, Total	Acidity, Total
ALKT	Alkalinity, Total	Alkalinity, Total
Cl	Chloride	Chloride
NO3	Nitrate-N	Nitrate-N
PH	pH	pH
Cond	Specific Conductance	Specific Conductance
SO4	Sulfate	Sulfate
TDS	Total Dissolved Solids	Total Dissolved Solids
Turb	Turbidity	Turbidity

Detected Results Summary

Client Sample ID	MW-14	Collected	12/10/2024 09:35
Lab Sample ID	3391582001	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.053J	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.019	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.018	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.14	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.14	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	233	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	235	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0026J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	10.2	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	10.6	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	45.0	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	46.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.91	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.94	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	8.0	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	8.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.012J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	70.5	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	71.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Acetophenone	1.7J	ug/L	3.0	0.90	SW846 8270E	#
Naphthalene	2.2	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	0.29J	ug/L	1.5	0.25	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	33	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	813	mg/L	50	50	SM2320B-2011	#
Chloride	108	mg/L	5.0	2.2	SW846 9056A	#
pH	8.13	pH_Units			S4500HB-11	#
Specific Conductance	1640	umhos/cm	5	0.1	SW846 9050A	#
Total Dissolved Solids	2290	mg/L	25	25	SM2540C-15	#
Turbidity	110	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-28	Collected	12/10/2024 10:55
Lab Sample ID	3391582002	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Total	0.015J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.054	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.061	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.087	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.090	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	163	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	165	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	9.5	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	9.7	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	70.8	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	72.8	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.91	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.95	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	14.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	15.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.011J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	67.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	67.7	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Acenaphthene	2.1	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	1.5	ug/L	1.5	0.65	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	2.8	ug/L	1.0	0.23	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	24	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	795	mg/L	50	50	SM2320B-2011	#
Chloride	74.5	mg/L	5.0	2.2	SW846 9056A	#
pH	8.31	pH_Units			S4500HB-11	#
Specific Conductance	1490	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	4.2J	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	826	mg/L	25	25	SM2540C-15	#
Turbidity	110	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-37	Collected	12/10/2024 14:30
Lab Sample ID	3391582003	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.068	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.070	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	135	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	136	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	5.5	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	5.8	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	40.7	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	41.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.1	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.2	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	15.3	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	15.6	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.013J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	41.5	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	42.3	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Acenaphthene	0.64J	ug/L	1.5	0.25	SW846 8270E	#
Carbazole	0.85J	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	1.0J	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	0.55J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	0.52J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	1.1J	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	0.39J	ug/L	1.5	0.25	SW846 8270E	#
Pyrene	0.46J	ug/L	1.5	0.25	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	15	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	481	mg/L	50	50	SM2320B-2011	#
Chloride	55.2	mg/L	5.0	2.2	SW846 9056A	#
pH	8.29	pH_Units			S4500HB-11	#
Specific Conductance	1070	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	82.2	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	678	mg/L	25	25	SM2540C-15	#
Turbidity	70	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-45	Collected	12/10/2024 16:10
Lab Sample ID	3391582004	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.044J	mg/L	0.11	0.036	SW846 6010C	#
Antimony, Total	0.010J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Total	0.0040J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.045	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.045	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	163	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	171	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	2.1	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	2.4	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	34.3	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	34.9	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.72	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.82	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	12.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	13.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	28.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	29.7	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	0.67J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	0.59J	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	60.4	ug/L	3.0	0.90	SW846 8270E	#
Fluorene	0.71J	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	23.3	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	10.4	ug/L	1.5	0.65	SW846 8270E	#
o-Cresol	18.5	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	0.82J	ug/L	1.5	0.25	SW846 8270E	#
Phenol	156	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	27600	ug/L	500	115	SW846 8260D	#
Chloromethane	17.2J	ug/L	50.0	15.5	SW846 8260D	#
Ethylbenzene	27.3J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	413	ug/L	100	26.0	SW846 8260D	#
o-Xylene	180	ug/L	50.0	16.5	SW846 8260D	#
Toluene	2510	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	593	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	25	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	213	mg/L	5	5	SM2320B-2011	#
Chloride	11.4	mg/L	5.0	2.2	SW846 9056A	#
pH	8.04	pH_Units			S4500HB-11	#
Specific Conductance	1090	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	379	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	838	mg/L	25	25	SM2540C-15	#
Turbidity	23	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-17	Collected	12/10/2024 14:20
Lab Sample ID	3391582005	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.090	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.10	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	357	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	358	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0028J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0032J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	21.1	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	21.3	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	52.8	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	53.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.98	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.0	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	14.5	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	14.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	27.8	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	28.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	0.51J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	0.42J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	0.83J	ug/L	1.5	0.25	SW846 8270E	#
Carbazole	0.82J	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	0.38J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	0.86J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	5.8	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	0.51J	ug/L	1.5	0.25	SW846 8270E	#
Pyrene	0.25J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	0.73J	ug/L	1.0	0.23	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	105	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	1050	mg/L	50	50	SM2320B-2011	#
Chloride	23.5	mg/L	5.0	2.2	SW846 9056A	#
pH	8.11	pH_Units			S4500HB-11	#
Specific Conductance	2070	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	206	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1260	mg/L	25	25	SM2540C-15	#
Turbidity	220	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-13	Collected	12/10/2024 15:50
Lab Sample ID	3391582006	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Dissolved	75.5	mg/L	0.56	0.18	SW846 6010C	#
Aluminum, Total	77.6	mg/L	0.40	0.13	SW846 6010C	#
Arsenic, Total	0.019J	mg/L	0.032	0.013	SW846 6010C	#
Barium, Total	0.066	mg/L	0.040	0.013	SW846 6010C	#
Beryllium, Dissolved	0.010J	mg/L	0.022	0.0070	SW846 6010C	#
Beryllium, Total	0.0064J	mg/L	0.016	0.0050	SW846 6010C	#
Cadmium, Total	0.0060J	mg/L	0.0079	0.0026	SW846 6010C	#
Calcium, Dissolved	544	mg/L	0.56	0.18	SW846 6010C	#
Calcium, Total	524	mg/L	0.40	0.13	SW846 6010C	#
Chromium, Dissolved	0.16	mg/L	0.028	0.010	SW846 6010C	#
Chromium, Total	0.16	mg/L	0.020	0.0072	SW846 6010C	#
Cobalt, Dissolved	0.077	mg/L	0.028	0.010	SW846 6010C	#
Cobalt, Total	0.059	mg/L	0.020	0.0072	SW846 6010C	#
Copper, Total	0.016J	mg/L	0.040	0.013	SW846 6010C	#
Iron, Dissolved	231	mg/L	0.33	0.11	SW846 6010C	#
Iron, Total	229	mg/L	0.24	0.079	SW846 6010C	#
Lead, Dissolved	0.85	mg/L	0.033	0.011	SW846 6010C	#
Lead, Total	0.87	mg/L	0.024	0.0079	SW846 6010C	#
Magnesium, Dissolved	46.9	mg/L	0.56	0.18	SW846 6010C	#
Magnesium, Total	47.3	mg/L	0.40	0.13	SW846 6010C	#
Manganese, Dissolved	10.1	mg/L	0.028	0.010	SW846 6010C	#
Manganese, Total	10.3	mg/L	0.020	0.0072	SW846 6010C	#
Nickel, Dissolved	0.063J	mg/L	0.11	0.037	SW846 6010C	#
Nickel, Total	0.083	mg/L	0.079	0.026	SW846 6010C	#
Potassium, Dissolved	3.5	mg/L	2.8	0.90	SW846 6010C	#
Potassium, Total	3.8	mg/L	2.0	0.65	SW846 6010C	#
Sodium, Dissolved	104	mg/L	2.8	0.90	SW846 6010C	#
Sodium, Total	106	mg/L	2.0	0.65	SW846 6010C	#
Vanadium, Dissolved	0.062	mg/L	0.028	0.010	SW846 6010C	#
Vanadium, Total	0.057	mg/L	0.020	0.0072	SW846 6010C	#
Zinc, Dissolved	0.79	mg/L	0.11	0.037	SW846 6010C	#
Zinc, Total	0.77	mg/L	0.079	0.026	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	60.3	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	2.1	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	5990	ug/L	300	90.0	SW846 8270E	#
Carbazole	0.62J	ug/L	3.0	0.25	SW846 8270E	#
Fluorene	0.67J	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	440	ug/L	300	50.0	SW846 8270E	#
Naphthalene	57.1	ug/L	1.5	0.65	SW846 8270E	#
o-Cresol	77.4	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	0.59J	ug/L	1.5	0.25	SW846 8270E	#
Phenol	589J	ug/L	800	50.0	SW846 8270E	#
VOLATILE ORGANICS						
1,3,5-Trimethylbenzene	80.3J	ug/L	200	40.0	SW846 8260D	#
Benzene	629000	ug/L	10000	2300	SW846 8260D	#

Detected Results Summary

Sample - MW-13 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Carbon Disulfide	400	ug/L	200	46.0	SW846 8260D	#
mp-Xylene	2790	ug/L	400	104	SW846 8260D	#
o-Xylene	679	ug/L	200	66.0	SW846 8260D	#
Toluene	72900	ug/L	2500	575	SW846 8260D	#
Total Xylenes	3470	ug/L	600	132	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	832	mg/L	5	5	SM2310B-2011	#
Chloride	24.1	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	0.90J	mg/L	2.5	0.80	SW846 9056A	#
pH	2.44	pH_Units			S4500HB-11	#
Specific Conductance	7190	umhos/cm	50	1	SW846 9050A	#
Sulfate	2310	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	4240	mg/L	25	25	SM2540C-15	#
Turbidity	36	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-12	Collected	12/10/2024 09:15
Lab Sample ID	3391582007	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.041	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.037	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.064	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.065	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	293	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	297	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0027J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0030J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0063J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	2.0	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	2.4	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	124	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	128	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.2	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.3	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	16.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	17.1	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0077J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	134	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	135	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	19.4	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	6.7	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	3.5	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	8.5	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	3.4	ug/L	3.0	0.90	SW846 8270E	#
Anthracene	0.28J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	1.7J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	3.4	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	4.6	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	1.8	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	2.9	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	14.3	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	439	ug/L	6.0	2.6	SW846 8270E	#
o-Cresol	23.0	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	3.5	ug/L	1.5	0.25	SW846 8270E	#
Phenol	26.7	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	0.98J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	4890	ug/L	1000	230	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	64	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	1050	mg/L	50	50	SM2320B-2011	#
Chloride	148	mg/L	5.0	2.2	SW846 9056A	#
pH	8.07	pH_Units			S4500HB-11	#

Detected Results Summary

Sample - MW-12 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Specific Conductance	3090	umhos/cm	50	1	SW846 9050A	#
Sulfate	328	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1730	mg/L	25	25	SM2540C-15	#
Turbidity	35	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-15	Collected	12/10/2024 11:15
Lab Sample ID	3391582008	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.083	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.087	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	78.1	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	79.9	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	6.3	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	6.8	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	65.5	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	67.8	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.87	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.91	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	38.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	39.4	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0077J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	29.1	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	30.0	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	708	ug/L	60.0	10.0	SW846 8270E	#
2-Methylnaphthalene	178	ug/L	30.0	5.0	SW846 8270E	#
Acenaphthene	16.3	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	274	ug/L	30.0	5.0	SW846 8270E	#
Anthracene	15.8	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)pyrene	0.32J	ug/L	1.5	0.26	SW846 8270E	#
Biphenyl	30.6	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	213	ug/L	60.0	5.0	SW846 8270E	#
Chrysene	0.51J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	74.6	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	12.6	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	89.7	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	2040	ug/L	60.0	10.0	SW846 8270E	#
Naphthalene	4430	ug/L	150	65.0	SW846 8270E	#
o-Cresol	1140	ug/L	60.0	10.0	SW846 8270E	#
Phenanthrene	83.2	ug/L	1.5	0.25	SW846 8270E	#
Phenol	1760	ug/L	160	10.0	SW846 8270E	#
Pyrene	9.0	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	61.3	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	47.0J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	23200	ug/L	500	115	SW846 8260D	#
Ethylbenzene	37.8J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	568	ug/L	100	26.0	SW846 8260D	#
o-Xylene	221	ug/L	50.0	16.5	SW846 8260D	#
Styrene	55.4	ug/L	50.0	12.0	SW846 8260D	#
Toluene	2480	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	789	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						

Detected Results Summary

Sample - MW-15 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Acidity, Total	26	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	238	mg/L	5	5	SM2320B-2011	#
Chloride	22.3	mg/L	5.0	2.2	SW846 9056A	#
pH	8.09	pH_Units			S4500HB-11	#
Specific Conductance	1140	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	322	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	778	mg/L	25	25	SM2540C-15	#
Turbidity	31	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-15-Dup	Collected	12/10/2024 11:30
Lab Sample ID	3391582009	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.083	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.086	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	78.1	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	79.3	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	6.4	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	6.8	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	65.8	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	67.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.87	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.90	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	38.0	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	39.4	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	28.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	29.9	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	772	ug/L	30.0	5.0	SW846 8270E	#
2-Methylnaphthalene	185	ug/L	15.0	2.5	SW846 8270E	#
Acenaphthene	16.4	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	249	ug/L	15.0	2.5	SW846 8270E	#
Anthracene	13.8	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	0.74J	ug/L	1.5	0.28	SW846 8270E	#
Biphenyl	30.1	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	218	ug/L	30.0	2.5	SW846 8270E	#
Chrysene	0.48J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	69.6	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	10.7	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	77.8	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	2070	ug/L	30.0	5.0	SW846 8270E	#
Naphthalene	5080	ug/L	300	130	SW846 8270E	#
o-Cresol	1240	ug/L	30.0	5.0	SW846 8270E	#
Phenanthrene	79.6	ug/L	1.5	0.25	SW846 8270E	#
Phenol	1720	ug/L	80.0	5.0	SW846 8270E	#
Pyrene	7.6	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	59.3	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	47.6J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	23100	ug/L	500	115	SW846 8260D	#
Ethylbenzene	33.9J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	530	ug/L	100	26.0	SW846 8260D	#
o-Xylene	212	ug/L	50.0	16.5	SW846 8260D	#
Styrene	53.4	ug/L	50.0	12.0	SW846 8260D	#
Toluene	2300	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	743	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	18	mg/L	5	5	SM2310B-2011	#

Detected Results Summary

Sample - MW-15-Dup (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Alkalinity, Total	242	mg/L	5	5	SM2320B-2011	#
Chloride	22.3	mg/L	5.0	2.2	SW846 9056A	#
pH	8.14	pH_Units			S4500HB-11	#
Specific Conductance	1140	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	318	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	760	mg/L	25	25	SM2540C-15	#
Turbidity	31	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-16	Collected	12/10/2024 14:30
Lab Sample ID	3391582010	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.090	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.093	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	280	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	283	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0022J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	16.7	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	17.1	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	51.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	52.9	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.7	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.7	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	13.8	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	14.1	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.011J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	13.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	13.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	118	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	90.8	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	200	ug/L	30.0	5.0	SW846 8270E	#
Acenaphthylene	7.4	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	8.3	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	0.75J	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.27J	ug/L	1.5	0.26	SW846 8270E	#
Biphenyl	23.2	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	136	ug/L	60.0	5.0	SW846 8270E	#
Chrysene	0.35J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	84.1	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	9.1	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	92.2	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	120	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	3620	ug/L	30.0	13.0	SW846 8270E	#
o-Cresol	146	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	65.6	ug/L	1.5	0.25	SW846 8270E	#
Phenol	201	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	5.8	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	43.4J	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	26.8J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	13100	ug/L	500	115	SW846 8260D	#
Ethylbenzene	34.5J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	344	ug/L	100	26.0	SW846 8260D	#
o-Xylene	141	ug/L	50.0	16.5	SW846 8260D	#
Toluene	217	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	485	ug/L	150	33.0	SW846 8260D	#

Detected Results Summary

Sample - MW-16 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Acidity, Total	41	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	688	mg/L	50	50	SM2320B-2011	#
Chloride	7.1	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	0.97J	mg/L	2.5	0.80	SW846 9056A	#
pH	8.06	pH_Units			S4500HB-11	#
Specific Conductance	1540	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	295	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1060	mg/L	25	25	SM2540C-15	#
Turbidity	180	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-2	Collected	12/10/2024 15:45
Lab Sample ID	3391582011	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.11	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	181	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	185	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	0.79	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.84	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	99.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	103	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.5	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.6	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	19.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	20.1	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	15.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	16.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	1.2J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	214	ug/L	6.0	1.0	SW846 8270E	#
Anthracene	14.3	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	0.54J	ug/L	1.5	0.28	SW846 8270E	#
Carbazole	183	ug/L	12.0	1.0	SW846 8270E	#
Chrysene	0.29J	ug/L	1.5	0.26	SW846 8270E	#
Fluoranthene	13.7	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	144	ug/L	6.0	1.0	SW846 8270E	#
Naphthalene	113	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	114	ug/L	1.5	0.25	SW846 8270E	#
Phenol	9.1	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	9.4	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	13.2J	ug/L	50.0	12.5	SW846 8260D	#
Benzene	4050	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	27.6J	ug/L	50.0	17.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	63	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	872	mg/L	50	50	SM2320B-2011	#
Chloride	11.0	mg/L	5.0	2.2	SW846 9056A	#
pH	8.26	pH_Units			S4500HB-11	#
Specific Conductance	1490	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	17.0	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	836	mg/L	25	25	SM2540C-15	#
Turbidity	11	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	TB-41	Collected	12/10/2024 15:45
Lab Sample ID	3391582012	Lab Receipt	12/11/2024 09:21

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS						
Chloromethane	0.38J	ug/L	1.0	0.31	SW846 8260D	#

Results

Client Sample ID	MW-14	Collected	12/10/2024 09:35
Lab Sample ID	3391582001	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Aluminum, Total	0.053J	J,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:43	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Arsenic, Dissolved	0.019	P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Arsenic, Total	0.018	P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 11:39	MSY	E1
Barium, Dissolved	0.14	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Barium, Total	0.14	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Calcium, Dissolved	233	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Calcium, Total	235	5,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Chromium, Total	0.0026J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 11:39	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Iron, Dissolved	10.2	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Iron, Total	10.6	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Magnesium, Dissolved	45.0	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Magnesium, Total	46.5	5,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Manganese, Dissolved	0.91	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Manganese, Total	0.94	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:05	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:35	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Potassium, Dissolved	8.0	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Potassium, Total	8.2	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Selenium, Dissolved	0.012J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Sodium, Dissolved	70.5	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Sodium, Total	71.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:07	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:46	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:07	MSY	E1

Results

Client Sample ID	MW-14	Collected	12/10/2024 09:35
Lab Sample ID	3391582001	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,4-Dimethylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 05:29	M1O	D
2-Methylnaphthalene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 05:29	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 05:29	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:29	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 05:29	M1O	D
Acenaphthene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Acenaphthylene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Acetophenone	1.7J	J,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 05:29	M1O	D
Anthracene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 05:29	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:29	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 05:29	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 05:29	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 05:29	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:29	M1O	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 05:29	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 05:29	M1O	D
Carbazole	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D

Results

Client Sample ID	MW-14	Collected	12/10/2024 09:35
Lab Sample ID	3391582001	Lab Receipt	12/11/2024 09:21

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:29	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 05:29	M1O	D
Dibenzofuran	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:29	M1O	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Fluoranthene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Fluorene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 05:29	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 05:29	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 05:29	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:29	M1O	D
mp-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
Naphthalene	2.2	P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 05:29	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 05:29	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 05:29	M1O	D
o-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 05:29	M1O	D
Phenanthrene	0.29J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D
Phenol	ND	ND,P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 05:29	M1O	D
Pyrene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:29	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	87.7%	23 – 131	12/13/2024 05:29	
2-Fluorobiphenyl	321-60-8	79%	24 – 116	12/13/2024 05:29	
2-Fluorophenol	367-12-4	61.3%	10 – 85	12/13/2024 05:29	
Nitrobenzene-d5	4165-60-0	87.5%	32 – 125	12/13/2024 05:29	
Phenol-d5	4165-62-2	47.5%	7 – 56	12/13/2024 05:29	
Terphenyl-d14	98904-43-9	44.4%	41 – 145	12/13/2024 05:29	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.93	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2.0	0.60	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.82	SW846 8260D	1	12/13/2024 15:41	TMP	A

Results

Client Sample ID	MW-14	Collected	12/10/2024 09:35
Lab Sample ID	3391582001	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	1.5	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.38	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.20	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 15:41	TMP	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 15:41	TMP	A
2-Butanone	ND	ND,P1	ug/L	10.0	1.8	SW846 8260D	1	12/13/2024 15:41	TMP	A
2-Hexanone	ND	ND,P1	ug/L	5.0	1.3	SW846 8260D	1	12/13/2024 15:41	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	1.5	SW846 8260D	1	12/13/2024 15:41	TMP	A
Acetone	ND	ND,P1	ug/L	10.0	3.1	SW846 8260D	1	12/13/2024 15:41	TMP	A
Benzene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 15:41	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 15:41	TMP	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 15:41	TMP	A
Bromoform	ND	ND,P1	ug/L	1.0	0.40	SW846 8260D	1	12/13/2024 15:41	TMP	A
Bromomethane	ND	ND,P1	ug/L	1.0	0.39	SW846 8260D	1	12/13/2024 15:41	TMP	A
Carbon Disulfide	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 15:41	TMP	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 15:41	TMP	A
Chlorobenzene	ND	ND,P1	ug/L	1.0	0.19	SW846 8260D	1	12/13/2024 15:41	TMP	A
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 15:41	TMP	A
Chloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 15:41	TMP	A
Chloroform	ND	ND,P1	ug/L	1.0	0.21	SW846 8260D	1	12/13/2024 15:41	TMP	A
Chloromethane	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 15:41	TMP	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 15:41	TMP	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 15:41	TMP	A
Cyclohexane	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 15:41	TMP	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 15:41	TMP	A
Ethylbenzene	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 15:41	TMP	A
Freon 113	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 15:41	TMP	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 15:41	TMP	A
Methyl acetate	ND	ND,P1	ug/L	2.0	0.32	SW846 8260D	1	12/13/2024 15:41	TMP	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 15:41	TMP	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 15:41	TMP	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 15:41	TMP	A
mp-Xylene	ND	ND,P1	ug/L	2.0	0.52	SW846 8260D	1	12/13/2024 15:41	TMP	A
o-Xylene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 15:41	TMP	A
Styrene	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 15:41	TMP	A
Tetrachloroethene	ND	ND,P1	ug/L	1.0	0.35	SW846 8260D	1	12/13/2024 15:41	TMP	A
Toluene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 15:41	TMP	A
Total Xylenes	ND	ND,P1	ug/L	3.0	0.66	SW846 8260D	1	12/13/2024 15:41	TMP	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 15:41	TMP	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 15:41	TMP	A
Trichloroethene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 15:41	TMP	A
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 15:41	TMP	A
Vinyl Chloride	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 15:41	TMP	A

Results

Client Sample ID	MW-14	Collected	12/10/2024 09:35
Lab Sample ID	3391582001	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/13/2024 15:41	
4-Bromofluorobenzene	460-00-4	96.7%	79 – 114	12/13/2024 15:41	
Dibromofluoromethane	1868-53-7	97.2%	78 – 116	12/13/2024 15:41	
Toluene-d8	2037-26-5	97.2%	76 – 127	12/13/2024 15:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	33	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	813	3,P1	mg/L	50	50	SM2320B-2011	10	12/16/2024 08:32	KMV	I
Chloride	108	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 18:35	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/11/2024 23:13	J1W	I
pH	8.13	4,P1	pH_Units			S4500HB-11	10	12/16/2024 08:32	KMV	I
Specific Conductance	1640	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	ND	ND,P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 18:35	J1W	I
Total Dissolved Solids	2290	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 15:30	RAG	I
Turbidity	110	P1	NTU	0.30	0.30	SM2130B-2011	1	12/11/2024 14:54	NPF	I

Results

Client Sample ID	MW-28	Collected	12/10/2024 10:55
Lab Sample ID	3391582002	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Antimony, Dissolved	ND	ND,7,8,9,P1	mg/L	0.022	0.010	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Antimony, Total	0.015J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Arsenic, Dissolved	0.054	P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Arsenic, Total	0.061	P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Barium, Dissolved	0.087	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Barium, Total	0.090	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Calcium, Dissolved	163	10,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Calcium, Total	165	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 11:49	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Iron, Dissolved	9.5	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Iron, Total	9.7	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Magnesium, Dissolved	70.8	11,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Magnesium, Total	72.8	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Manganese, Dissolved	0.91	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Manganese, Total	0.95	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:19	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:36	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Potassium, Dissolved	14.7	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Potassium, Total	15.2	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Selenium, Dissolved	0.011J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Sodium, Dissolved	67.2	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Sodium, Total	67.7	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:12	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:47	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:12	MSY	E1

Results

Client Sample ID	MW-28	Collected	12/10/2024 10:55
Lab Sample ID	3391582002	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,4-Dimethylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 05:55	M1O	D
2-Methylnaphthalene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 05:55	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 05:55	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:55	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 05:55	M1O	D
Acenaphthene	2.1	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Acenaphthylene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 05:55	M1O	D
Anthracene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 05:55	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:55	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 05:55	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 05:55	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 05:55	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:55	M1O	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 05:55	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 05:55	M1O	D
Carbazole	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D

Results

Client Sample ID	MW-28	Collected	12/10/2024 10:55
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:55	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 05:55	M1O	D
Dibenzofuran	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:55	M1O	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Fluoranthene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Fluorene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 05:55	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 05:55	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 05:55	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:55	M1O	D
mp-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
Naphthalene	1.5	P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 05:55	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 05:55	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 05:55	M1O	D
o-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 05:55	M1O	D
Phenanthrene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D
Phenol	ND	ND,P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 05:55	M1O	D
Pyrene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:55	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	52.9%	23 – 131	12/13/2024 05:55	
2-Fluorobiphenyl	321-60-8	67.4%	24 – 116	12/13/2024 05:55	
2-Fluorophenol	367-12-4	38.1%	10 – 85	12/13/2024 05:55	
Nitrobenzene-d5	4165-60-0	73.3%	32 – 125	12/13/2024 05:55	
Phenol-d5	4165-62-2	34.4%	7 – 56	12/13/2024 05:55	
Terphenyl-d14	98904-43-9	40.7*%	41 – 145	12/13/2024 05:55	6

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.93	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2.0	0.60	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.82	SW846 8260D	1	12/13/2024 16:01	TMP	A

Results

Client Sample ID	MW-28	Collected	12/10/2024 10:55
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	1.5	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.38	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.20	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 16:01	TMP	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 16:01	TMP	A
2-Butanone	ND	ND,P1	ug/L	10.0	1.8	SW846 8260D	1	12/13/2024 16:01	TMP	A
2-Hexanone	ND	ND,P1	ug/L	5.0	1.3	SW846 8260D	1	12/13/2024 16:01	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	1.5	SW846 8260D	1	12/13/2024 16:01	TMP	A
Acetone	ND	ND,P1	ug/L	10.0	3.1	SW846 8260D	1	12/13/2024 16:01	TMP	A
Benzene	2.8	P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:01	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:01	TMP	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 16:01	TMP	A
Bromoform	ND	ND,P1	ug/L	1.0	0.40	SW846 8260D	1	12/13/2024 16:01	TMP	A
Bromomethane	ND	ND,P1	ug/L	1.0	0.39	SW846 8260D	1	12/13/2024 16:01	TMP	A
Carbon Disulfide	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:01	TMP	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:01	TMP	A
Chlorobenzene	ND	ND,P1	ug/L	1.0	0.19	SW846 8260D	1	12/13/2024 16:01	TMP	A
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 16:01	TMP	A
Chloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:01	TMP	A
Chloroform	ND	ND,P1	ug/L	1.0	0.21	SW846 8260D	1	12/13/2024 16:01	TMP	A
Chloromethane	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:01	TMP	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:01	TMP	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:01	TMP	A
Cyclohexane	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:01	TMP	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:01	TMP	A
Ethylbenzene	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 16:01	TMP	A
Freon 113	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 16:01	TMP	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 16:01	TMP	A
Methyl acetate	ND	ND,P1	ug/L	2.0	0.32	SW846 8260D	1	12/13/2024 16:01	TMP	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 16:01	TMP	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:01	TMP	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 16:01	TMP	A
mp-Xylene	ND	ND,P1	ug/L	2.0	0.52	SW846 8260D	1	12/13/2024 16:01	TMP	A
o-Xylene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:01	TMP	A
Styrene	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:01	TMP	A
Tetrachloroethene	ND	ND,P1	ug/L	1.0	0.35	SW846 8260D	1	12/13/2024 16:01	TMP	A
Toluene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:01	TMP	A
Total Xylenes	ND	ND,P1	ug/L	3.0	0.66	SW846 8260D	1	12/13/2024 16:01	TMP	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 16:01	TMP	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:01	TMP	A
Trichloroethene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:01	TMP	A
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:01	TMP	A
Vinyl Chloride	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 16:01	TMP	A

Results

Client Sample ID	MW-28	Collected	12/10/2024 10:55
Lab Sample ID	3391582002	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/13/2024 16:01	
4-Bromofluorobenzene	460-00-4	98.5%	79 – 114	12/13/2024 16:01	
Dibromofluoromethane	1868-53-7	101%	78 – 116	12/13/2024 16:01	
Toluene-d8	2037-26-5	100%	76 – 127	12/13/2024 16:01	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	24	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	795	3,P1	mg/L	50	50	SM2320B-2011	10	12/18/2024 14:44	KMV	I
Chloride	74.5	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 18:48	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/11/2024 23:26	J1W	I
pH	8.31	4,P1	pH_Units			S4500HB-11	1	12/16/2024 09:32	KMV	I
Specific Conductance	1490	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	4.2J	J,P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 18:48	J1W	I
Total Dissolved Solids	826	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	110	P1	NTU	0.30	0.30	SM2130B-2011	1	12/11/2024 14:54	NPF	I

Results

Client Sample ID	MW-37	Collected	12/10/2024 14:30
Lab Sample ID	3391582003	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:44	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Barium, Dissolved	0.068	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Barium, Total	0.070	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Calcium, Dissolved	135	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Calcium, Total	136	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 11:50	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Iron, Dissolved	5.5	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Iron, Total	5.8	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Magnesium, Dissolved	40.7	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Magnesium, Total	41.7	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Manganese, Dissolved	1.1	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Manganese, Total	1.2	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:56	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:28	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Potassium, Dissolved	15.3	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Potassium, Total	15.6	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Selenium, Dissolved	0.013J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Sodium, Dissolved	41.5	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Sodium, Total	42.3	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:13	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:52	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:13	MSY	E1

Results

Client Sample ID	MW-37	Collected	12/10/2024 14:30
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,4-Dimethylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 04:04	M1O	D
2-Methylnaphthalene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 04:04	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 04:04	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:04	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 04:04	M1O	D
Acenaphthene	0.64J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Acenaphthylene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 04:04	M1O	D
Anthracene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 04:04	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 04:04	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 04:04	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 04:04	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 04:04	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:04	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 04:04	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 04:04	M1O	D

Results

Client Sample ID	MW-37	Collected	12/10/2024 14:30
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	0.85J	J,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 04:04	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 04:04	M1O	D
Dibenzofuran	1.0J	J,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 04:04	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Fluoranthene	0.55J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Fluorene	0.52J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 04:04	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 04:04	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 04:04	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 04:04	M1O	D
mp-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
Naphthalene	1.1J	J,P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 04:04	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 04:04	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 04:04	M1O	D
o-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 04:04	M1O	D
Phenanthrene	0.39J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D
Phenol	ND	ND,P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 04:04	M1O	D
Pyrene	0.46J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:04	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	69.3%	23 – 131	12/13/2024 04:04	
2-Fluorobiphenyl	321-60-8	63%	24 – 116	12/13/2024 04:04	
2-Fluorophenol	367-12-4	38.9%	10 – 85	12/13/2024 04:04	
Nitrobenzene-d5	4165-60-0	64.6%	32 – 125	12/13/2024 04:04	
Phenol-d5	4165-62-2	31.1%	7 – 56	12/13/2024 04:04	
Terphenyl-d14	98904-43-9	43.8%	41 – 145	12/13/2024 04:04	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.93	SW846 8260D	1	12/13/2024 16:21	TMP	A

Results

Client Sample ID	MW-37	Collected	12/10/2024 14:30
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2.0	0.60	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.82	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	1.5	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.38	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.20	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 16:21	TMP	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 16:21	TMP	A
2-Butanone	ND	ND,P1	ug/L	10.0	1.8	SW846 8260D	1	12/13/2024 16:21	TMP	A
2-Hexanone	ND	ND,P1	ug/L	5.0	1.3	SW846 8260D	1	12/13/2024 16:21	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	1.5	SW846 8260D	1	12/13/2024 16:21	TMP	A
Acetone	ND	ND,P1	ug/L	10.0	3.1	SW846 8260D	1	12/13/2024 16:21	TMP	A
Benzene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:21	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:21	TMP	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 16:21	TMP	A
Bromoform	ND	ND,P1	ug/L	1.0	0.40	SW846 8260D	1	12/13/2024 16:21	TMP	A
Bromomethane	ND	ND,P1	ug/L	1.0	0.39	SW846 8260D	1	12/13/2024 16:21	TMP	A
Carbon Disulfide	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:21	TMP	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:21	TMP	A
Chlorobenzene	ND	ND,P1	ug/L	1.0	0.19	SW846 8260D	1	12/13/2024 16:21	TMP	A
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 16:21	TMP	A
Chloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:21	TMP	A
Chloroform	ND	ND,P1	ug/L	1.0	0.21	SW846 8260D	1	12/13/2024 16:21	TMP	A
Chloromethane	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:21	TMP	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:21	TMP	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:21	TMP	A
Cyclohexane	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:21	TMP	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:21	TMP	A
Ethylbenzene	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 16:21	TMP	A
Freon 113	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 16:21	TMP	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 16:21	TMP	A
Methyl acetate	ND	ND,P1	ug/L	2.0	0.32	SW846 8260D	1	12/13/2024 16:21	TMP	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 16:21	TMP	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:21	TMP	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 16:21	TMP	A
mp-Xylene	ND	ND,P1	ug/L	2.0	0.52	SW846 8260D	1	12/13/2024 16:21	TMP	A
o-Xylene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:21	TMP	A
Styrene	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:21	TMP	A
Tetrachloroethene	ND	ND,P1	ug/L	1.0	0.35	SW846 8260D	1	12/13/2024 16:21	TMP	A
Toluene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:21	TMP	A
Total Xylenes	ND	ND,P1	ug/L	3.0	0.66	SW846 8260D	1	12/13/2024 16:21	TMP	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 16:21	TMP	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:21	TMP	A
Trichloroethene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:21	TMP	A

Results

Client Sample ID	MW-37	Collected	12/10/2024 14:30
Lab Sample ID	3391582003	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:21	TMP	A
Vinyl Chloride	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 16:21	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/13/2024 16:21	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	12/13/2024 16:21	
Dibromofluoromethane	1868-53-7	96.8%	78 – 116	12/13/2024 16:21	
Toluene-d8	2037-26-5	98.7%	76 – 127	12/13/2024 16:21	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	15	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	481	3,P1	mg/L	50	50	SM2320B-2011	10	12/18/2024 14:55	KMV	I
Chloride	55.2	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:01	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/11/2024 23:39	J1W	I
pH	8.29	4,P1	pH_Units			S4500HB-11	1	12/16/2024 09:49	KMV	I
Specific Conductance	1070	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	82.2	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 19:01	J1W	I
Total Dissolved Solids	678	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	70	P1	NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 08:26	NPF	I

Results

Client Sample ID	MW-45	Collected	12/10/2024 16:10
Lab Sample ID	3391582004	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Aluminum, Total	0.044J	J,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:45	MSY	G1
Antimony, Total	0.010J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Arsenic, Total	0.0040J	J,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Barium, Dissolved	0.045	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Barium, Total	0.045	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Calcium, Dissolved	163	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Calcium, Total	171	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 11:51	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Iron, Dissolved	2.1	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Iron, Total	2.4	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Magnesium, Dissolved	34.3	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Magnesium, Total	34.9	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Manganese, Dissolved	0.72	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Manganese, Total	0.82	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:06	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:29	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Potassium, Dissolved	12.7	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Potassium, Total	13.0	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Sodium, Dissolved	28.2	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Sodium, Total	29.7	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:19	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:53	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:19	MSY	E1

Results

Client Sample ID	MW-45	Collected	12/10/2024 16:10
Lab Sample ID	3391582004	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,4-Dimethylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 05:42	M1O	D
2-Methylnaphthalene	0.67J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 05:42	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 05:42	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:42	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 05:42	M1O	D
Acenaphthene	0.59J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Acenaphthylene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Acetophenone	60.4	P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 05:42	M1O	D
Anthracene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 05:42	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:42	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 05:42	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 05:42	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 05:42	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:42	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 05:42	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 05:42	M1O	D

Results

Client Sample ID	MW-45	Collected	12/10/2024 16:10
Lab Sample ID	3391582004	Lab Receipt	12/11/2024 09:21

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:42	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 05:42	M1O	D
Dibenzofuran	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:42	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Fluoranthene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Fluorene	0.71J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 05:42	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 05:42	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 05:42	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:42	M1O	D
mp-Cresol	23.3	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
Naphthalene	10.4	P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 05:42	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 05:42	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 05:42	M1O	D
o-Cresol	18.5	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 05:42	M1O	D
Phenanthrene	0.82J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D
Phenol	156	P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 05:42	M1O	D
Pyrene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:42	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	71.3%	23 – 131	12/13/2024 05:42	
2-Fluorobiphenyl	321-60-8	71.4%	24 – 116	12/13/2024 05:42	
2-Fluorophenol	367-12-4	44.1%	10 – 85	12/13/2024 05:42	
Nitrobenzene-d5	4165-60-0	79.2%	32 – 125	12/13/2024 05:42	
Phenol-d5	4165-62-2	39.1%	7 – 56	12/13/2024 05:42	
Terphenyl-d14	98904-43-9	41.1%	41 – 145	12/13/2024 05:42	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	100	46.5	SW846 8260D	50	12/17/2024 05:33	PDK	A

Results

Client Sample ID	MW-45	Collected	12/10/2024 16:10
Lab Sample ID	3391582004	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,3-Trichloropropane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	100	41.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	350	75.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	50.0	19.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	50.0	10.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
2-Butanone	ND	ND,P1	ug/L	500	90.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
2-Hexanone	ND	ND,P1	ug/L	250	65.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	250	75.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Acetone	ND	ND,P1	ug/L	500	155	SW846 8260D	50	12/17/2024 05:33	PDK	A
Benzene	27600	P1	ug/L	500	115	SW846 8260D	500	12/19/2024 13:41	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Bromoform	ND	ND,P1	ug/L	50.0	20.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Bromomethane	ND	ND,P1	ug/L	50.0	19.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	50.0	9.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Chloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Chloroform	ND	ND,P1	ug/L	50.0	10.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Chloromethane	17.2J	J,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Cyclohexane	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Ethylbenzene	27.3J	J,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Freon 113	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Methyl acetate	ND	ND,P1	ug/L	100	16.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
mp-Xylene	413	P1	ug/L	100	26.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
o-Xylene	180	P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Styrene	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Tetrachloroethene	ND	ND,P1	ug/L	50.0	17.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Toluene	2510	P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Total Xylenes	593	P1	ug/L	150	33.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:33	PDK	A
Trichloroethene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:33	PDK	A

Results

Client Sample ID	MW-45	Collected	12/10/2024 16:10
Lab Sample ID	3391582004	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Trichlorofluoromethane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:33	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 05:33	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/17/2024 05:33	
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	12/19/2024 13:41	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	12/17/2024 05:33	
4-Bromofluorobenzene	460-00-4	98.4%	79 – 114	12/19/2024 13:41	
Dibromofluoromethane	1868-53-7	99.1%	78 – 116	12/17/2024 05:33	
Dibromofluoromethane	1868-53-7	97.6%	78 – 116	12/19/2024 13:41	
Toluene-d8	2037-26-5	100%	76 – 127	12/17/2024 05:33	
Toluene-d8	2037-26-5	99.1%	76 – 127	12/19/2024 13:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	25	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	213	3,P1	mg/L	5	5	SM2320B-2011	1	12/16/2024 10:01	KMV	I
Chloride	11.4	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:14	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/11/2024 23:52	J1W	I
pH	8.04	4,P1	pH_Units			S4500HB-11	1	12/16/2024 10:01	KMV	I
Specific Conductance	1090	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	379	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 19:14	J1W	I
Total Dissolved Solids	838	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	23	P1	NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 08:26	NPF	I

Results

Client Sample ID	MW-17	Collected	12/10/2024 14:20
Lab Sample ID	3391582005	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:46	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Arsenic, Dissolved	0.090	P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Arsenic, Total	0.10	P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Barium, Dissolved	0.12	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Barium, Total	0.12	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Calcium, Dissolved	357	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Calcium, Total	358	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Chromium, Dissolved	0.0028J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Chromium, Total	0.0032J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 11:52	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Iron, Dissolved	21.1	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Iron, Total	21.3	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Magnesium, Dissolved	52.8	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Magnesium, Total	53.7	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Manganese, Dissolved	0.98	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Manganese, Total	1.0	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:00	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:43	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Potassium, Dissolved	14.5	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Potassium, Total	14.6	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Sodium, Dissolved	27.8	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Sodium, Total	28.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:20	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 14:54	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:20	MSY	E1

Results

Client Sample ID	MW-17	Collected	12/10/2024 14:20
Lab Sample ID	3391582005	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,4-Dimethylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 03:40	M1O	D
2-Methylnaphthalene	0.51J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 03:40	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 03:40	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 03:40	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 03:40	M1O	D
Acenaphthene	0.42J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Acenaphthylene	0.83J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 03:40	M1O	D
Anthracene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 03:40	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 03:40	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 03:40	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 03:40	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 03:40	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 03:40	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 03:40	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 03:40	M1O	D

Results

Client Sample ID	MW-17	Collected	12/10/2024 14:20
Lab Sample ID	3391582005	Lab Receipt	12/11/2024 09:21

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	0.82J	J,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 03:40	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 03:40	M1O	D
Dibenzofuran	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 03:40	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Fluoranthene	0.38J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Fluorene	0.86J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 03:40	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 03:40	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 03:40	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 03:40	M1O	D
mp-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
Naphthalene	5.8	P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 03:40	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 03:40	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 03:40	M1O	D
o-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 03:40	M1O	D
Phenanthrene	0.51J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D
Phenol	ND	ND,P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 03:40	M1O	D
Pyrene	0.25J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:40	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	71.7%	23 – 131	12/13/2024 03:40	
2-Fluorobiphenyl	321-60-8	68.8%	24 – 116	12/13/2024 03:40	
2-Fluorophenol	367-12-4	39.6%	10 – 85	12/13/2024 03:40	
Nitrobenzene-d5	4165-60-0	69.7%	32 – 125	12/13/2024 03:40	
Phenol-d5	4165-62-2	34.7%	7 – 56	12/13/2024 03:40	
Terphenyl-d14	98904-43-9	47.3%	41 – 145	12/13/2024 03:40	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.93	SW846 8260D	1	12/13/2024 16:40	TMP	A

Results

Client Sample ID	MW-17	Collected	12/10/2024 14:20
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2.0	0.60	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.82	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	1.5	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.38	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.20	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/13/2024 16:40	TMP	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 16:40	TMP	A
2-Butanone	ND	ND,P1	ug/L	10.0	1.8	SW846 8260D	1	12/13/2024 16:40	TMP	A
2-Hexanone	ND	ND,P1	ug/L	5.0	1.3	SW846 8260D	1	12/13/2024 16:40	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	1.5	SW846 8260D	1	12/13/2024 16:40	TMP	A
Acetone	ND	ND,P1	ug/L	10.0	3.1	SW846 8260D	1	12/13/2024 16:40	TMP	A
Benzene	0.73J	J,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:40	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:40	TMP	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/13/2024 16:40	TMP	A
Bromoform	ND	ND,P1	ug/L	1.0	0.40	SW846 8260D	1	12/13/2024 16:40	TMP	A
Bromomethane	ND	ND,P1	ug/L	1.0	0.39	SW846 8260D	1	12/13/2024 16:40	TMP	A
Carbon Disulfide	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:40	TMP	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:40	TMP	A
Chlorobenzene	ND	ND,P1	ug/L	1.0	0.19	SW846 8260D	1	12/13/2024 16:40	TMP	A
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 16:40	TMP	A
Chloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:40	TMP	A
Chloroform	ND	ND,P1	ug/L	1.0	0.21	SW846 8260D	1	12/13/2024 16:40	TMP	A
Chloromethane	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:40	TMP	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/13/2024 16:40	TMP	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/13/2024 16:40	TMP	A
Cyclohexane	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:40	TMP	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:40	TMP	A
Ethylbenzene	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/13/2024 16:40	TMP	A
Freon 113	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 16:40	TMP	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/13/2024 16:40	TMP	A
Methyl acetate	ND	ND,P1	ug/L	2.0	0.32	SW846 8260D	1	12/13/2024 16:40	TMP	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 16:40	TMP	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:40	TMP	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/13/2024 16:40	TMP	A
mp-Xylene	ND	ND,P1	ug/L	2.0	0.52	SW846 8260D	1	12/13/2024 16:40	TMP	A
o-Xylene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:40	TMP	A
Styrene	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:40	TMP	A
Tetrachloroethene	ND	ND,P1	ug/L	1.0	0.35	SW846 8260D	1	12/13/2024 16:40	TMP	A
Toluene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/13/2024 16:40	TMP	A
Total Xylenes	ND	ND,P1	ug/L	3.0	0.66	SW846 8260D	1	12/13/2024 16:40	TMP	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/13/2024 16:40	TMP	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/13/2024 16:40	TMP	A
Trichloroethene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/13/2024 16:40	TMP	A

Results

Client Sample ID	MW-17	Collected	12/10/2024 14:20
Lab Sample ID	3391582005	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/13/2024 16:40	TMP	A
Vinyl Chloride	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/13/2024 16:40	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/13/2024 16:40	
4-Bromofluorobenzene	460-00-4	98.4%	79 – 114	12/13/2024 16:40	
Dibromofluoromethane	1868-53-7	99.5%	78 – 116	12/13/2024 16:40	
Toluene-d8	2037-26-5	98.7%	76 – 127	12/13/2024 16:40	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	105	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	1050	3,P1	mg/L	50	50	SM2320B-2011	10	12/18/2024 15:06	KMV	I
Chloride	23.5	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:27	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 00:05	J1W	I
pH	8.11	4,P1	pH_Units			S4500HB-11	1	12/16/2024 10:13	KMV	I
Specific Conductance	2070	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	206	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 19:27	J1W	I
Total Dissolved Solids	1260	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	220	P1	NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 08:26	NPF	I

Results

Client Sample ID	MW-13	Collected	12/10/2024 15:50
Lab Sample ID	3391582006	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	75.5	P1	mg/L	0.56	0.18	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Aluminum, Total	77.6	P1	mg/L	0.40	0.13	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.11	0.050	SW846 6010C	5	01/03/2025 10:50	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.079	0.026	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.045	0.015	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Arsenic, Total	0.019J	J,P1	mg/L	0.032	0.013	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Barium, Dissolved	ND	ND,P1	mg/L	0.056	0.018	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Barium, Total	0.066	P1	mg/L	0.040	0.013	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Beryllium, Dissolved	0.010J	J,P1	mg/L	0.022	0.0070	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Beryllium, Total	0.0064J	J,P1	mg/L	0.016	0.0050	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.011	0.0037	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Cadmium, Total	0.0060J	J,P1	mg/L	0.0079	0.0026	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Calcium, Dissolved	544	P1	mg/L	0.56	0.18	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Calcium, Total	524	P1	mg/L	0.40	0.13	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Chromium, Dissolved	0.16	P1	mg/L	0.028	0.010	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Chromium, Total	0.16	P1	mg/L	0.020	0.0072	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Cobalt, Dissolved	0.077	P1	mg/L	0.028	0.010	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Cobalt, Total	0.059	P1	mg/L	0.020	0.0072	SW846 6010C	2	12/30/2024 11:58	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.056	0.018	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Copper, Total	0.016J	J,P1	mg/L	0.040	0.013	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Iron, Dissolved	231	P1	mg/L	0.33	0.11	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Iron, Total	229	P1	mg/L	0.24	0.079	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Lead, Dissolved	0.85	P1	mg/L	0.033	0.011	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Lead, Total	0.87	P1	mg/L	0.024	0.0079	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Magnesium, Dissolved	46.9	P1	mg/L	0.56	0.18	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Magnesium, Total	47.3	P1	mg/L	0.40	0.13	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Manganese, Dissolved	10.1	P1	mg/L	0.028	0.010	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Manganese, Total	10.3	P1	mg/L	0.020	0.0072	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:07	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:32	AJN	E2
Nickel, Dissolved	0.063J	J,P1	mg/L	0.11	0.037	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Nickel, Total	0.083	P1	mg/L	0.079	0.026	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Potassium, Dissolved	3.5	P1	mg/L	2.8	0.90	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Potassium, Total	3.8	P1	mg/L	2.0	0.65	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.11	0.037	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.079	0.026	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.022	0.0070	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.016	0.0050	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Sodium, Dissolved	104	P1	mg/L	2.8	0.90	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Sodium, Total	106	P1	mg/L	2.0	0.65	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.11	0.037	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.079	0.026	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Vanadium, Dissolved	0.062	P1	mg/L	0.028	0.010	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Vanadium, Total	0.057	P1	mg/L	0.020	0.0072	SW846 6010C	2	12/20/2024 10:21	MSY	E1
Zinc, Dissolved	0.79	P1	mg/L	0.11	0.037	SW846 6010C	5	12/30/2024 15:25	MSY	G1
Zinc, Total	0.77	P1	mg/L	0.079	0.026	SW846 6010C	2	12/20/2024 10:21	MSY	E1

Results

Client Sample ID	MW-13	Collected	12/10/2024 15:50
Lab Sample ID	3391582006	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,4-Dimethylphenol	60.3	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 05:17	M1O	D
2-Methylnaphthalene	2.1	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 05:17	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 05:17	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:17	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 05:17	M1O	D
Acenaphthene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Acenaphthylene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Acetophenone	5990	P1	ug/L	300	90.0	SW846 8270E	100	12/13/2024 22:11	CGS	D
Anthracene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 05:17	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:17	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 05:17	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 05:17	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 05:17	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:17	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 05:17	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 05:17	M1O	D

Results

Client Sample ID	MW-13	Collected	12/10/2024 15:50
Lab Sample ID	3391582006	Lab Receipt	12/11/2024 09:21

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	0.62J	J,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:17	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 05:17	M1O	D
Dibenzofuran	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:17	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Fluoranthene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Fluorene	0.67J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 05:17	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 05:17	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 05:17	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:17	M1O	D
mp-Cresol	440	P1	ug/L	300	50.0	SW846 8270E	100	12/13/2024 22:11	CGS	D
Naphthalene	57.1	P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 05:17	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 05:17	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 05:17	M1O	D
o-Cresol	77.4	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:17	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 05:17	M1O	D
Phenanthrene	0.59J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D
Phenol	589J	J,P1	ug/L	800	50.0	SW846 8270E	100	12/13/2024 22:11	CGS	D
Pyrene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:17	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	70%	23 – 131	12/13/2024 05:17	
2,4,6-Tribromophenol	118-79-6	82.6%	23 – 131	12/13/2024 22:11	
2-Fluorobiphenyl	321-60-8	69.5%	24 – 116	12/13/2024 05:17	
2-Fluorobiphenyl	321-60-8	114%	24 – 116	12/13/2024 22:11	
2-Fluorophenol	367-12-4	79.3%	10 – 85	12/13/2024 05:17	
2-Fluorophenol	367-12-4	167*%	10 – 85	12/13/2024 22:11	15
Nitrobenzene-d5	4165-60-0	87.8%	32 – 125	12/13/2024 05:17	
Nitrobenzene-d5	4165-60-0	112%	32 – 125	12/13/2024 22:11	
Phenol-d5	4165-62-2	40.8%	7 – 56	12/13/2024 05:17	
Phenol-d5	4165-62-2	63*%	7 – 56	12/13/2024 22:11	16
Terphenyl-d14	98904-43-9	43%	41 – 145	12/13/2024 05:17	
Terphenyl-d14	98904-43-9	0*%	41 – 145	12/13/2024 22:11	17

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	MW-13	Collected	12/10/2024 15:50
Lab Sample ID	3391582006	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	200	44.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	200	68.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	200	66.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	200	56.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	200	58.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	400	186	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	400	120	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	400	164	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	200	50.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	1400	300	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	200	56.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	200	76.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	200	64.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	200	48.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,3,5-Trimethylbenzene	80.3J	J,P1	ug/L	200	40.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	200	50.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	200	54.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
2-Butanone	ND	ND,P1	ug/L	2000	360	SW846 8260D	200	12/17/2024 06:55	PDK	A
2-Hexanone	ND	ND,P1	ug/L	1000	260	SW846 8260D	200	12/17/2024 06:55	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	1000	300	SW846 8260D	200	12/17/2024 06:55	PDK	A
Acetone	ND	ND,P1	ug/L	2000	620	SW846 8260D	200	12/17/2024 06:55	PDK	A
Benzene	629000	P1	ug/L	10000	2300	SW846 8260D	10000	12/23/2024 16:03	ILY	A
Bromochloromethane	ND	ND,P1	ug/L	200	64.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	200	54.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Bromoform	ND	ND,P1	ug/L	200	80.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Bromomethane	ND	ND,P1	ug/L	200	78.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Carbon Disulfide	400	P1	ug/L	200	46.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	200	62.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	200	38.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	200	90.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Chloroethane	ND	ND,P1	ug/L	200	66.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Chloroform	ND	ND,P1	ug/L	200	42.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Chloromethane	ND	ND,P1	ug/L	200	62.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	200	64.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	200	62.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Cyclohexane	ND	ND,P1	ug/L	200	58.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	200	66.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Ethylbenzene	ND	ND,P1	ug/L	200	68.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Freon 113	ND	ND,P1	ug/L	200	52.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	200	44.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Methyl acetate	ND	ND,P1	ug/L	400	64.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	200	60.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	200	66.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	200	90.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
mp-Xylene	2790	P1	ug/L	400	104	SW846 8260D	200	12/17/2024 06:55	PDK	A
o-Xylene	679	P1	ug/L	200	66.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Styrene	ND	ND,P1	ug/L	200	48.0	SW846 8260D	200	12/17/2024 06:55	PDK	A

Results

Client Sample ID	MW-13	Collected	12/10/2024 15:50
Lab Sample ID	3391582006	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND,P1	ug/L	200	70.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Toluene	72900	P1	ug/L	2500	575	SW846 8260D	2500	12/19/2024 15:04	TMP	A
Total Xylenes	3470	P1	ug/L	600	132	SW846 8260D	200	12/17/2024 06:55	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	200	52.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	200	58.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Trichloroethene	ND	ND,P1	ug/L	200	66.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	200	48.0	SW846 8260D	200	12/17/2024 06:55	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	200	60.0	SW846 8260D	200	12/17/2024 06:55	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/23/2024 16:03	
1,2-Dichloroethane-d4	17060-07-0	97.3%	62 – 133	12/17/2024 06:55	
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/19/2024 15:04	
4-Bromofluorobenzene	460-00-4	97.8%	79 – 114	12/23/2024 16:03	
4-Bromofluorobenzene	460-00-4	97.7%	79 – 114	12/17/2024 06:55	
4-Bromofluorobenzene	460-00-4	95.4%	79 – 114	12/19/2024 15:04	
Dibromofluoromethane	1868-53-7	93.8%	78 – 116	12/23/2024 16:03	
Dibromofluoromethane	1868-53-7	101%	78 – 116	12/17/2024 06:55	
Dibromofluoromethane	1868-53-7	96.1%	78 – 116	12/19/2024 15:04	
Toluene-d8	2037-26-5	97.2%	76 – 127	12/23/2024 16:03	
Toluene-d8	2037-26-5	96.6%	76 – 127	12/17/2024 06:55	
Toluene-d8	2037-26-5	97.5%	76 – 127	12/19/2024 15:04	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	832	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	ND	ND,3,P1	mg/L	50	50	SM2320B-2011	10	12/16/2024 16:07	KMV	I
Chloride	24.1	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:40	J1W	I
Nitrate-N	0.90J	J,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 00:18	J1W	I
pH	2.44	4,P1	pH_Units			S4500HB-11	10	12/16/2024 16:07	KMV	I
Specific Conductance	7190	P1	umhos/cm	50	1	SW846 9050A	10	12/13/2024 10:41	KMV	I
Sulfate	2310	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 19:40	J1W	I
Total Dissolved Solids	4240	P1	mg/L	25	25	SM2540C-15	1	12/13/2024 16:45	RAG	I
Turbidity	36	P1	NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 08:26	NPF	I

Results

Client Sample ID	MW-12	Collected	12/10/2024 09:15
Lab Sample ID	3391582007	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:51	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Arsenic, Dissolved	0.041	P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Arsenic, Total	0.037	P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Barium, Dissolved	0.064	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Barium, Total	0.065	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Calcium, Dissolved	293	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Calcium, Total	297	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Chromium, Dissolved	0.0027J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Chromium, Total	0.0030J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 11:59	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Copper, Total	0.0063J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Iron, Dissolved	2.0	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Iron, Total	2.4	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Magnesium, Dissolved	124	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Magnesium, Total	128	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Manganese, Dissolved	1.2	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Manganese, Total	1.3	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:11	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:39	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Potassium, Dissolved	16.7	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Potassium, Total	17.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Selenium, Dissolved	0.0077J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Sodium, Dissolved	134	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Sodium, Total	135	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:05	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:22	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 10:51	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 11:59	MSY	E1

Results

Client Sample ID	MW-12	Collected	12/10/2024 09:15
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,4-Dimethylphenol	19.4	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 05:04	M1O	D
2-Methylnaphthalene	6.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 05:04	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 05:04	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:04	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 05:04	M1O	D
Acenaphthene	3.5	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Acenaphthylene	8.5	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Acetophenone	3.4	P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 05:04	M1O	D
Anthracene	0.28J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 05:04	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:04	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 05:04	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 05:04	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 05:04	M1O	D
Biphenyl	1.7J	J,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 05:04	M1O	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 05:04	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 05:04	M1O	D
Carbazole	3.4	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D

Results

Client Sample ID	MW-12	Collected	12/10/2024 09:15
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 05:04	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 05:04	M1O	D
Dibenzofuran	4.6	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:04	M1O	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Fluoranthene	1.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Fluorene	2.9	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 05:04	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 05:04	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 05:04	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 05:04	M1O	D
mp-Cresol	14.3	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
Naphthalene	439	P1	ug/L	6.0	2.6	SW846 8270E	4	12/13/2024 21:48	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 05:04	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 05:04	M1O	D
o-Cresol	23.0	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 05:04	M1O	D
Phenanthrene	3.5	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D
Phenol	26.7	P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 05:04	M1O	D
Pyrene	0.98J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 05:04	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	69.7%	23 – 131	12/13/2024 05:04	
2,4,6-Tribromophenol	118-79-6	60.6%	23 – 131	12/13/2024 21:48	
2-Fluorobiphenyl	321-60-8	65.6%	24 – 116	12/13/2024 05:04	
2-Fluorobiphenyl	321-60-8	62.7%	24 – 116	12/13/2024 21:48	
2-Fluorophenol	367-12-4	52.7%	10 – 85	12/13/2024 05:04	
2-Fluorophenol	367-12-4	46.9%	10 – 85	12/13/2024 21:48	
Nitrobenzene-d5	4165-60-0	71.4%	32 – 125	12/13/2024 05:04	
Nitrobenzene-d5	4165-60-0	61.9%	32 – 125	12/13/2024 21:48	
Phenol-d5	4165-62-2	42.3%	7 – 56	12/13/2024 05:04	
Phenol-d5	4165-62-2	38.5%	7 – 56	12/13/2024 21:48	
Terphenyl-d14	98904-43-9	27.8*%	41 – 145	12/13/2024 05:04	19
Terphenyl-d14	98904-43-9	26.3*%	41 – 145	12/13/2024 21:48	18

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1000	220	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1000	340	SW846 8260D	1000	12/13/2024 17:00	TMP	A

Results

Client Sample ID	MW-12	Collected	12/10/2024 09:15
Lab Sample ID	3391582007	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1000	330	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1000	280	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1000	290	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2000	930	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2000	600	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2000	820	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1000	250	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7000	1500	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1000	280	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1000	380	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1000	320	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1000	240	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1000	200	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1000	250	SW846 8260D	1000	12/13/2024 17:00	TMP	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1000	270	SW846 8260D	1000	12/13/2024 17:00	TMP	A
2-Butanone	ND	ND,P1	ug/L	10000	1800	SW846 8260D	1000	12/13/2024 17:00	TMP	A
2-Hexanone	ND	ND,P1	ug/L	5000	1300	SW846 8260D	1000	12/13/2024 17:00	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5000	1500	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Acetone	ND	ND,P1	ug/L	10000	3100	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Benzene	4890	P1	ug/L	1000	230	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	1000	320	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Bromodichloromethane	ND	ND,P1	ug/L	1000	270	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Bromoform	ND	ND,P1	ug/L	1000	400	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Bromomethane	ND	ND,P1	ug/L	1000	390	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Carbon Disulfide	ND	ND,P1	ug/L	1000	230	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1000	310	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Chlorobenzene	ND	ND,P1	ug/L	1000	190	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Chlorodibromomethane	ND	ND,P1	ug/L	1000	450	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Chloroethane	ND	ND,P1	ug/L	1000	330	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Chloroform	ND	ND,P1	ug/L	1000	210	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Chloromethane	ND	ND,P1	ug/L	1000	310	SW846 8260D	1000	12/13/2024 17:00	TMP	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1000	320	SW846 8260D	1000	12/13/2024 17:00	TMP	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1000	310	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Cyclohexane	ND	ND,P1	ug/L	1000	290	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1000	330	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Ethylbenzene	ND	ND,P1	ug/L	1000	340	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Freon 113	ND	ND,P1	ug/L	1000	260	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Isopropylbenzene	ND	ND,P1	ug/L	1000	220	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Methyl acetate	ND	ND,P1	ug/L	2000	320	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Methyl cyclohexane	ND	ND,P1	ug/L	1000	300	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1000	330	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Methylene Chloride	ND	ND,P1	ug/L	1000	450	SW846 8260D	1000	12/13/2024 17:00	TMP	A
mp-Xylene	ND	ND,P1	ug/L	2000	520	SW846 8260D	1000	12/13/2024 17:00	TMP	A
o-Xylene	ND	ND,P1	ug/L	1000	330	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Styrene	ND	ND,P1	ug/L	1000	240	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Tetrachloroethene	ND	ND,P1	ug/L	1000	350	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Toluene	ND	ND,P1	ug/L	1000	230	SW846 8260D	1000	12/13/2024 17:00	TMP	A

Results

Client Sample ID	MW-12	Collected	12/10/2024 09:15
Lab Sample ID	3391582007	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	ND	ND,P1	ug/L	3000	660	SW846 8260D	1000	12/13/2024 17:00	TMP	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1000	260	SW846 8260D	1000	12/13/2024 17:00	TMP	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1000	290	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Trichloroethene	ND	ND,P1	ug/L	1000	330	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Trichlorofluoromethane	ND	ND,P1	ug/L	1000	240	SW846 8260D	1000	12/13/2024 17:00	TMP	A
Vinyl Chloride	ND	ND,P1	ug/L	1000	300	SW846 8260D	1000	12/13/2024 17:00	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/13/2024 17:00	
4-Bromofluorobenzene	460-00-4	97.4%	79 – 114	12/13/2024 17:00	
Dibromofluoromethane	1868-53-7	97.6%	78 – 116	12/13/2024 17:00	
Toluene-d8	2037-26-5	98.4%	76 – 127	12/13/2024 17:00	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	64	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	1050	3,P1	mg/L	50	50	SM2320B-2011	10	12/16/2024 16:20	KMV	I
Chloride	148	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:53	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 00:31	J1W	I
pH	8.07	4,P1	pH_Units			S4500HB-11	10	12/16/2024 16:20	KMV	I
Specific Conductance	3090	P1	umhos/cm	50	1	SW846 9050A	10	12/13/2024 10:41	KMV	I
Sulfate	328	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 19:53	J1W	I
Total Dissolved Solids	1730	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	35	P1	NTU	0.30	0.30	SM2130B-2011	1	12/11/2024 14:54	NPF	I

Results

Client Sample ID	MW-15	Collected	12/10/2024 11:15
Lab Sample ID	3391582008	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Barium, Dissolved	0.083	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Barium, Total	0.087	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Calcium, Dissolved	78.1	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Calcium, Total	79.9	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 12:00	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Iron, Dissolved	6.3	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Iron, Total	6.8	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Magnesium, Dissolved	65.5	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Magnesium, Total	67.8	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Manganese, Dissolved	0.87	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Manganese, Total	0.91	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:09	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:42	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Potassium, Dissolved	38.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Potassium, Total	39.4	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Selenium, Dissolved	0.0077J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Sodium, Dissolved	29.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Sodium, Total	30.0	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:23	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:06	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:23	MSY	E1

Results

Client Sample ID	MW-15	Collected	12/10/2024 11:15
Lab Sample ID	3391582008	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,4-Dimethylphenol	708	P1	ug/L	60.0	10.0	SW846 8270E	20	12/13/2024 22:13	CGS	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 06:20	M1O	D
2-Methylnaphthalene	178	P1	ug/L	30.0	5.0	SW846 8270E	20	12/13/2024 22:13	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 06:20	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 06:20	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 06:20	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 06:20	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 06:20	M1O	D
Acenaphthene	16.3	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Acenaphthylene	274	P1	ug/L	30.0	5.0	SW846 8270E	20	12/13/2024 22:13	CGS	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 06:20	M1O	D
Anthracene	15.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Benzo(a)anthracene	ND	ND,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 06:20	M1O	D
Benzo(a)pyrene	0.32J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 06:20	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 06:20	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 06:20	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 06:20	M1O	D
Biphenyl	30.6	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 06:20	M1O	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 06:20	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 06:20	M1O	D
Carbazole	213	P1	ug/L	60.0	5.0	SW846 8270E	20	12/13/2024 22:13	CGS	D

Results

Client Sample ID	MW-15	Collected	12/10/2024 11:15
Lab Sample ID	3391582008	Lab Receipt	12/11/2024 09:21

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.51J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 06:20	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 06:20	M1O	D
Dibenzofuran	74.6	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 06:20	M1O	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Fluoranthene	12.6	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Fluorene	89.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 06:20	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 06:20	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 06:20	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 06:20	M1O	D
mp-Cresol	2040	P1	ug/L	60.0	10.0	SW846 8270E	20	12/13/2024 22:13	CGS	D
Naphthalene	4430	P1	ug/L	150	65.0	SW846 8270E	100	12/14/2024 03:25	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 06:20	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 06:20	M1O	D
o-Cresol	1140	P1	ug/L	60.0	10.0	SW846 8270E	20	12/13/2024 22:13	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 06:20	M1O	D
Phenanthrene	83.2	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D
Phenol	1760	P1	ug/L	160	10.0	SW846 8270E	20	12/13/2024 22:13	CGS	D
Pyrene	9.0	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 06:20	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	65.3%	23 – 131	12/13/2024 06:20	
2,4,6-Tribromophenol	118-79-6	57.6%	23 – 131	12/13/2024 22:13	
2,4,6-Tribromophenol	118-79-6	67.9%	23 – 131	12/14/2024 03:25	
2-Fluorobiphenyl	321-60-8	66.5%	24 – 116	12/13/2024 06:20	
2-Fluorobiphenyl	321-60-8	69.7%	24 – 116	12/13/2024 22:13	
2-Fluorophenol	367-12-4	44.4%	10 – 85	12/13/2024 06:20	
2-Fluorophenol	367-12-4	43.2%	10 – 85	12/13/2024 22:13	
Nitrobenzene-d5	4165-60-0	79.8%	32 – 125	12/13/2024 06:20	
Nitrobenzene-d5	4165-60-0	75.8%	32 – 125	12/13/2024 22:13	
Phenol-d5	4165-62-2	39.5%	7 – 56	12/13/2024 06:20	
Phenol-d5	4165-62-2	37.1%	7 – 56	12/13/2024 22:13	
Terphenyl-d14	98904-43-9	46%	41 – 145	12/13/2024 06:20	
Terphenyl-d14	98904-43-9	37.6*%	41 – 145	12/13/2024 22:13	20

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 05:54	PDK	A

Results

Client Sample ID	MW-15	Collected	12/10/2024 11:15
Lab Sample ID	3391582008	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	100	46.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	100	41.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2,4-Trimethylbenzene	61.3	P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	350	75.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	50.0	19.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,3,5-Trimethylbenzene	47.0J	J,P1	ug/L	50.0	10.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
2-Butanone	ND	ND,P1	ug/L	500	90.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
2-Hexanone	ND	ND,P1	ug/L	250	65.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	250	75.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Acetone	ND	ND,P1	ug/L	500	155	SW846 8260D	50	12/17/2024 05:54	PDK	A
Benzene	23200	P1	ug/L	500	115	SW846 8260D	500	12/19/2024 14:03	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Bromoform	ND	ND,P1	ug/L	50.0	20.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Bromomethane	ND	ND,P1	ug/L	50.0	19.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	50.0	9.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Chloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Chloroform	ND	ND,P1	ug/L	50.0	10.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Chloromethane	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Cyclohexane	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Ethylbenzene	37.8J	J,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Freon 113	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Methyl acetate	ND	ND,P1	ug/L	100	16.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
mp-Xylene	568	P1	ug/L	100	26.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
o-Xylene	221	P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Styrene	55.4	P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Tetrachloroethene	ND	ND,P1	ug/L	50.0	17.5	SW846 8260D	50	12/17/2024 05:54	PDK	A

Results

Client Sample ID	MW-15	Collected	12/10/2024 11:15
Lab Sample ID	3391582008	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Toluene	2480	P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Total Xylenes	789	P1	ug/L	150	33.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Trichloroethene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:54	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:54	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 05:54	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/17/2024 05:54	
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/19/2024 14:03	
4-Bromofluorobenzene	460-00-4	93.9%	79 – 114	12/17/2024 05:54	
4-Bromofluorobenzene	460-00-4	96.1%	79 – 114	12/19/2024 14:03	
Dibromofluoromethane	1868-53-7	97.1%	78 – 116	12/17/2024 05:54	
Dibromofluoromethane	1868-53-7	94.6%	78 – 116	12/19/2024 14:03	
Toluene-d8	2037-26-5	97.4%	76 – 127	12/17/2024 05:54	
Toluene-d8	2037-26-5	99.3%	76 – 127	12/19/2024 14:03	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	26	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	238	3,P1	mg/L	5	5	SM2320B-2011	1	12/16/2024 10:41	KMV	I
Chloride	22.3	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 20:06	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 00:44	J1W	I
pH	8.09	4,P1	pH_Units			S4500HB-11	1	12/16/2024 10:41	KMV	I
Specific Conductance	1140	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	322	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 20:06	J1W	I
Total Dissolved Solids	778	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	31	P1	NTU	0.30	0.30	SM2130B-2011	1	12/11/2024 14:54	NPF	I

Results

Client Sample ID	MW-15-Dup	Collected	12/10/2024 11:30
Lab Sample ID	3391582009	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Barium, Dissolved	0.083	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Barium, Total	0.086	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Calcium, Dissolved	78.1	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Calcium, Total	79.3	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 12:01	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Iron, Dissolved	6.4	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Iron, Total	6.8	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Magnesium, Dissolved	65.8	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Magnesium, Total	67.4	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Manganese, Dissolved	0.87	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Manganese, Total	0.90	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:08	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:31	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Potassium, Dissolved	38.0	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Potassium, Total	39.4	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Sodium, Dissolved	28.9	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Sodium, Total	29.9	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:25	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:07	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:25	MSY	E1

Results

Client Sample ID	MW-15-Dup	Collected	12/10/2024 11:30
Lab Sample ID	3391582009	Lab Receipt	12/11/2024 09:21

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,4-Dimethylphenol	772	P1	ug/L	30.0	5.0	SW846 8270E	10	12/13/2024 20:33	CGS	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 03:15	M1O	D
2-Methylnaphthalene	185	P1	ug/L	15.0	2.5	SW846 8270E	10	12/13/2024 20:33	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 03:15	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 03:15	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 03:15	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 03:15	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 03:15	M1O	D
Acenaphthene	16.4	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Acenaphthylene	249	P1	ug/L	15.0	2.5	SW846 8270E	10	12/13/2024 20:33	CGS	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 03:15	M1O	D
Anthracene	13.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Benzo(a)anthracene	0.74J	J,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 03:15	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 03:15	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 03:15	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 03:15	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 03:15	M1O	D
Biphenyl	30.1	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 03:15	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 03:15	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 03:15	M1O	D

Results

Client Sample ID	MW-15-Dup	Collected	12/10/2024 11:30
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	218	P1	ug/L	30.0	2.5	SW846 8270E	10	12/13/2024 20:33	CGS	D
Chrysene	0.48J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 03:15	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 03:15	M1O	D
Dibenzofuran	69.6	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 03:15	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Fluoranthene	10.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Fluorene	77.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 03:15	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 03:15	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 03:15	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 03:15	M1O	D
mp-Cresol	2070	P1	ug/L	30.0	5.0	SW846 8270E	10	12/13/2024 20:33	CGS	D
Naphthalene	5080	P1	ug/L	300	130	SW846 8270E	200	12/13/2024 20:58	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 03:15	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 03:15	M1O	D
o-Cresol	1240	P1	ug/L	30.0	5.0	SW846 8270E	10	12/13/2024 20:33	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 03:15	M1O	D
Phenanthrene	79.6	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D
Phenol	1720	P1	ug/L	80.0	5.0	SW846 8270E	10	12/13/2024 20:33	CGS	D
Pyrene	7.6	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 03:15	M1O	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	53%	23 – 131	12/13/2024 03:15	
2,4,6-Tribromophenol	118-79-6	53.8%	23 – 131	12/13/2024 20:33	
2,4,6-Tribromophenol	118-79-6	0*%	23 – 131	12/13/2024 20:58	25
2-Fluorobiphenyl	321-60-8	67.2%	24 – 116	12/13/2024 03:15	
2-Fluorobiphenyl	321-60-8	69.8%	24 – 116	12/13/2024 20:33	
2-Fluorobiphenyl	321-60-8	0*%	24 – 116	12/13/2024 20:58	24
2-Fluorophenol	367-12-4	33.6%	10 – 85	12/13/2024 03:15	
2-Fluorophenol	367-12-4	37%	10 – 85	12/13/2024 20:33	
2-Fluorophenol	367-12-4	0*%	10 – 85	12/13/2024 20:58	21
Nitrobenzene-d5	4165-60-0	80.1%	32 – 125	12/13/2024 03:15	
Nitrobenzene-d5	4165-60-0	80.1%	32 – 125	12/13/2024 20:33	
Nitrobenzene-d5	4165-60-0	0*%	32 – 125	12/13/2024 20:58	23
Phenol-d5	4165-62-2	36.6%	7 – 56	12/13/2024 03:15	
Phenol-d5	4165-62-2	38.3%	7 – 56	12/13/2024 20:33	
Phenol-d5	4165-62-2	0*%	7 – 56	12/13/2024 20:58	22
Terphenyl-d14	98904-43-9	40.7*%	41 – 145	12/13/2024 03:15	6
Terphenyl-d14	98904-43-9	37.3*%	41 – 145	12/13/2024 20:33	26
Terphenyl-d14	98904-43-9	0*%	41 – 145	12/13/2024 20:58	27

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	100	46.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	100	41.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2,4-Trimethylbenzene	59.3	P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	350	75.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	50.0	19.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,3,5-Trimethylbenzene	47.6J	J,P1	ug/L	50.0	10.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
2-Butanone	ND	ND,P1	ug/L	500	90.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
2-Hexanone	ND	ND,P1	ug/L	250	65.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	250	75.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Acetone	ND	ND,P1	ug/L	500	155	SW846 8260D	50	12/17/2024 06:14	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Benzene	23100	P1	ug/L	500	115	SW846 8260D	500	12/19/2024 14:23	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Bromoform	ND	ND,P1	ug/L	50.0	20.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Bromomethane	ND	ND,P1	ug/L	50.0	19.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	50.0	9.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Chloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Chloroform	ND	ND,P1	ug/L	50.0	10.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Chloromethane	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Cyclohexane	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Ethylbenzene	33.9J	J,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Freon 113	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Methyl acetate	ND	ND,P1	ug/L	100	16.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
mp-Xylene	530	P1	ug/L	100	26.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
o-Xylene	212	P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Styrene	53.4	P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Tetrachloroethene	ND	ND,P1	ug/L	50.0	17.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Toluene	2300	P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Total Xylenes	743	P1	ug/L	150	33.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Trichloroethene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:14	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 06:14	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 06:14	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.2%	62 – 133	12/19/2024 14:23	
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/17/2024 06:14	
4-Bromofluorobenzene	460-00-4	91.3%	79 – 114	12/19/2024 14:23	
4-Bromofluorobenzene	460-00-4	94.8%	79 – 114	12/17/2024 06:14	
Dibromofluoromethane	1868-53-7	92.1%	78 – 116	12/19/2024 14:23	
Dibromofluoromethane	1868-53-7	97.6%	78 – 116	12/17/2024 06:14	
Toluene-d8	2037-26-5	96.3%	76 – 127	12/19/2024 14:23	
Toluene-d8	2037-26-5	99%	76 – 127	12/17/2024 06:14	

Results

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WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	18	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	242	3,P1	mg/L	5	5	SM2320B-2011	1	12/16/2024 10:53	KMV	I
Chloride	22.3	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 21:10	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 01:49	J1W	I
pH	8.14	4,P1	pH_Units			S4500HB-11	1	12/16/2024 10:53	KMV	I
Specific Conductance	1140	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	318	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 21:10	J1W	I
Total Dissolved Solids	760	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	31	P1	NTU	0.30	0.30	SM2130B-2011	1	12/11/2024 14:54	NPF	I

Results

Client Sample ID	MW-16	Collected	12/10/2024 14:30
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:53	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Barium, Dissolved	0.090	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Barium, Total	0.093	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Calcium, Dissolved	280	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Calcium, Total	283	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Chromium, Total	0.0022J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 12:02	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Iron, Dissolved	16.7	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Iron, Total	17.1	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Magnesium, Dissolved	51.4	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Magnesium, Total	52.9	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Manganese, Dissolved	1.7	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Manganese, Total	1.7	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:18	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:38	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Potassium, Dissolved	13.8	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Potassium, Total	14.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Selenium, Dissolved	0.011J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Sodium, Dissolved	13.0	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Sodium, Total	13.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:26	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:08	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:26	MSY	E1

Results

Client Sample ID	MW-16	Collected	12/10/2024 14:30
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,4-Dimethylphenol	118	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 04:29	M1O	D
2-Methylnaphthalene	90.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 04:29	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 04:29	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:29	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 04:29	M1O	D
Acenaphthene	200	P1	ug/L	30.0	5.0	SW846 8270E	20	12/13/2024 21:22	CGS	D
Acenaphthylene	7.4	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 04:29	M1O	D
Anthracene	8.3	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Benzo(a)anthracene	0.75J	J,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 04:29	M1O	D
Benzo(a)pyrene	0.27J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 04:29	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 04:29	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 04:29	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 04:29	M1O	D
Biphenyl	23.2	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:29	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 04:29	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 04:29	M1O	D

Results

Client Sample ID	MW-16	Collected	12/10/2024 14:30
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	136	P1	ug/L	60.0	5.0	SW846 8270E	20	12/13/2024 21:22	CGS	D
Chrysene	0.35J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 04:29	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 04:29	M1O	D
Dibenzofuran	84.1	P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 04:29	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Fluoranthene	9.1	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Fluorene	92.2	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 04:29	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 04:29	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 04:29	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 04:29	M1O	D
mp-Cresol	120	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
Naphthalene	3620	E,P1	ug/L	30.0	13.0	SW846 8270E	20	12/13/2024 21:22	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 04:29	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 04:29	M1O	D
o-Cresol	146	P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 04:29	M1O	D
Phenanthrene	65.6	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D
Phenol	201	P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 04:29	M1O	D
Pyrene	5.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:29	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	59.1%	23 – 131	12/13/2024 21:22	
2,4,6-Tribromophenol	118-79-6	68.8%	23 – 131	12/13/2024 04:29	
2-Fluorobiphenyl	321-60-8	73.2%	24 – 116	12/13/2024 21:22	
2-Fluorobiphenyl	321-60-8	66.6%	24 – 116	12/13/2024 04:29	
2-Fluorophenol	367-12-4	42.4%	10 – 85	12/13/2024 21:22	
2-Fluorophenol	367-12-4	39.4%	10 – 85	12/13/2024 04:29	
Nitrobenzene-d5	4165-60-0	76.8%	32 – 125	12/13/2024 04:29	
Nitrobenzene-d5	4165-60-0	72.6%	32 – 125	12/13/2024 21:22	
Phenol-d5	4165-62-2	36.7%	7 – 56	12/13/2024 21:22	
Phenol-d5	4165-62-2	35.4%	7 – 56	12/13/2024 04:29	
Terphenyl-d14	98904-43-9	35.4*%	41 – 145	12/13/2024 21:22	29
Terphenyl-d14	98904-43-9	40.5*%	41 – 145	12/13/2024 04:29	28

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	MW-16	Collected	12/10/2024 14:30
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	100	46.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	100	41.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2,4-Trimethylbenzene	43.4J	J,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	350	75.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	50.0	19.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,3,5-Trimethylbenzene	26.8J	J,P1	ug/L	50.0	10.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
2-Butanone	ND	ND,P1	ug/L	500	90.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
2-Hexanone	ND	ND,P1	ug/L	250	65.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	250	75.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Acetone	ND	ND,P1	ug/L	500	155	SW846 8260D	50	12/17/2024 06:35	PDK	A
Benzene	13100	P1	ug/L	500	115	SW846 8260D	500	12/19/2024 14:44	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Bromoform	ND	ND,P1	ug/L	50.0	20.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Bromomethane	ND	ND,P1	ug/L	50.0	19.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	50.0	9.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Chloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Chloroform	ND	ND,P1	ug/L	50.0	10.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Chloromethane	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Cyclohexane	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Ethylbenzene	34.5J	J,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Freon 113	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Methyl acetate	ND	ND,P1	ug/L	100	16.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
mp-Xylene	344	P1	ug/L	100	26.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
o-Xylene	141	P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Styrene	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 06:35	PDK	A

Results

Client Sample ID	MW-16	Collected	12/10/2024 14:30
Lab Sample ID	3391582010	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND,P1	ug/L	50.0	17.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Toluene	217	P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Total Xylenes	485	P1	ug/L	150	33.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Trichloroethene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 06:35	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 06:35	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 06:35	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/19/2024 14:44	
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/17/2024 06:35	
4-Bromofluorobenzene	460-00-4	96.8%	79 – 114	12/19/2024 14:44	
4-Bromofluorobenzene	460-00-4	97.3%	79 – 114	12/17/2024 06:35	
Dibromofluoromethane	1868-53-7	94.6%	78 – 116	12/19/2024 14:44	
Dibromofluoromethane	1868-53-7	96.3%	78 – 116	12/17/2024 06:35	
Toluene-d8	2037-26-5	98%	76 – 127	12/19/2024 14:44	
Toluene-d8	2037-26-5	97.9%	76 – 127	12/17/2024 06:35	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	41	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	688	3,P1	mg/L	50	50	SM2320B-2011	10	12/16/2024 11:04	KMV	I
Chloride	7.1	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 21:23	J1W	I
Nitrate-N	0.97J	J,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 02:02	J1W	I
pH	8.06	4,P1	pH_Units			S4500HB-11	10	12/16/2024 11:04	KMV	I
Specific Conductance	1540	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	295	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 21:23	J1W	I
Total Dissolved Solids	1060	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	180	P1	NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 08:26	NPF	I

Results

Client Sample ID	MW-2	Collected	12/10/2024 15:45
Lab Sample ID	3391582011	Lab Receipt	12/11/2024 09:21

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 10:54	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Barium, Dissolved	0.11	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Barium, Total	0.12	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Calcium, Dissolved	181	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Calcium, Total	185	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/15/2025 12:34	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Copper, Total	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Iron, Dissolved	0.79	P1	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Iron, Total	0.84	P1	mg/L	0.067	0.022	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Magnesium, Dissolved	99.9	P1	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Magnesium, Total	103	P1	mg/L	0.11	0.036	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Manganese, Dissolved	1.5	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Manganese, Total	1.6	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:03	AJN	G2
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:27	AJN	E2
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Potassium, Dissolved	19.7	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Potassium, Total	20.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Sodium, Dissolved	15.9	P1	mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Sodium, Total	16.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:09	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/20/2024 10:27	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 10:54	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/15/2025 12:34	MSY	E1

Results

Client Sample ID	MW-2	Collected	12/10/2024 15:45
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,4-Dimethylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/13/2024 04:53	M1O	D
2-Methylnaphthalene	1.2J	J,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/13/2024 04:53	M1O	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
3,3-Dichlorobenzidine	ND	ND,1,P1	ug/L	16.0	8.5	SW846 8270E	1	12/13/2024 04:53	M1O	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:53	M1O	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/13/2024 04:53	M1O	D
Acenaphthene	214	P1	ug/L	6.0	1.0	SW846 8270E	4	12/13/2024 21:47	CGS	D
Acenaphthylene	ND	ND,P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/13/2024 04:53	M1O	D
Anthracene	14.3	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Benzo(a)anthracene	0.54J	J,P1	ug/L	1.5	0.28	SW846 8270E	1	12/13/2024 04:53	M1O	D
Benzo(a)pyrene	ND	ND,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 04:53	M1O	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/13/2024 04:53	M1O	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/13/2024 04:53	M1O	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/13/2024 04:53	M1O	D
Biphenyl	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND,14,P1	ug/L	3.0	0.47	SW846 8270E	1	12/13/2024 04:53	M1O	D
Butylbenzylphthalate	ND	ND,12,P1	ug/L	3.0	0.31	SW846 8270E	1	12/13/2024 04:53	M1O	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/13/2024 04:53	M1O	D

Results

Client Sample ID	MW-2	Collected	12/10/2024 15:45
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Carbazole	183	P1	ug/L	12.0	1.0	SW846 8270E	4	12/13/2024 21:47	CGS	D
Chrysene	0.29J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/13/2024 04:53	M1O	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/13/2024 04:53	M1O	D
Dibenzofuran	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 04:53	M1O	D
Di-n-Octylphthalate	ND	ND,13,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Fluoranthene	13.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Fluorene	144	P1	ug/L	6.0	1.0	SW846 8270E	4	12/13/2024 21:47	CGS	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/13/2024 04:53	M1O	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/13/2024 04:53	M1O	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/13/2024 04:53	M1O	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/13/2024 04:53	M1O	D
mp-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
Naphthalene	113	P1	ug/L	1.5	0.65	SW846 8270E	1	12/13/2024 04:53	M1O	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/13/2024 04:53	M1O	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/13/2024 04:53	M1O	D
o-Cresol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/13/2024 04:53	M1O	D
Phenanthrene	114	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D
Phenol	9.1	P1	ug/L	8.0	0.50	SW846 8270E	1	12/13/2024 04:53	M1O	D
Pyrene	9.4	P1	ug/L	1.5	0.25	SW846 8270E	1	12/13/2024 04:53	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	61.3%	23 – 131	12/13/2024 21:47	
2,4,6-Tribromophenol	118-79-6	66.1%	23 – 131	12/13/2024 04:53	
2-Fluorobiphenyl	321-60-8	67.5%	24 – 116	12/13/2024 21:47	
2-Fluorobiphenyl	321-60-8	66.2%	24 – 116	12/13/2024 04:53	
2-Fluorophenol	367-12-4	36.3%	10 – 85	12/13/2024 21:47	
2-Fluorophenol	367-12-4	35.8%	10 – 85	12/13/2024 04:53	
Nitrobenzene-d5	4165-60-0	68.1%	32 – 125	12/13/2024 21:47	
Nitrobenzene-d5	4165-60-0	70.4%	32 – 125	12/13/2024 04:53	
Phenol-d5	4165-62-2	31.1%	7 – 56	12/13/2024 21:47	
Phenol-d5	4165-62-2	32.5%	7 – 56	12/13/2024 04:53	
Terphenyl-d14	98904-43-9	31.2*%	41 – 145	12/13/2024 21:47	31
Terphenyl-d14	98904-43-9	36.7*%	41 – 145	12/13/2024 04:53	30

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	MW-2	Collected	12/10/2024 15:45
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	100	46.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	100	41.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2,4-Trimethylbenzene	13.2J	J,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	350	75.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	50.0	19.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	50.0	10.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
2-Butanone	ND	ND,P1	ug/L	500	90.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
2-Hexanone	ND	ND,P1	ug/L	250	65.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	250	75.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Acetone	ND	ND,P1	ug/L	500	155	SW846 8260D	50	12/17/2024 05:13	PDK	A
Benzene	4050	P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Bromochloromethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Bromoform	ND	ND,P1	ug/L	50.0	20.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Bromomethane	ND	ND,P1	ug/L	50.0	19.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	50.0	9.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Chloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Chloroform	ND	ND,P1	ug/L	50.0	10.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Chloromethane	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Cyclohexane	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Ethylbenzene	27.6J	J,P1	ug/L	50.0	17.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Freon 113	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Methyl acetate	ND	ND,P1	ug/L	100	16.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
mp-Xylene	ND	ND,P1	ug/L	100	26.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
o-Xylene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Styrene	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:13	PDK	A

Results

Client Sample ID	MW-2	Collected	12/10/2024 15:45
Lab Sample ID	3391582011	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND,P1	ug/L	50.0	17.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Toluene	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Total Xylenes	ND	ND,P1	ug/L	150	33.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Trichloroethene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/17/2024 05:13	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/17/2024 05:13	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/17/2024 05:13	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/17/2024 05:13	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	12/17/2024 05:13	
Dibromofluoromethane	1868-53-7	96.6%	78 – 116	12/17/2024 05:13	
Toluene-d8	2037-26-5	98.7%	76 – 127	12/17/2024 05:13	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	63	2,P1	mg/L	5	5	SM2310B-2011	1	12/18/2024 14:27	RAG	I
Alkalinity, Total	872	3,P1	mg/L	50	50	SM2320B-2011	10	12/18/2024 15:17	KMV	I
Chloride	11.0	P1	mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 23:07	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 03:46	J1W	I
pH	8.26	4,P1	pH_Units			S4500HB-11	1	12/16/2024 12:12	KMV	I
Specific Conductance	1490	P1	umhos/cm	5	0.1	SW846 9050A	1	12/13/2024 10:41	KMV	I
Sulfate	17.0	P1	mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 23:07	J1W	I
Total Dissolved Solids	836	P1	mg/L	25	25	SM2540C-15	1	12/12/2024 17:00	RAG	I
Turbidity	11	P1	NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 08:26	NPF	I

Results

Client Sample ID	TB-41	Collected	12/10/2024 15:45
Lab Sample ID	3391582012	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.93	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2.0	0.60	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.82	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	1.5	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.38	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.20	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/17/2024 00:48	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 00:48	PDK	A
2-Butanone	ND	ND,P1	ug/L	10.0	1.8	SW846 8260D	1	12/17/2024 00:48	PDK	A
2-Hexanone	ND	ND,P1	ug/L	5.0	1.3	SW846 8260D	1	12/17/2024 00:48	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	1.5	SW846 8260D	1	12/17/2024 00:48	PDK	A
Acetone	ND	ND,P1	ug/L	10.0	3.1	SW846 8260D	1	12/17/2024 00:48	PDK	A
Benzene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 00:48	PDK	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 00:48	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/17/2024 00:48	PDK	A
Bromoform	ND	ND,P1	ug/L	1.0	0.40	SW846 8260D	1	12/17/2024 00:48	PDK	A
Bromomethane	ND	ND,P1	ug/L	1.0	0.39	SW846 8260D	1	12/17/2024 00:48	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 00:48	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 00:48	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	1.0	0.19	SW846 8260D	1	12/17/2024 00:48	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 00:48	PDK	A
Chloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 00:48	PDK	A
Chloroform	ND	ND,P1	ug/L	1.0	0.21	SW846 8260D	1	12/17/2024 00:48	PDK	A
Chloromethane	0.38J	J,P1	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 00:48	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/17/2024 00:48	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/17/2024 00:48	PDK	A
Cyclohexane	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 00:48	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 00:48	PDK	A
Ethylbenzene	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/17/2024 00:48	PDK	A
Freon 113	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 00:48	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/17/2024 00:48	PDK	A
Methyl acetate	ND	ND,P1	ug/L	2.0	0.32	SW846 8260D	1	12/17/2024 00:48	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 00:48	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 00:48	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/17/2024 00:48	PDK	A
mp-Xylene	ND	ND,P1	ug/L	2.0	0.52	SW846 8260D	1	12/17/2024 00:48	PDK	A
o-Xylene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 00:48	PDK	A
Styrene	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 00:48	PDK	A

Results

Client Sample ID	TB-41	Collected	12/10/2024 15:45
Lab Sample ID	3391582012	Lab Receipt	12/11/2024 09:21

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND,P1	ug/L	1.0	0.35	SW846 8260D	1	12/17/2024 00:48	PDK	A
Toluene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/17/2024 00:48	PDK	A
Total Xylenes	ND	ND,P1	ug/L	3.0	0.66	SW846 8260D	1	12/17/2024 00:48	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/17/2024 00:48	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/17/2024 00:48	PDK	A
Trichloroethene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/17/2024 00:48	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/17/2024 00:48	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/17/2024 00:48	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/17/2024 00:48	
4-Bromofluorobenzene	460-00-4	97.3%	79 – 114	12/17/2024 00:48	
Dibromofluoromethane	1868-53-7	96.3%	78 – 116	12/17/2024 00:48	
Toluene-d8	2037-26-5	98.4%	76 – 127	12/17/2024 00:48	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391582001	MW-14	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582002	MW-28	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582003	MW-37	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391582004	MW-45	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582005	MW-17	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582006	MW-13	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582007	MW-12	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391582008	MW-15	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582009	MW-15-Dup	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582010	MW-16	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582011	MW-2	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391582012	TB-41	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1354456	Prep Method	SW846 3015A
Date	12/12/2024 05:30	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391582003	3391582005	3391582001	3391582004
3391582002	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Method Blank 3916851 (MB) Created on 12/12/2024 00:42 For QC Batch 1354456

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3916852 (LCS) Created on 12/12/2024 00:42 For QC Batch 1354456

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	105	80 - 120		
Antimony, Total	7440-36-0	LCS	0.24		0.22	108	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	104	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	108	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	108	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	107	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	102	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	107	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	108	80 - 120		
Copper, Total	7440-50-8	LCS	1.2		1.10	104	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Iron, Total	7439-89-6	LCS	1.2		1.10	107	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	106	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	108	80 - 120		
Manganese, Total	7439-96-5	LCS	0.13		0.11	116	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	108	80 - 120		
Potassium, Total	7440-09-7	LCS	23.1		22.20	104	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	107	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	109	80 - 120		
Sodium, Total	7440-23-5	LCS	23.7		22.20	107	80 - 120		
Thallium, Total	7440-28-0	LCS	0.11		0.11	101	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.06		0.0560	107	80 - 120		
Zinc, Total	7440-66-6	LCS	0.59		0.56	107	80 - 120		

Matrix Spike 3916853 (MS) 3391582001 For QC Batch 1354456

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916854 (MSD) 3391582001 For QC Batch 1354456

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	MS	1.3	0.0530	1.10	111	75 - 125		
Aluminum, Total	7429-90-5	MSD	1.3	0.0530	1.10	111	75 - 125	RPD 0.21 (Max-20)	
Antimony, Total	7440-36-0	MS	0.26	0.0069	0.22	114	75 - 125		
Antimony, Total	7440-36-0	MSD	0.26	0.0069	0.22	114	75 - 125	RPD 0.21 (Max-20)	
Arsenic, Total	7440-38-2	MS	0.14	0.0170	0.11	108	75 - 125		
Arsenic, Total	7440-38-2	MSD	0.14	0.0170	0.11	108	75 - 125	RPD 0 (Max-20)	
Barium, Total	7440-39-3	MS	1.3	0.14	1.10	107	75 - 125		
Barium, Total	7440-39-3	MSD	1.3	0.14	1.10	107	75 - 125	RPD 0.21 (Max-20)	
Beryllium, Total	7440-41-7	MS	0.25	0	0.22	112	75 - 125		
Beryllium, Total	7440-41-7	MSD	0.25	0	0.22	111	75 - 125	RPD 0.45 (Max-20)	
Cadmium, Total	7440-43-9	MS	0.12	0.000330	0.11	106	75 - 125		
Cadmium, Total	7440-43-9	MSD	0.12	0.000330	0.11	106	75 - 125	RPD 0.09 (Max-20)	
Calcium, Total	7440-70-2	MS	234	235	1.10	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	234	235	1.10	NC	75 - 125	RPD 0.10 (Max-20)	
Chromium, Total	7440-47-3	MS	0.12	0.0026	0.11	108	75 - 125		
Chromium, Total	7440-47-3	MSD	0.12	0.0026	0.11	108	75 - 125	RPD 0.54 (Max-20)	
Cobalt, Total	7440-48-4	MS	1.2	0.000110	1.10	104	75 - 125		
Cobalt, Total	7440-48-4	MSD	1.1	0.000110	1.10	103	75 - 125	RPD 0.31 (Max-20)	
Copper, Total	7440-50-8	MS	1.2	0.0034	1.10	107	75 - 125		
Copper, Total	7440-50-8	MSD	1.2	0.0034	1.10	107	75 - 125	RPD 0.19 (Max-20)	
Iron, Total	7439-89-6	MS	11.8	10.60	1.10	NC	75 - 125		
Iron, Total	7439-89-6	MSD	11.7	10.60	1.10	NC	75 - 125	RPD 0.39 (Max-20)	
Lead, Total	7439-92-1	MS	0.12	0	0.11	105	75 - 125		
Lead, Total	7439-92-1	MSD	0.11	0	0.11	103	75 - 125	RPD 2.11 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Magnesium, Total	7439-95-4	MS	46.9	46.50	1.10	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	47.1	46.50	1.10	NC	75 - 125	RPD 0.26 (Max-20)	
Manganese, Total	7439-96-5	MS	1.1	0.94	0.11	NC	75 - 125		
Manganese, Total	7439-96-5	MSD	1.1	0.94	0.11	NC	75 - 125	RPD 0.02 (Max-20)	
Nickel, Total	7440-02-0	MS	1.2	0.0027	1.10	106	75 - 125		
Nickel, Total	7440-02-0	MSD	1.2	0.0027	1.10	105	75 - 125	RPD 0.26 (Max-20)	
Potassium, Total	7440-09-7	MS	32.4	8.20	22.20	109	75 - 125		
Potassium, Total	7440-09-7	MSD	32.3	8.20	22.20	109	75 - 125	RPD 0.19 (Max-20)	
Selenium, Total	7782-49-2	MS	1.3	0.0023	1.10	117	75 - 125		
Selenium, Total	7782-49-2	MSD	1.3	0.0023	1.10	115	75 - 125	RPD 1.76 (Max-20)	
Silver, Total	7440-22-4	MS	0.13	0	0.11	114	75 - 125		
Silver, Total	7440-22-4	MSD	0.13	0	0.11	113	75 - 125	RPD 0.62 (Max-20)	
Sodium, Total	7440-23-5	MS	94.7	71.10	22.20	106	75 - 125		
Sodium, Total	7440-23-5	MSD	94.4	71.10	22.20	105	75 - 125	RPD 0.34 (Max-20)	
Thallium, Total	7440-28-0	MS	0.11	0.000440	0.11	96.6	75 - 125		
Thallium, Total	7440-28-0	MSD	0.11	0.000440	0.11	96.7	75 - 125	RPD 0.10 (Max-20)	
Vanadium, Total	7440-62-2	MS	0.061	0	0.0560	109	75 - 125		
Vanadium, Total	7440-62-2	MSD	0.061	0	0.0560	110	75 - 125	RPD 0.55 (Max-20)	
Zinc, Total	7440-66-6	MS	0.57	0	0.56	102	75 - 125		
Zinc, Total	7440-66-6	MSD	0.57	0	0.56	102	75 - 125	RPD 0.12 (Max-20)	

QC Batch

QC Batch	1355095	Prep Method	SW846 3015A
Date	12/13/2024 09:38	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391582003	3391582005	3391582001	3391582004
3391582002	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Method Blank 3917542 (MB) Created on 12/13/2024 06:15 For QC Batch 1355095

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3917543 (LCS) Created on 12/13/2024 06:15 For QC Batch 1355095

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.1		1.10	103	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.19		0.22	85	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.11		0.11	99.7	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	106	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.24		0.22	106	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	105	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.1		1.10	95.7	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	106	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	106	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	102	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	105	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	105	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	107	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	113	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	105	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	22.6		22.20	102	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	109	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.4		22.20	105	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	97.1	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.053		0.0560	96	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.57		0.56	103	80 - 120		

Matrix Spike 3917544 (MS) 3391582002 For QC Batch 1355095

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917545 (MSD) 3391582002 For QC Batch 1355095

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.2	0	1.10	105	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.2	0	1.10	106	75 - 125	RPD 0.63 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.14	0	0.22	62.6*	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.15	0	0.22	65.3*	75 - 125	RPD 4.30 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.17	0.0540	0.11	106	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.17	0.0540	0.11	104	75 - 125	RPD 1.89 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0870	1.10	103	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.2	0.0870	1.10	104	75 - 125	RPD 0.44 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.24	0.000330	0.22	106	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.24	0.000330	0.22	106	75 - 125	RPD 0.57 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000330	0.11	101	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000330	0.11	101	75 - 125	RPD 0.59 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	164	163	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	164	163	1.10	NC	75 - 125	RPD 0.41 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.12	0.0016	0.11	104	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0016	0.11	104	75 - 125	RPD 0.66 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	101	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	102	75 - 125	RPD 0.75 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.1	0	1.10	103	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0	1.10	104	75 - 125	RPD 0.65 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	10.7	9.50	1.10	NC	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	10.7	9.50	1.10	NC	75 - 125	RPD 0.09 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.11	0	0.11	99.8	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.11	0	0.11	101	75 - 125	RPD 1.59 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	72.2	70.80	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	71.9	70.80	1.10	NC	75 - 125	RPD 0.39 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	1	0.91	0.11	NC	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	1	0.91	0.11	NC	75 - 125	RPD 0.20 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0	1.10	99.5	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0	1.10	100	75 - 125	RPD 0.68 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	38.1	14.70	22.20	105	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	38.4	14.70	22.20	107	75 - 125	RPD 0.67 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.2	0.0110	1.10	106	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.2	0.0110	1.10	107	75 - 125	RPD 1.57 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.13	0	0.11	113	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.13	0	0.11	114	75 - 125	RPD 1.06 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	90.2	67.20	22.20	104	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	90.4	67.20	22.20	104	75 - 125	RPD 0.16 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.11	0	0.11	97.8	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.11	0	0.11	98	75 - 125	RPD 0.20 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.053	0	0.0560	95.8	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.054	0	0.0560	97.2	75 - 125	RPD 1.45 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.53	0	0.56	94.7	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.53	0	0.56	95.1	75 - 125	RPD 0.44 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

QC Batch

QC Batch	1356093	Prep Method	SW846 7470A
Date	12/16/2024 07:57	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391582003	3391582005	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Matrix Spike 3918429 (MS) 3391609001 (non-Project Sample) For QC Batch 1356093

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918430 (MSD) 3391609001 (non-Project Sample) For QC Batch 1356093

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0058	0.000091	0.0050	114	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0055	0.000091	0.0050	108	70 - 130	RPD 5.66 (Max-20)	

Method Blank 3918427 (MB) Created on 12/16/2024 06:08 For QC Batch 1356093

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3918428 (LCS) Created on 12/16/2024 06:08 For QC Batch 1356093

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0022		0.0020	109	85 - 115		

Matrix Spike 3918431 (MS) 3391582007 For QC Batch 1356093

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918432 (MSD) 3391582007 For QC Batch 1356093

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0058	0.000080	0.0050	114	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0056	0.000080	0.0050	110	70 - 130	RPD 3 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

QC Batch

QC Batch	1356194	Prep Method	SW846 7470A
Date	12/16/2024 07:57	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391582003	3391582005	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Matrix Spike 3918527 (MS) 3391836011 (non-Project Sample) For QC Batch 1356194

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918528 (MSD) 3391836011 (non-Project Sample) For QC Batch 1356194

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0053	0.000065	0.0050	106	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0054	0.000065	0.0050	106	70 - 130	RPD 0.19 (Max-20)	

Method Blank 3918523 (MB) Created on 12/16/2024 07:22 For QC Batch 1356194

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3918524 (LCS) Created on 12/16/2024 07:22 For QC Batch 1356194

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0022		0.0020	111	85 - 115		

Matrix Spike 3918525 (MS) 3391582003 For QC Batch 1356194

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918526 (MSD) 3391582003 For QC Batch 1356194

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0056	0.000059	0.0050	110	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0055	0.000059	0.0050	108	70 - 130	RPD 1.99 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1354605	Prep Method	SW846 3510C
Date	12/12/2024 08:40	Analysis Method	SW846 8270E
Tech.	DEC		

Associated Samples

3391582006	3391582004	3391582001	3391582005
3391582002	3391582003	3391582009	3391582010
3391582007	3391582008	3391582011	

Method Blank 3916928 (MB) Created on 12/12/2024 07:03 For QC Batch 1354605

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	63.2	100	63.2	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	31.6	50	63.2	24 - 116	
2-Fluorophenol	367-12-4	BLK	49.4	100	49.4	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	37.3	50	74.6	32 - 125	
Phenol-d5	4165-62-2	BLK	40.1	100	40.1	7 - 56	
Terphenyl-d14	98904-43-9	BLK	34.7	50	69.4	41 - 145	

Lab Control Standard 3916929 (LCS) Created on 12/12/2024 07:03 For QC Batch 1354605

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	20.1		50	40.2	18 - 124		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS	23.5		50	47	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	56.3		100	56.3	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	61.2		100	61.2	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	58.6		100	58.6	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	59.6		100	59.6	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	76.5		100	76.5	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	47		100	47	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	38.2		50	76.3	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	38		50	76	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	26.2		50	52.5	27 - 125		
2-Chlorophenol	95-57-8	LCS	57.8		100	57.8	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	47.5		100	47.5	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	23.9		50	47.9	22 - 124		
2-Nitroaniline	88-74-4	LCS	40.6		50	81.2	55 - 138		
2-Nitrophenol	88-75-5	LCS	56.3		100	56.3	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	37.3		100	37.3*	38 - 115		
3-Nitroaniline	99-09-2	LCS	33.8		50	67.6	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	34.6		50	69.2	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	69.1		100	69.1	46 - 144		
4-Chloroaniline	106-47-8	LCS	24.4		50	48.8	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	29.5		50	58.9	38 - 128		
4-Nitroaniline	100-01-6	LCS	27.9		50	55.9	53 - 124		
4-Nitrophenol	100-02-7	LCS	26.3		100	26.3	5 - 108		
Acenaphthene	83-32-9	LCS	29.8		50	59.6	36 - 130		
Acenaphthylene	208-96-8	LCS	26		50	51.9	39 - 130		
Acetophenone	98-86-2	LCS	35.1		50	70.2	49 - 117		
Anthracene	120-12-7	LCS	39.1		50	78.1	48 - 133		
Atrazine	1912-24-9	LCS	44.5		50	88.9	44 - 149		
Benzaldehyde	100-52-7	LCS	41.9		50	83.7	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	39.8		50	79.6	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	39.2		50	78.5	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	39.3		50	78.7	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	38.1		50	76.2	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	40.5		50	81	52 - 130		
Biphenyl	92-52-4	LCS	25.1		50	50.2	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	41.1		50	82.3	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	37.6		50	75.2	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	31.9		50	63.9	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	32.5		50	65	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	37.2		50	74.4	50 - 137		
Caprolactam	105-60-2	LCS	16.4		50	32.8	5 - 118		
Carbazole	86-74-8	LCS	39.6		50	79.3	52 - 139		
Chrysene	218-01-9	LCS	41.7		50	83.3	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	36.5		50	73.1	56 - 130		
Dibenzofuran	132-64-9	LCS	30.4		50	60.9	39 - 133		
Diethylphthalate	84-66-2	LCS	32.3		50	64.6	45 - 132		
Dimethylphthalate	131-11-3	LCS	36.2		50	72.4	44 - 131		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Di-n-Butylphthalate	84-74-2	LCS	38.9		50	77.9	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	35.8		50	71.5	35 - 141		
Fluoranthene	206-44-0	LCS	43.9		50	87.8	49 - 132		
Fluorene	86-73-7	LCS	32.2		50	64.3	42 - 131		
Hexachlorobenzene	118-74-1	LCS	36.3		50	72.6	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	19.2		50	38.3	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	9.4		50	18.9	5 - 97		
Hexachloroethane	67-72-1	LCS	17.3		50	34.6	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	36		50	71.9	55 - 126		
Isophorone	78-59-1	LCS	37.8		50	75.6	45 - 129		
mp-Cresol	108394/106445	LCS	67.4		100	67.4	28 - 128		
Naphthalene	91-20-3	LCS	23.9		50	47.9	21 - 123		
Nitrobenzene	98-95-3	LCS	36.7		50	73.5	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	40		50	80	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	50		50	99.9	58 - 125		
o-Cresol	95-48-7	LCS	63.4		100	63.4	34 - 136		
Pentachlorophenol	87-86-5	LCS	57.4		100	57.4	41 - 149		
Phenanthrene	85-01-8	LCS	37		50	73.9	46 - 131		
Phenol	108-95-2	LCS	38.9		100	38.9	5 - 111		
Pyrene	129-00-0	LCS	37.9		50	75.7	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	61.4	100	61.4	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	34.9	50	69.7	24 - 116	
2-Fluorophenol	367-12-4	LCS	43.6	100	43.6	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	36.1	50	72.1	32 - 125	
Phenol-d5	4165-62-2	LCS	37.5	100	37.5	7 - 56	
Terphenyl-d14	98904-43-9	LCS	32.8	50	65.6	41 - 145	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1355209	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391582003 3391582001 3391582005 3391582002 3391582007

Matrix Spike 3917944 (MS) 3391890002 (non-Project Sample) For QC Batch 1355209

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917945 (MSD) 3391890002 (non-Project Sample) For QC Batch 1355209

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	23	0	20	115	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	23.3	0	20	117	66 - 130	RPD 1.54 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	21.2	0	20	106	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	21.9	0	20	109	74 - 135	RPD 2.95 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	20.6	0	20	103	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	21.8	0	20	109	82 - 126	RPD 6.02 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	22.5	0.61	20	109	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	23.1	0.61	20	113	78 - 124	RPD 3.03 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	23.1	0	20	116	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	23.5	0	20	117	63 - 128	RPD 1.46 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	19.5	0	20	97.6	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	20.6	0	20	103	61 - 126	RPD 5.53 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	21.8	0	20	109	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	23.1	0	20	115	75 - 132	RPD 5.54 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	20.9	0	20	105	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	21.6	0	20	108	67 - 123	RPD 3.28 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	23.3	0	20	117	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	24.2	0	20	121	76 - 125	RPD 3.78 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	18.9	0	20	94.5	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	20	0	20	100	59 - 133	RPD 5.58 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	20	0	20	99.8	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	20.8	0	20	104	80 - 124	RPD 4.19 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	21.1	0	20	106	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	21.8	0	20	109	82 - 118	RPD 3.24 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	20.1	0	20	101	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	20.4	0	20	102	70 - 133	RPD 1.42 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	22.1	0	20	110	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	22.3	0	20	112	81 - 127	RPD 1.24 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	23.5	0	20	118	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	24.5	0	20	122	76 - 125	RPD 3.94 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	21.3	0	20	106	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	22.2	0	20	111	81 - 118	RPD 4.14 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	20.9	0	20	104	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	21.8	0	20	109	81 - 116	RPD 4.30 (Max-15)	
2-Butanone	78-93-3	MS	97.2	0	100	97.2	50 - 152		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Butanone	78-93-3	MSD	98.3	0	100	98.3	50 - 152	RPD 1.12 (Max-16)	
2-Hexanone	591-78-6	MS	103	0	100	103	65 - 154		
2-Hexanone	591-78-6	MSD	108	0	100	108	65 - 154	RPD 4.19 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	102	0	100	102	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	107	0	100	107	71 - 146	RPD 4.14 (Max-16)	
Acetone	67-64-1	MS	87	0	100	87	40 - 151		
Acetone	67-64-1	MSD	88.7	0	100	88.7	40 - 151	RPD 1.94 (Max-40)	
Benzene	71-43-2	MS	21.8	0	20	109	80 - 124		
Benzene	71-43-2	MSD	22.2	0	20	111	80 - 124	RPD 1.77 (Max-26)	
Bromochloromethane	74-97-5	MS	21.8	0	20	109	73 - 117		
Bromochloromethane	74-97-5	MSD	22.5	0	20	112	73 - 117	RPD 2.90 (Max-19)	
Bromodichloromethane	75-27-4	MS	22.5	0	20	113	79 - 126		
Bromodichloromethane	75-27-4	MSD	23.3	0	20	116	79 - 126	RPD 3.25 (Max-16)	
Bromoform	75-25-2	MS	20.4	0	20	102	70 - 123		
Bromoform	75-25-2	MSD	20.9	0	20	104	70 - 123	RPD 2.31 (Max-16)	
Bromomethane	74-83-9	MS	15.4	0	20	77.1	45 - 148		
Bromomethane	74-83-9	MSD	16.5	0	20	82.7	45 - 148	RPD 6.96 (Max-26)	
Carbon Disulfide	75-15-0	MS	21.1	0	20	105	57 - 131		
Carbon Disulfide	75-15-0	MSD	21.8	0	20	109	57 - 131	RPD 3.54 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	23.7	0	20	118	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	24.4	0	20	122	62 - 132	RPD 3.04 (Max-17)	
Chlorobenzene	108-90-7	MS	20.5	0	20	103	85 - 117		
Chlorobenzene	108-90-7	MSD	21.7	0	20	108	85 - 117	RPD 5.42 (Max-15)	
Chlorodibromomethane	124-48-1	MS	20.4	0	20	102	77 - 122		
Chlorodibromomethane	124-48-1	MSD	21.6	0	20	108	77 - 122	RPD 5.71 (Max-15)	
Chloroethane	75-00-3	MS	22.3	0	20	111	51 - 142		
Chloroethane	75-00-3	MSD	22.7	0	20	113	51 - 142	RPD 1.96 (Max-24)	
Chloroform	67-66-3	MS	21.2	0	20	106	78 - 122		
Chloroform	67-66-3	MSD	21.9	0	20	109	78 - 122	RPD 3.14 (Max-16)	
Chloromethane	74-87-3	MS	19.7	0	20	98.7	38 - 156		
Chloromethane	74-87-3	MSD	19.8	0	20	99	38 - 156	RPD 0.26 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	22.7	0.38	20	112	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	23.4	0.38	20	115	78 - 125	RPD 3.22 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	20.3	0	20	101	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	20.9	0	20	105	81 - 121	RPD 3.16 (Max-16)	
Cyclohexane	110-82-7	MS	23	0	20	115	66 - 130		
Cyclohexane	110-82-7	MSD	23.5	0	20	118	66 - 130	RPD 2.13 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	23.2	0	20	116	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	23.8	0	20	119	17 - 166	RPD 2.73 (Max-24)	
Ethylbenzene	100-41-4	MS	22.1	0	20	110	80 - 124		
Ethylbenzene	100-41-4	MSD	23.3	0	20	117	80 - 124	RPD 5.41 (Max-19)	
Freon 113	76-13-1	MS	23.3	0	20	116	50 - 130		
Freon 113	76-13-1	MSD	23.9	0	20	120	50 - 130	RPD 2.84 (Max-26)	
Isopropylbenzene	98-82-8	MS	25.7	0	20	129	73 - 129		
Isopropylbenzene	98-82-8	MSD	26.7	0	20	134*	73 - 129	RPD 3.85 (Max-18)	
Methyl acetate	79-20-9	MS	17	0	20	85.1	70 - 130		
Methyl acetate	79-20-9	MSD	16.9	0	20	84.5	70 - 130	RPD 0.71 (Max-18)	
Methyl cyclohexane	108-87-2	MS	21.9	0	20	109	70 - 130		
Methyl cyclohexane	108-87-2	MSD	23	0	20	115	70 - 130	RPD 5.04 (Max-18)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl t-Butyl Ether	1634-04-4	MS	20.6	0	20	103	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	21.3	0	20	106	69 - 115	RPD 3.17 (Max-20)	
Methylene Chloride	75-09-2	MS	21.5	0	20	107	76 - 121		
Methylene Chloride	75-09-2	MSD	21.9	0	20	110	76 - 121	RPD 1.98 (Max-17)	
mp-Xylene	108383/106423	MS	44.2	0	40	111	79 - 125		
mp-Xylene	108383/106423	MSD	46.5	0	40	116	79 - 125	RPD 4.95 (Max-21)	
o-Xylene	95-47-6	MS	22.2	0	20	111	79 - 124		
o-Xylene	95-47-6	MSD	23.5	0	20	118	79 - 124	RPD 5.84 (Max-19)	
Styrene	100-42-5	MS	23.4	0	20	117	79 - 123		
Styrene	100-42-5	MSD	24.3	0	20	122	79 - 123	RPD 3.99 (Max-16)	
Tetrachloroethene	127-18-4	MS	18.7	0	20	93.7	72 - 124		
Tetrachloroethene	127-18-4	MSD	19.6	0	20	98	72 - 124	RPD 4.43 (Max-38)	
Toluene	108-88-3	MS	21.5	0	20	107	80 - 125		
Toluene	108-88-3	MSD	22.2	0	20	111	80 - 125	RPD 3.38 (Max-20)	
Total Xylenes	1330-20-7	MS	66.4	0	60	111	79 - 125		
Total Xylenes	1330-20-7	MSD	70	0	60	117	79 - 125	RPD 5.24 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	22.2	0	20	111	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	23.2	0	20	116	71 - 122	RPD 4.46 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	20.2	0	20	101	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	21.5	0	20	108	78 - 126	RPD 6.06 (Max-18)	
Trichloroethene	79-01-6	MS	21.8	0	20	109	77 - 124		
Trichloroethene	79-01-6	MSD	22	0	20	110	77 - 124	RPD 1.05 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	23.5	0	20	118	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	24	0	20	120	38 - 123	RPD 2.09 (Max-23)	
Vinyl Chloride	75-01-4	MS	22.4	0	20	112	27 - 138		
Vinyl Chloride	75-01-4	MSD	23.2	0	20	116	27 - 138	RPD 3.63 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.5	30	105	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	31	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	29.1	30	97	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	30	30	100	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.7	30	102	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	30.7	30	102	78 - 116	
Toluene-d8	2037-26-5	MS	29.5	30	98.3	76 - 127	
Toluene-d8	2037-26-5	MSD	29.9	30	99.8	76 - 127	

Method Blank 3917834 (MB) Created on 12/13/2024 10:08 For QC Batch 1355209

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.7	30	102	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.7	30	98.9	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.3	30	97.5	78 - 116	
Toluene-d8	2037-26-5	BLK	30.1	30	100	76 - 127	

Lab Control Standard 3917835 (LCS) Created on 12/13/2024 10:08 For QC Batch 1355209

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.4		20	107	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.1		20	105	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.1		20	106	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	21.1		20	105	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	23.1		20	116	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.4		20	112	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22		20	110	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23		20	115	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	23.5		20	117	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.6		20	103	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	20.3		20	102	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.8		20	109	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.4		20	96.8	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21.1		20	105	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	23.2		20	116	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	21.6		20	108	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.6		20	108	81 - 116		
2-Butanone	78-93-3	LCS	104		100	104	50 - 152		
2-Hexanone	591-78-6	LCS	105		100	105	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	104		100	104	71 - 146		
Acetone	67-64-1	LCS	99		100	99	40 - 151		
Benzene	71-43-2	LCS	21		20	105	80 - 124		
Bromochloromethane	74-97-5	LCS	21.5		20	108	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.5		20	108	79 - 126		
Bromoform	75-25-2	LCS	20.8		20	104	70 - 123		
Bromomethane	74-83-9	LCS	18.5		20	92.7	45 - 148		
Carbon Disulfide	75-15-0	LCS	23.2		20	116	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	21.1		20	106	62 - 132		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chlorobenzene	108-90-7	LCS	21.3		20	106	85 - 117		
Chlorodibromomethane	124-48-1	LCS	21.7		20	108	77 - 122		
Chloroethane	75-00-3	LCS	19.8		20	99.2	51 - 142		
Chloroform	67-66-3	LCS	20.8		20	104	78 - 122		
Chloromethane	74-87-3	LCS	21.2		20	106	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	22		20	110	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	21.1		20	106	81 - 121		
Cyclohexane	110-82-7	LCS	22.3		20	111	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	21.4		20	107	17 - 166		
Ethylbenzene	100-41-4	LCS	22.6		20	113	80 - 124		
Freon 113	76-13-1	LCS	23.2		20	116	50 - 130		
Isopropylbenzene	98-82-8	LCS	25.2		20	126	73 - 129		
Methyl acetate	79-20-9	LCS	19.8		20	98.8	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22.1		20	111	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.9		20	104	69 - 115		
Methylene Chloride	75-09-2	LCS	21.8		20	109	76 - 121		
mp-Xylene	108383/106423	LCS	44.4		40	111	79 - 125		
o-Xylene	95-47-6	LCS	22.7		20	113	79 - 124		
Styrene	100-42-5	LCS	23.5		20	117	79 - 123		
Tetrachloroethene	127-18-4	LCS	20		20	99.8	72 - 124		
Toluene	108-88-3	LCS	21.7		20	108	80 - 125		
Total Xylenes	1330-20-7	LCS	67.1		60	112	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.9		20	110	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	21.4		20	107	78 - 126		
Trichloroethene	79-01-6	LCS	20.6		20	103	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	22.1		20	110	38 - 123		
Vinyl Chloride	75-01-4	LCS	22.2		20	111	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	30.3	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	30	30	100	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30.2	30	101	78 - 116	
Toluene-d8	2037-26-5	LCS	30.5	30	102	76 - 127	

QC Batch

QC Batch	1356391	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391582004	3391582008	3391582009	3391582006
3391582010	3391582011	3391582012	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Matrix Spike 3919057 (MS) 3392207005 (non-Project Sample) For QC Batch 1356391

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919058 (MSD) 3392207005 (non-Project Sample) For QC Batch 1356391

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	20.4	0	20	102	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	18.4	0	20	91.9	66 - 130	RPD 10.50 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	20.9	0	20	105	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	18.2	0	20	91	74 - 135	RPD 13.90 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	20.1	0	20	100	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	17.6	0	20	88.1	82 - 126	RPD 13 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	20.5	0	20	103	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	18.3	0	20	91.5	78 - 124	RPD 11.50 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	21.1	0	20	105	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	18.5	0	20	92.6	63 - 128	RPD 12.90 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	19.7	0	20	98.3	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	17.3	0	20	86.6	61 - 126	RPD 12.70 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	22.9	0	20	115	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	21.3	0	20	106	75 - 132	RPD 7.36 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	20.2	0	20	101	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	17.9	0	20	89.4	67 - 123	RPD 12.30 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.3	0	20	107	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	18.8	0	20	94	76 - 125	RPD 12.60 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	19.6	0	20	98.1	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	17.1	0	20	85.6	59 - 133	RPD 13.60 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	20.1	0	20	100	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	18.2	0	20	91	80 - 124	RPD 9.87 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	20.5	0	20	103	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	18.3	0	20	91.4	82 - 118	RPD 11.60 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	20	0	20	100	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	17.9	0	20	89.3	70 - 133	RPD 11.30 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	20.1	0	20	101	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	17.8	0	20	88.9	81 - 127	RPD 12.40 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	21.6	0	20	108	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	18.9	0	20	94.4	76 - 125	RPD 13.50 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	20.6	0	20	103	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	18.3	0	20	91.4	81 - 118	RPD 11.70 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	20.2	0	20	101	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	17.9	0	20	89.7	81 - 116	RPD 11.80 (Max-15)	
2-Butanone	78-93-3	MS	101	0	100	101	50 - 152		
2-Butanone	78-93-3	MSD	95.3	0	100	95.3	50 - 152	RPD 6.28 (Max-16)	
2-Hexanone	591-78-6	MS	110	0	100	110	65 - 154		
2-Hexanone	591-78-6	MSD	98.4	0	100	98.4	65 - 154	RPD 10.70 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	108	0	100	108	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	96.8	0	100	96.8	71 - 146	RPD 11 (Max-16)	
Acetone	67-64-1	MS	104	0	100	104	40 - 151		
Acetone	67-64-1	MSD	91.7	0	100	91.7	40 - 151	RPD 13 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzene	71-43-2	MS	20.7	0	20	103	80 - 124		
Benzene	71-43-2	MSD	18.3	0	20	91.4	80 - 124	RPD 12.20 (Max-26)	
Bromochloromethane	74-97-5	MS	20.4	0	20	102	73 - 117		
Bromochloromethane	74-97-5	MSD	18.3	0	20	91.7	73 - 117	RPD 10.80 (Max-19)	
Bromodichloromethane	75-27-4	MS	20.1	0	20	101	79 - 126		
Bromodichloromethane	75-27-4	MSD	18.4	0	20	92.1	79 - 126	RPD 8.77 (Max-16)	
Bromoform	75-25-2	MS	18.9	0	20	94.3	70 - 123		
Bromoform	75-25-2	MSD	17.2	0	20	85.9	70 - 123	RPD 9.31 (Max-16)	
Bromomethane	74-83-9	MS	13.3	0	20	66.3	45 - 148		
Bromomethane	74-83-9	MSD	12.3	0	20	61.6	45 - 148	RPD 7.44 (Max-26)	
Carbon Disulfide	75-15-0	MS	18.9	0	20	94.5	57 - 131		
Carbon Disulfide	75-15-0	MSD	16.9	0	20	84.7	57 - 131	RPD 11 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	20.6	0	20	103	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	17.5	0	20	87.6	62 - 132	RPD 16.10 (Max-17)	
Chlorobenzene	108-90-7	MS	20.4	0	20	102	85 - 117		
Chlorobenzene	108-90-7	MSD	18	0	20	90.2	85 - 117	RPD 12.40 (Max-15)	
Chlorodibromomethane	124-48-1	MS	19.9	0	20	99.5	77 - 122		
Chlorodibromomethane	124-48-1	MSD	17.6	0	20	88	77 - 122	RPD 12.20 (Max-15)	
Chloroethane	75-00-3	MS	13.8	0	20	69.2	51 - 142		
Chloroethane	75-00-3	MSD	12.3	0	20	61.3	51 - 142	RPD 12 (Max-24)	
Chloroform	67-66-3	MS	19.3	0	20	96.5	78 - 122		
Chloroform	67-66-3	MSD	17.2	0	20	86.1	78 - 122	RPD 11.40 (Max-16)	
Chloromethane	74-87-3	MS	24.4	0	20	122	38 - 156		
Chloromethane	74-87-3	MSD	21.4	0	20	107	38 - 156	RPD 13 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	21	0	20	105	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	18.9	0	20	94.7	78 - 125	RPD 10.30 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.7	0	20	98.7	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	17.2	0	20	85.9	81 - 121	RPD 13.90 (Max-16)	
Cyclohexane	110-82-7	MS	19.3	0	20	96.4	66 - 130		
Cyclohexane	110-82-7	MSD	17.3	0	20	86.5	66 - 130	RPD 10.90 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	18.4	0	20	92.1	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	15.7	0	20	78.6	17 - 166	RPD 15.80 (Max-24)	
Ethylbenzene	100-41-4	MS	20.8	0	20	104	80 - 124		
Ethylbenzene	100-41-4	MSD	18.7	0	20	93.4	80 - 124	RPD 11 (Max-19)	
Freon 113	76-13-1	MS	18.7	0	20	93.4	50 - 130		
Freon 113	76-13-1	MSD	16.6	0	20	83.1	50 - 130	RPD 11.70 (Max-26)	
Isopropylbenzene	98-82-8	MS	22.7	0	20	114	73 - 129		
Isopropylbenzene	98-82-8	MSD	20.1	0	20	100	73 - 129	RPD 12.50 (Max-18)	
Methyl acetate	79-20-9	MS	20	0	20	100	70 - 130		
Methyl acetate	79-20-9	MSD	17.5	0	20	87.4	70 - 130	RPD 13.60 (Max-18)	
Methyl cyclohexane	108-87-2	MS	17.7	0	20	88.6	70 - 130		
Methyl cyclohexane	108-87-2	MSD	16	0	20	79.9	70 - 130	RPD 10.30 (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	20.6	0	20	103	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	18.4	0	20	91.9	69 - 115	RPD 11.30 (Max-20)	
Methylene Chloride	75-09-2	MS	19.3	0	20	96.5	76 - 121		
Methylene Chloride	75-09-2	MSD	18	0	20	90	76 - 121	RPD 6.96 (Max-17)	
mp-Xylene	108383/106423	MS	42.2	0	40	105	79 - 125		
mp-Xylene	108383/106423	MSD	37.2	0	40	92.9	79 - 125	RPD 12.60 (Max-21)	
o-Xylene	95-47-6	MS	21.2	0	20	106	79 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
o-Xylene	95-47-6	MSD	18.4	0	20	92.2	79 - 124	RPD 14.10 (Max-19)	
Styrene	100-42-5	MS	21.1	0	20	106	79 - 123		
Styrene	100-42-5	MSD	18.6	0	20	93	79 - 123	RPD 12.80 (Max-16)	
Tetrachloroethene	127-18-4	MS	18.4	0	20	91.9	72 - 124		
Tetrachloroethene	127-18-4	MSD	16	0	20	80.2	72 - 124	RPD 13.50 (Max-38)	
Toluene	108-88-3	MS	20.5	0	20	103	80 - 125		
Toluene	108-88-3	MSD	18.1	0	20	90.7	80 - 125	RPD 12.40 (Max-20)	
Total Xylenes	1330-20-7	MS	63.4	0	60	106	79 - 125		
Total Xylenes	1330-20-7	MSD	55.6	0	60	92.7	79 - 125	RPD 13.10 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	20.4	0	20	102	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	18	0	20	90	71 - 122	RPD 12.30 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	20.1	0	20	100	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	18.2	0	20	91.2	78 - 126	RPD 9.61 (Max-18)	
Trichloroethene	79-01-6	MS	19.2	0	20	95.9	77 - 124		
Trichloroethene	79-01-6	MSD	17.8	0	20	88.9	77 - 124	RPD 7.51 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	15.5	0	20	77.5	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	13.3	0	20	66.6	38 - 123	RPD 15.10 (Max-23)	
Vinyl Chloride	75-01-4	MS	20	0	20	100	27 - 138		
Vinyl Chloride	75-01-4	MSD	16.6	0	20	83.2	27 - 138	RPD 18.30 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	32	30	107	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	31	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	28.5	30	95	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.7	30	95.6	79 - 114	
Dibromofluoromethane	1868-53-7	MS	29.7	30	99	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	29.3	30	97.7	78 - 116	
Toluene-d8	2037-26-5	MS	29.7	30	99	76 - 127	
Toluene-d8	2037-26-5	MSD	29.1	30	96.9	76 - 127	

Method Blank 3919046 (MB) Created on 12/16/2024 23:48 For QC Batch 1356391

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.8	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.4	30	97.8	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.4	30	98.2	78 - 116	
Toluene-d8	2037-26-5	BLK	29.9	30	99.6	76 - 127	

Lab Control Standard 3919047 (LCS) Created on 12/16/2024 23:48 For QC Batch 1356391

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	19.5		20	97.3	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	18.7		20	93.3	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	17.9		20	89.7	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	18.7		20	93.4	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	20.6		20	103	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.9		20	99.5	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.4		20	107	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	20.8		20	104	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.1		20	100	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	17.7		20	88.7	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	18.6		20	93.2	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	19		20	95	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	18.2		20	90.9	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	18.3		20	91.3	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	20.1		20	100	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	19.1		20	95.3	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	18.8		20	93.8	81 - 116		
2-Butanone	78-93-3	LCS	97.2		100	97.2	50 - 152		
2-Hexanone	591-78-6	LCS	101		100	101	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	99.2		100	99.2	71 - 146		
Acetone	67-64-1	LCS	96.4		100	96.4	40 - 151		
Benzene	71-43-2	LCS	18.5		20	92.6	80 - 124		
Bromochloromethane	74-97-5	LCS	19		20	95.2	73 - 117		
Bromodichloromethane	75-27-4	LCS	18.5		20	92.4	79 - 126		
Bromoform	75-25-2	LCS	17.7		20	88.6	70 - 123		
Bromomethane	74-83-9	LCS	18.6		20	93	45 - 148		
Carbon Disulfide	75-15-0	LCS	19.5		20	97.4	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.9		20	99.7	62 - 132		
Chlorobenzene	108-90-7	LCS	18.3		20	91.5	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18.1		20	90.5	77 - 122		
Chloroethane	75-00-3	LCS	14.5		20	72.7	51 - 142		
Chloroform	67-66-3	LCS	17.6		20	88	78 - 122		
Chloromethane	74-87-3	LCS	22.4		20	112	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	18.8		20	93.9	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.4		20	92.1	81 - 121		
Cyclohexane	110-82-7	LCS	21.5		20	107	66 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCS	24.1		20	120	17 - 166		
Ethylbenzene	100-41-4	LCS	19.4		20	97	80 - 124		
Freon 113	76-13-1	LCS	21.9		20	109	50 - 130		
Isopropylbenzene	98-82-8	LCS	21.6		20	108	73 - 129		
Methyl acetate	79-20-9	LCS	20.4		20	102	70 - 130		
Methyl cyclohexane	108-87-2	LCS	21.3		20	107	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	18.9		20	94.5	69 - 115		
Methylene Chloride	75-09-2	LCS	18.1		20	90.6	76 - 121		
mp-Xylene	108383/106423	LCS	38.8		40	96.9	79 - 125		
o-Xylene	95-47-6	LCS	18.8		20	93.8	79 - 124		
Styrene	100-42-5	LCS	19.3		20	96.7	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.2		20	95.8	72 - 124		
Toluene	108-88-3	LCS	18.8		20	94.1	80 - 125		
Total Xylenes	1330-20-7	LCS	57.5		60	95.9	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	19		20	94.9	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.1		20	95.3	78 - 126		
Trichloroethene	79-01-6	LCS	18.4		20	92.2	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	19		20	95.2	38 - 123		
Vinyl Chloride	75-01-4	LCS	18.7		20	93.7	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.5	30	98.4	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.1	30	97	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.3	30	97.8	78 - 116	
Toluene-d8	2037-26-5	LCS	29.4	30	98	76 - 127	

QC Batch

QC Batch	1357494	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391582004 3391582009 3391582006 3391582008 3391582010

Method Blank 3921136 (MB) Created on 12/19/2024 14:01 For QC Batch 1357494

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.2	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	28.7	30	95.7	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.4	30	94.6	78 - 116	
Toluene-d8	2037-26-5	BLK	29.1	30	97.1	76 - 127	

Lab Control Standard 3921137 (LCS) Created on 12/19/2024 14:01 For QC Batch 1357494

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.3		20	107	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	19.1		20	95.7	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	18.8		20	94.1	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.1		20	101	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.2		20	106	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	21		20	105	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.6		20	108	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	21.2		20	106	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	21.3		20	107	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.3		20	91.3	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	19.5		20	97.5	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.4		20	102	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.3		20	96.4	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	19.7		20	98.4	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.5		20	108	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.7		20	103	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.1		20	100	81 - 116		
2-Butanone	78-93-3	LCS	101		100	101	50 - 152		
2-Hexanone	591-78-6	LCS	106		100	106	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	71 - 146		
Acetone	67-64-1	LCS	104		100	104	40 - 151		
Benzene	71-43-2	LCS	19.7		20	98.5	80 - 124		
Bromochloromethane	74-97-5	LCS	19.5		20	97.5	73 - 117		
Bromodichloromethane	75-27-4	LCS	19.4		20	97	79 - 126		
Bromoform	75-25-2	LCS	18.1		20	90.3	70 - 123		
Bromomethane	74-83-9	LCS	14.5		20	72.4	45 - 148		
Carbon Disulfide	75-15-0	LCS	19.7		20	98.5	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	21.2		20	106	62 - 132		
Chlorobenzene	108-90-7	LCS	19.9		20	99.7	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.2		20	96	77 - 122		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloroethane	75-00-3	LCS	14		20	70.2	51 - 142		
Chloroform	67-66-3	LCS	18.5		20	92.5	78 - 122		
Chloromethane	74-87-3	LCS	19.6		20	98	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.4		20	102	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.3		20	96.6	81 - 121		
Cyclohexane	110-82-7	LCS	23.2		20	116	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	24.6		20	123	17 - 166		
Ethylbenzene	100-41-4	LCS	20.9		20	105	80 - 124		
Freon 113	76-13-1	LCS	22.8		20	114	50 - 130		
Isopropylbenzene	98-82-8	LCS	23.2		20	116	73 - 129		
Methyl acetate	79-20-9	LCS	20.6		20	103	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22.9		20	114	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	19.7		20	98.6	69 - 115		
Methylene Chloride	75-09-2	LCS	18.7		20	93.7	76 - 121		
mp-Xylene	108383/106423	LCS	42.2		40	105	79 - 125		
o-Xylene	95-47-6	LCS	20.4		20	102	79 - 124		
Styrene	100-42-5	LCS	20.8		20	104	79 - 123		
Tetrachloroethene	127-18-4	LCS	20.2		20	101	72 - 124		
Toluene	108-88-3	LCS	20.2		20	101	80 - 125		
Total Xylenes	1330-20-7	LCS	62.5		60	104	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.2		20	101	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	20		20	99.9	78 - 126		
Trichloroethene	79-01-6	LCS	19		20	95.2	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	18.6		20	92.9	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.2		20	106	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.3	30	97.7	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	28.7	30	95.6	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.2	30	97.3	78 - 116	
Toluene-d8	2037-26-5	LCS	29.4	30	97.9	76 - 127	

QC Batch

QC Batch	1359655	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391582006

Method Blank 3922385 (MB) Created on 12/23/2024 11:10 For QC Batch 1359655

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.4	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.1	30	97	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.9	30	93.1	78 - 116	
Toluene-d8	2037-26-5	BLK	29.2	30	97.5	76 - 127	

Lab Control Standard 3922386 (LCS) Created on 12/23/2024 11:10 For QC Batch 1359655

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzene	71-43-2	LCS	20		20	100	80 - 124		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.8	30	99.5	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29	30	96.8	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.4	30	98	78 - 116	
Toluene-d8	2037-26-5	LCS	29.7	30	98.9	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1354094	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3391582005	3391582003	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Matrix Spike 3916514 (MS) 3391367002 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916515 (MSD) 3391367002 (non-Project Sample) For QC Batch 1354094

Matrix Spike 3916518 (MS) 3391395001 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	3	1.90	1	104	80 - 120		

Matrix Spike 3916521 (MS) 3391480001 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916522 (MSD) 3391480001 (non-Project Sample) For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	1.2	0	1	118	80 - 120		
Nitrate-N	NO3	MSD	1.2	0	1	118	80 - 120	RPD 0 (Max-20)	

Matrix Spike 3916525 (MS) 3391543002 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	30	29.20	1	NC	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3916695 (MS) 3391334001 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916696 (MSD) 3391334001 (non-Project Sample) For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	2.9	0	2.50	118	80 - 120		
Nitrate-N	NO3	MSD	2.9	0	2.50	118	80 - 120	RPD 0.20 (Max-20)	

Matrix Spike 3916699 (MS) 3391553001 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike 3916724 (MS) 3391609001 (non-Project Sample) For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	1.3	0	1	126*	80 - 120		

Method Blank 3916163 (MB) Created on 12/11/2024 06:39 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916164 (LCS) Created on 12/11/2024 06:39 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		

Lab Control Standard 3916516 (LCS) Created on 12/11/2024 11:10 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		

Method Blank 3916517 (MB) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916519 (LCS) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		

Method Blank 3916520 (MB) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916523 (LCS) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		

Method Blank 3916524 (MB) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916526 (LCS) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.4		5	107	90 - 110		

Method Blank 3916527 (MB) Created on 12/11/2024 11:11 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916697 (LCS) Created on 12/11/2024 14:09 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.4		5	108	90 - 110		

Method Blank 3916698 (MB) Created on 12/11/2024 14:09 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916700 (LCS) Created on 12/11/2024 14:09 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.4		5	109	90 - 110		

Method Blank 3916701 (MB) Created on 12/11/2024 14:09 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Matrix Spike 3916702 (MS) 3391582011 For QC Batch 1354094

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3916703 (MSD) 3391582011 For QC Batch 1354094

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	3	0	2.50	120	80 - 120		
Nitrate-N	NO3	MSD	3	0	2.50	120	80 - 120	RPD 0.17 (Max-20)	

Lab Control Standard 3916704 (LCS) Created on 12/11/2024 14:09 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.5		5	109	90 - 110		

Method Blank 3916705 (MB) Created on 12/11/2024 14:09 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

Lab Control Standard 3916725 (LCS) Created on 12/11/2024 14:37 For QC Batch 1354094

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.6		5	111*	90 - 110		

Method Blank 3916726 (MB) Created on 12/11/2024 14:37 For QC Batch 1354094

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

QC Batch

QC Batch	1354259	Prep Method	N/A
Date	N/A	Analysis Method	SM2130B-2011
Tech.			

Associated Samples

3391582001 3391582002 3391582008 3391582009 3391582007

Duplicate 3916462 (DUP) 3391395001 (non-Project Sample) For QC Batch 1354259

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)				Qualifiers
Turbidity	Turb	DUP	0.15	0.15	RPD	0	(Max-10)	ND

Method Blank 3916460 (MB) Created on 12/11/2024 10:23 For QC Batch 1354259

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3916463 (MB) Created on 12/11/2024 10:23 For QC Batch 1354259

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3916717 (MB) Created on 12/11/2024 14:27 For QC Batch 1354259

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3916719 (DUP) 3391582007 For QC Batch 1354259

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)				Qualifiers
Turbidity	Turb	DUP	34	35	RPD	2.90	(Max-10)	

QC Batch

QC Batch	1354608	Prep Method	N/A
Date	N/A	Analysis Method	SM2130B-2011
Tech.			

Associated Samples

3391582003	3391582005	3391582004	3391582006
3391582011	3391582010		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3916937 (DUP) 3391607003 (non-Project Sample) For QC Batch 1354608

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	2.80	2.70	RPD	3.64 (Max-10)	

Method Blank 3916932 (MB) Created on 12/12/2024 07:10 For QC Batch 1354608

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3916934 (DUP) 3391582003 For QC Batch 1354608

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	70	70	RPD	0 (Max-10)	

Method Blank 3916935 (MB) Created on 12/12/2024 07:10 For QC Batch 1354608

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3916938 (MB) Created on 12/12/2024 07:10 For QC Batch 1354608

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1354645	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3391582001

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3917376 (DUP) 3391529001 (non-Project Sample) For QC Batch 1354645

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	1350	1372	RPD	1.62 (Max-5)	

Duplicate 3917377 (DUP) 3391540001 (non-Project Sample) For QC Batch 1354645

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	824	820	RPD	0.49 (Max-5)	

Method Blank 3917060 (MB) Created on 12/12/2024 09:17 For QC Batch 1354645

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3917061 (LCS) Created on 12/12/2024 09:17 For QC Batch 1354645

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	504		500	101	90 - 110		

QC Batch

QC Batch	1354647	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3391582003	3391582005	3391582002	3391582004
3391582008	3391582009	3391582007	3391582011
3391582010			

Method Blank 3917062 (MB) Created on 12/12/2024 09:18 For QC Batch 1354647

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3917063 (LCS) Created on 12/12/2024 09:18 For QC Batch 1354647

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	499		500	99.8	90 - 110		

Duplicate 3917378 (DUP) 3391582002 For QC Batch 1354647

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	824	826	RPD 0.24	(Max-5)	

Duplicate 3917379 (DUP) 3391582003 For QC Batch 1354647

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	654	678	RPD 3.60	(Max-5)	

QC Batch

QC Batch	1354777	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3391582003	3391582005	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Duplicate 3917485 (DUP) 3391335001 (non-Project Sample) For QC Batch 1354777

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	1.17	1.24	RPD	5.81	(Max-10)	J

Duplicate 3917487 (DUP) 3391507002 (non-Project Sample) For QC Batch 1354777

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	1073	1071	RPD	0.19	(Max-10)	

Duplicate 3917491 (DUP) 3391606003 (non-Project Sample) For QC Batch 1354777

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	201.10	199.90	RPD	0.60	(Max-10)	

Duplicate 3917493 (DUP) 3391609001 (non-Project Sample) For QC Batch 1354777

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	764	766	RPD	0.26	(Max-10)	

Duplicate 3917489 (DUP) 3391582004 For QC Batch 1354777

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	1090	1094	RPD	0.37	(Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1355240	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3391582003	3391582005	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Matrix Spike 3917950 (MS) 3391553001 (non-Project Sample) For QC Batch 1355240

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	474	451	25	NC	80 - 120		

Matrix Spike 3917957 (MS) 3391609001 (non-Project Sample) For QC Batch 1355240

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	23.5	11	10	125*	80 - 120		

Method Blank 3917948 (MB) Created on 12/13/2024 12:00 For QC Batch 1355240

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917949 (LCS) Created on 12/13/2024 12:00 For QC Batch 1355240

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Sulfate	SO4	LCS	50.7		50	101	90 - 110		

Lab Control Standard 3917951 (LCS) Created on 12/13/2024 12:00 For QC Batch 1355240

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.5		50	103	90 - 110		
Sulfate	SO4	LCS	51.4		50	103	90 - 110		

Method Blank 3917952 (MB) Created on 12/13/2024 12:00 For QC Batch 1355240

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3917953 (MS) 3391582011 For QC Batch 1355240

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	40.4	11	25	118	80 - 120		
Sulfate	SO4	MS	45.9	17	25	116	80 - 120		

Matrix Spike Duplicate 3917954 (MSD) 3391582011 For QC Batch 1355240

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MSD	40.3	11	25	117	80 - 120		
Sulfate	SO4	MSD	45.8	17	25	115	80 - 120		

Lab Control Standard 3917955 (LCS) Created on 12/13/2024 12:00 For QC Batch 1355240

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.4		50	103	90 - 110		
Sulfate	SO4	LCS	51.3		50	103	90 - 110		

Method Blank 3917956 (MB) Created on 12/13/2024 12:00 For QC Batch 1355240

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917958 (LCS) Created on 12/13/2024 12:00 For QC Batch 1355240

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.6		50	103	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3917959 (MB) Created on 12/13/2024 12:00 For QC Batch 1355240

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1356012	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3391582003	3391582005	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Duplicate 3918356 (DUP) 3391293006 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Alkalinity, Total	ALKT	DUP	1158.80	1162.80	RPD 0.34 (Max-20)	
pH	PH	DUP				

Duplicate 3918368 (DUP) 3391606001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	3.72	4.92	RPD	27.80* (Max-20)	ND
pH	PH	DUP	6.5810	6.5630	RPD	0.27 (Max-10)	

Duplicate 3918372 (DUP) 3391609001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	2.20	2.56	RPD	15.10 (Max-20)	ND
pH	PH	DUP	4.7120	4.7080	RPD	0.08 (Max-10)	

Duplicate 3918376 (DUP) 3391692001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	114.88	115.60	RPD	0.62 (Max-20)	
pH	PH	DUP					

Duplicate 3918380 (DUP) 3391762001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	320.44	320.76	RPD	0.10 (Max-20)	
pH	PH	DUP	8.2250	8.2180	RPD	0.09 (Max-10)	

Duplicate 3918384 (DUP) 3391762011 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	58.76	58.12	RPD	1.10	(Max-20)	
pH	PH	DUP	7.9750	7.9780	RPD	0.04	(Max-10)	

Duplicate 3918388 (DUP) 3391836002 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	293.60	295.08	RPD	0.50	(Max-20)	
pH	PH	DUP	8.2750	8.2740	RPD	0.01	(Max-10)	

Duplicate 3918392 (DUP) 3391836012 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP						
pH	PH	DUP	8.2550	8.2720	RPD	0.21	(Max-10)	

Duplicate 3918396 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP						
pH	PH	DUP	8.2860	8.2660	RPD	0.24	(Max-10)	

Duplicate 3918400 (DUP) 3391970001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	152.96	153.16	RPD	0.13	(Max-20)	
pH	PH	DUP	8.4450	8.4660	RPD	0.25	(Max-10)	

Duplicate 3918404 (DUP) 3391293001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	726.40	747.60	RPD	2.88	(Max-20)	
pH	PH	DUP						

Duplicate 3918405 (DUP) 3391293002 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	1240	1234	RPD	0.49	(Max-20)	
pH	PH	DUP						

Method Blank 3918354 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918358 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3918360 (DUP) 3391582001 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	832.80	813.20	RPD	2.38	(Max-20)	
pH	PH	DUP	8.2010	8.1320	RPD	0.84	(Max-10)	

Method Blank 3918362 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3918364 (DUP) 3391582010 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	668	687.60	RPD	2.89	(Max-20)	
pH	PH	DUP	8.1140	8.0550	RPD	0.73	(Max-10)	

Method Blank 3918366 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918370 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3918374 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918378 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918382 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918386 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918390 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918394 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	6	mg/L	5	

Method Blank 3918398 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918402 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1356448	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3391582006

Duplicate 3919484 (DUP) 3392203001 (non-Project Sample) For QC Batch 1356448

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	1762	1720	RPD	2.41 (Max-5)	

Duplicate 3919485 (DUP) 3392207006 (non-Project Sample) For QC Batch 1356448

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	422	406	RPD	3.86 (Max-5)	

Method Blank 3919293 (MB) Created on 12/17/2024 09:13 For QC Batch 1356448

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3919294 (LCS) Created on 12/17/2024 09:13 For QC Batch 1356448

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	498		500	99.6	90 - 110		

QC Batch

QC Batch	1356853	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3391582003	3391582005	3391582001	3391582002
3391582004	3391582008	3391582009	3391582007
3391582006	3391582011	3391582010	

Duplicate 3919941 (DUP) 3392210002 (non-Project Sample) For QC Batch 1356853

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Acidity, Total	ACID-T	DUP	3	2	RPD	40*	(Max-20)	ND

Method Blank 3919940 (MB) Created on 12/18/2024 09:28 For QC Batch 1356853

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3919943 (MB) Created on 12/18/2024 09:28 For QC Batch 1356853

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3919944 (DUP) 3391582009 For QC Batch 1356853

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Acidity, Total	ACID-T	DUP	14	18	RPD	25* (Max-20)	

Method Blank 3919946 (MB) Created on 12/18/2024 09:28 For QC Batch 1356853

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1356895	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3391582003	3391582005	3391582002	3391582011

Duplicate 3920063 (DUP) 3391836012 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	188.44	185.20	RPD	1.73 (Max-20)	

Duplicate 3920067 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	213.12	213.36	RPD	0.11 (Max-20)	

Duplicate 3920071 (DUP) 3391890009 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	169.28	168.08	RPD 0.71	(Max-20)	

Duplicate 3920075 (DUP) 3391971001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	233.76	234.64	RPD 0.38	(Max-20)	

Duplicate 3920079 (DUP) 3392026001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	90.28	90.76	RPD 0.53	(Max-20)	

Duplicate 3920083 (DUP) 3392026002 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	79.32	78.08	RPD 1.58	(Max-20)	

Duplicate 3920087 (DUP) 3392161001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3920091 (DUP) 3392161011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			ND

Duplicate 3920095 (DUP) 3392316001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3920099 (DUP) 3392379005 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3920103 (DUP) 3392402001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3920107 (DUP) 3392412001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			ND

Method Blank 3920061 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920065 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920069 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920073 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920077 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920081 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3920085 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920089 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920093 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920097 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920101 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920105 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920109 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391582001	MW-14	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354897
		N/A	N/A	N/A		SW846 8260D	1355209
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354259
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354645
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094
3391582002	MW-28	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354897
		N/A	N/A	N/A		SW846 8260D	1355209
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354259
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1354094
		N/A	N/A	N/A		SW846 9056A	1355240
3391582003	MW-37	SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1355209
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354608
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1354094
		N/A	N/A	N/A		SW846 9056A	1355240

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391582004	MW-45	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		SW846 8260D	1357494
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354608
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094
3391582005	MW-17	SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1355209
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354608
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1354094
		N/A	N/A	N/A		SW846 9056A	1355240
3391582006	MW-13	SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1355344
		N/A	N/A	N/A		SW846 8260D	1359655
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		SW846 8260D	1357494
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354608
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1356448
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094
3391582007	MW-12	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354897
		N/A	N/A	N/A		SW846 8260D	1355209
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354259
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391582008	MW-15	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354897
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		SW846 8260D	1357494
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354259
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094
3391582009	MW-15-Dup	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1355344
		N/A	N/A	N/A		SW846 8260D	1357494
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354259
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094
3391582010	MW-16	SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358395
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1355344
		N/A	N/A	N/A		SW846 8260D	1357494
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354608
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094
3391582011	MW-2	SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1371115
		SW846 3015A	1354456	12/12/2024 05:30	ANN	SW846 6010C	1358127
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1355344
		SW846 3510C	1354605	12/12/2024 08:40	DEC	SW846 8270E	1354988
		N/A	N/A	N/A		SW846 8260D	1356391
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354608
		N/A	N/A	N/A		SM2310B-2011	1356853
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1354647
		N/A	N/A	N/A		SW846 9050A	1354777
		N/A	N/A	N/A		SW846 9056A	1355240
		N/A	N/A	N/A		SW846 9056A	1354094

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391582012	TB-41	N/A	N/A	N/A		SW846 8260D	1356391

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3391582 Logged By: CXW PM: EXP

ALS Quot

1 of 2

Client Name: Michael Baker Int'l

Address: 100 Airside Drive
Moon Twp, PA

Contact: Chris Knupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

	Container Type	G	G	P	P	P					
	Container Size	3 40 mL	1 500 mL	4 125 mL	1 125mL	1L					
	Preservative	HCl	None	HNO3	HNO3	None	MJE 12/11/24				

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chemistry					
					Enter Number of Containers Per Sample or Field Results Below.											
1	MW-14	12/10/24	935		G	GW	x3	x1	x2	x2	x2	MJE 12/11/24				
2	MW-28		1055				x3	x1	x2	x2	x2					
3	MW-37		1430				x3	x1	x2	x2	x2					
4	MW-45		1610				x	x	x	x	x					
5	MW-17		1420				x	x	x	x	x					
6	MW-13		1550				x	x	x	x	x					
7	MW-12		915				x	x	x	x	x					
8	MW-15		1115				x	x	x	x	x					
9	MW-15-DUP		1130				x	x	x	x	x					
10	MW-16		1430				x	x	x	x	x					

Temp Taken By: MJE Therm ID: 569 WO Temp (°C) 2°

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler (

Sample

Receive

Coolers

Correct

Sample

Adequa

VOA or

NJ ≤ 4

Courier/

Temp By:	WO Temp (°C)	Therm ID
MJE	2°	569

Deviations? NO YES If YES, list below

Receipt Info Completed By:	MJE
Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N NA
Cooler & Samples Intact	Y N
Correct Containers Provided	Y N
Sample Label/COC Agree	Y N
Adequate Sample Volumes	Y N
CR6 Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Trip Blank	Y N NA
NIS 4 Days?	Y N
Rad Screen (uCi)	
Courier/Tracking #:	283072244315
SDWA Compliance	Y N
PWSID	
WV Containers 0-6°C	Y N NA

Client contact:

eTech:

Sample

Report

SDWA

PWSID

PWS C

reen (uCi)

urce? Y N

urce Contact:

*No sampler - MJE 12/11/24

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

MW-45, MW-2, MW-15, MW-13, MW-16 are considered "Hot"
MW-15D

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/10/24	1800	1	Dave Gavaglia / MBI	2	Fedex
12/11/24	921	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

283072244315

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 2 of 2

ALS Quote #:

Client Name: Michael Baker Intl.

Address: 100 Airside Drive
Moon Twp., PA

Contact: Chris Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

	Container Type	Container Size	Preservative
	G	3 40 mL	HCl
	G	1 500 mL	UNP
	P	1 125 mL	HNO_3
	AG	1 1L	HNO_3
	P	1 1L	UNP
	MJE		12/10/24

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. metals + Hg 6010/7471B	Gen. Chemistry						
1	MW-2	12/10/24	1545		G	GW	X3	X1	X2	X2	X2						
2	TB-41	—	—		—	—	X2				MJE 12/11/24						
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)

Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N

Courier/Tracking #

Deviations? NO YES

If YES, list below

Client contact:

Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)

Reportable SDWA Sample(s)? Y N New Source? Y N

SDWA State of Origin? New Source Contact:

PWSID #

PWS Contact: PWS Phone #:

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time	Relinquished By / Company Name	Received By / Company Name
12/10/24	1800	1 Dave Gavisla / MBI	2 Fedex
12/11/24	921	3 Fedex	4
		5	6
		7	8
		9	10

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3391836
Report ID 380378 on 1/9/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 12, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3391836001	MW-25	Ground Water	12/11/2024 09:50	12/12/2024 09:04	CBC	Collected By Client
3391836002	MW-24	Ground Water	12/11/2024 11:15	12/12/2024 09:04	CBC	Collected By Client
3391836003	MW-24-DUP	Ground Water	12/11/2024 11:30	12/12/2024 09:04	CBC	Collected By Client
3391836004	MW-20	Ground Water	12/11/2024 12:45	12/12/2024 09:04	CBC	Collected By Client
3391836005	MW-1	Ground Water	12/11/2024 09:10	12/12/2024 09:04	CBC	Collected By Client
3391836006	MW-4	Ground Water	12/11/2024 10:50	12/12/2024 09:04	CBC	Collected By Client
3391836007	MW-5S	Ground Water	12/11/2024 12:20	12/12/2024 09:04	CBC	Collected By Client
3391836008	MW-18	Ground Water	12/11/2024 09:55	12/12/2024 09:04	CBC	Collected By Client
3391836009	MW-3	Ground Water	12/11/2024 11:25	12/12/2024 09:04	CBC	Collected By Client
3391836010	MW-7	Ground Water	12/11/2024 13:15	12/12/2024 09:04	CBC	Collected By Client
3391836011	MW-21	Ground Water	12/11/2024 13:15	12/12/2024 09:04	CBC	Collected By Client
3391836012	MW-5D	Ground Water	12/11/2024 15:40	12/12/2024 09:04	CBC	Collected By Client
3391836013	MW-23	Ground Water	12/11/2024 15:25	12/12/2024 09:04	CBC	Collected By Client
3391836014	MW-38D	Ground Water	12/11/2024 16:30	12/12/2024 09:04	CBC	Collected By Client
3391836015	TB-42	Ground Water	12/11/2024 00:00	12/12/2024 09:04	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The QC sample type DUP for method SM2310B-2011 was outside the control limits for the analyte Acidity, Total. The RPD was reported as 29.3 and the upper control limit is 20.
2	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
3	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
4	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
5	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Butylbenzylphthalate. The % Recovery was reported as 123 and the control limits were 80 to 120.
6	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Chloroethane. The % Recovery was reported as 215 and the control limits were 51 to 142.
7	The QC sample type MSD for method SW846 7470A was outside the control limits for the analyte Mercury, Total. The RPD was reported as 23 and the upper control limit is 20.
8	The QC sample type MS for method SW846 6010C was outside the control limits for the analyte Calcium, Dissolved. The % Recovery was reported as -44.2 and the control limits were 75 to 125.
9	The QC sample type MS for method SW846 6010C was outside the control limits for the analyte Magnesium, Dissolved. The % Recovery was reported as 74.4 and the control limits were 75 to 125.
11	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 64.1 and the control limits were 80 to 120.
12	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 72.5 and the control limits were 80 to 120.

Detected Results Summary

Client Sample ID	MW-25	Collected	12/11/2024 09:50
Lab Sample ID	3391836001	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.081	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.085	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	247	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	247	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0047J	mg/L	0.0056	0.0020	SW846 6010C	#
Cobalt, Dissolved	0.0033J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0040J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	15.7	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	16.8	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	39.2	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	39.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.5	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.5	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	11.5	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	11.6	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0087J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.0090J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	64.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	65.5	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	35	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	460	mg/L	50	50	SM2320B-2011	#
Chloride	103	mg/L	5.0	2.2	SW846 9056A	#
pH	8.30	pH_Units			S4500HB-11	#
Specific Conductance	1580	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	339	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1100	mg/L	25	25	SM2540C-15	#
Turbidity	130	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-24	Collected	12/11/2024 11:15
Lab Sample ID	3391836002	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0097	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.013	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	281	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	286	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0058	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0026J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0049J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	14.4	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	14.1	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	45.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	47.2	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.0	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.1	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	26.4	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	27.3	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	75.7	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	76.9	mg/L	0.56	0.18	SW846 6010C	#
VOLATILE ORGANICS						
Benzene	43.4	ug/L	1.0	0.23	SW846 8260D	#
Ethylbenzene	0.57J	ug/L	1.0	0.34	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	22	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	295	mg/L	5	5	SM2320B-2011	#
Chloride	70.9	mg/L	5.0	2.2	SW846 9056A	#
pH	8.27	pH_Units			S4500HB-11	#
Specific Conductance	1850	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	708	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1420	mg/L	25	25	SM2540C-15	#
Turbidity	75	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-24-DUP	Collected	12/11/2024 11:30
Lab Sample ID	3391836003	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0073J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.010	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.12	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	280	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	283	mg/L	0.11	0.036	SW846 6010C	#
Copper, Total	0.0050J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	14.6	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	14.7	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	45.7	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	46.3	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.0	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.1	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	26.3	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	26.8	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0089J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.011J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	75.3	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	76.3	mg/L	0.56	0.18	SW846 6010C	#
VOLATILE ORGANICS						
Benzene	37.7	ug/L	1.0	0.23	SW846 8260D	#
Carbon Disulfide	0.29J	ug/L	1.0	0.23	SW846 8260D	#
Ethylbenzene	0.52J	ug/L	1.0	0.34	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	36	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	294	mg/L	5	5	SM2320B-2011	#
Chloride	73.8	mg/L	5.0	2.2	SW846 9056A	#
pH	8.28	pH_Units			S4500HB-11	#
Specific Conductance	1850	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	697	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1380	mg/L	25	25	SM2540C-15	#
Turbidity	70	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-20	Collected	12/11/2024 12:45
Lab Sample ID	3391836004	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.037	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.038	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	122	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	121	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.80	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.80	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	40.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	40.3	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.085	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.082	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	1.9	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	2.1	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.021J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	44.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	43.9	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	22	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	397	mg/L	5	5	SM2320B-2011	#
Chloride	3.4	mg/L	2.0	0.88	SW846 9056A	#
Nitrate-N	4.5	mg/L	1.0	0.32	SW846 9056A	#
pH	8.44	pH_Units			S4500HB-11	#
Specific Conductance	929	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	112	mg/L	2.0	1.4	SW846 9056A	#
Total Dissolved Solids	638	mg/L	25	25	SM2540C-15	#
Turbidity	1.5	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-1	Collected	12/11/2024 09:10
Lab Sample ID	3391836005	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Dissolved	0.86	mg/L	0.11	0.036	SW846 6010C	#
Aluminum, Total	0.76	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.0038J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0063J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.054	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.050	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	83.8	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	77.9	mg/L	0.11	0.036	SW846 6010C	#
Potassium, Dissolved	4.9	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	4.8	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.0087J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	15.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	16.2	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Benzo(a)anthracene	0.53J	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.55J	ug/L	1.5	0.26	SW846 8270E	#
Benzo(b)fluoranthene	0.69J	ug/L	1.5	0.30	SW846 8270E	#
Benzo(g,h,i)perylene	0.58J	ug/L	1.5	0.36	SW846 8270E	#
Benzo(k)fluoranthene	0.65J	ug/L	1.5	0.34	SW846 8270E	#
bis(2-Ethylhexyl)phthalate	0.72J	ug/L	3.0	0.47	SW846 8270E	#
Butylbenzylphthalate	0.50J	ug/L	3.0	0.31	SW846 8270E	#
Chrysene	0.57J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzo(a,h)anthracene	0.65J	ug/L	1.5	0.32	SW846 8270E	#
Di-n-Octylphthalate	0.65J	ug/L	3.0	0.25	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	0.61J	ug/L	1.5	0.31	SW846 8270E	#
Pyrene	0.25J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	0.54J	ug/L	1.0	0.23	SW846 8260D	#
Carbon Disulfide	0.40J	ug/L	1.0	0.23	SW846 8260D	#
Chloroform	8.0	ug/L	1.0	0.21	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	132	mg/L	5	5	SM2320B-2011	#
Chloride	22.9	mg/L	2.0	0.88	SW846 9056A	#
pH	9.97	pH_Units			S4500HB-11	#
Specific Conductance	751	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	59.3	mg/L	2.0	1.4	SW846 9056A	#
Total Dissolved Solids	334	mg/L	25	25	SM2540C-15	#
Turbidity	1.0	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-4	Collected	12/11/2024 10:50
Lab Sample ID	3391836006	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.45	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.62	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	290	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	294	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0058	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0027J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0098J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	19.4	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	24.9	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	56.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	58.6	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.7	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.8	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	15.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	15.8	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0091J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	154	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	155	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	81	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	721	mg/L	50	50	SM2320B-2011	#
Chloride	336	mg/L	5.0	2.2	SW846 9056A	#
pH	8.27	pH_Units			S4500HB-11	#
Specific Conductance	204	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	151	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1440	mg/L	25	25	SM2540C-15	#
Turbidity	160	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-5S	Collected	12/11/2024 12:20
Lab Sample ID	3391836007	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.037	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.039	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	257	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	260	mg/L	0.11	0.036	SW846 6010C	#
Copper, Total	0.0040J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	4.3	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	4.7	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	29.5	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	30.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.79	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.77	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	29.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	33.0	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0079J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.013J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	61.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	64.1	mg/L	0.56	0.18	SW846 6010C	#
Zinc, Total	0.070	mg/L	0.022	0.0073	SW846 6010C	#
VOLATILE ORGANICS						
Benzene	0.41J	ug/L	1.0	0.23	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	10	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	206	mg/L	5	5	SM2320B-2011	#
Chloride	60.9	mg/L	5.0	2.2	SW846 9056A	#
pH	8.32	pH_Units			S4500HB-11	#
Specific Conductance	1590	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	640	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1210	mg/L	25	25	SM2540C-15	#
Turbidity	55	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-18	Collected	12/11/2024 09:55
Lab Sample ID	3391836008	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.078J	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.025	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.029	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.26	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.27	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	225	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	226	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0028J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	16.2	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	17.2	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	35.8	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	36.6	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.4	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.4	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	9.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	10	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	57.7	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	58.7	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	36	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	402	mg/L	5	5	SM2320B-2011	#
Chloride	102	mg/L	5.0	2.2	SW846 9056A	#
pH	8.35	pH_Units			S4500HB-11	#
Specific Conductance	1420	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	282	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	992	mg/L	25	25	SM2540C-15	#
Turbidity	180	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-3	Collected	12/11/2024 11:25
Lab Sample ID	3391836009	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Total	0.0064J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.10	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.10	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	206	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	213	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0022J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0053J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	9.5	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	9.9	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	33.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	34.1	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.29	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.29	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	14.2	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	14.4	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	64.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	66.0	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	14	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	268	mg/L	5	5	SM2320B-2011	#
Chloride	89.6	mg/L	5.0	2.2	SW846 9056A	#
pH	8.35	pH_Units			S4500HB-11	#
Specific Conductance	1400	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	418	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1020	mg/L	25	25	SM2540C-15	#
Turbidity	100	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-7	Collected	12/11/2024 13:15
Lab Sample ID	3391836010	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0066J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.011	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.050	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.051	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	206	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	211	mg/L	0.11	0.036	SW846 6010C	#
Cobalt, Total	0.0036J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	2.8	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	3.2	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	36.2	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	36.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.34	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.34	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	8.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	8.7	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.021J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.0093J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	39.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	40.2	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	22	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	321	mg/L	5	5	SM2320B-2011	#
Chloride	72.1	mg/L	5.0	2.2	SW846 9056A	#
pH	8.32	pH_Units			S4500HB-11	#
Specific Conductance	1280	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	317	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	928	mg/L	25	25	SM2540C-15	#
Turbidity	35	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-21	Collected	12/11/2024 13:15
Lab Sample ID	3391836011	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.041	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.041	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	222	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	229	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0024J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0040J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.11	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.13	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	7.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	7.7	mg/L	0.11	0.036	SW846 6010C	#
Potassium, Dissolved	8.8	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	8.9	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.0097J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.018J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	135	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	138	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	1.9J	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	2.1	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	0.51J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	0.75J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	0.45J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	2.6J	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	0.39J	ug/L	3.0	0.25	SW846 8270E	#
Fluorene	0.37J	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	11.3	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	46.2	ug/L	1.5	0.65	SW846 8270E	#
o-Cresol	6.6	ug/L	3.0	0.50	SW846 8270E	#
Phenol	16.9	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
Benzene	13.7	ug/L	5.0	1.2	SW846 8260D	#
Toluene	1.4J	ug/L	5.0	1.2	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	67	mg/L	5	5	SM2320B-2011	#
Chloride	194	mg/L	5.0	2.2	SW846 9056A	#
pH	9.29	pH_Units			S4500HB-11	#
Specific Conductance	1640	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	570	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1180	mg/L	25	25	SM2540C-15	#
Turbidity	3.1	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-5D	Collected	12/11/2024 15:40
Lab Sample ID	3391836012	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.048	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.049	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	341	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	351	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0024J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0039J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0053J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	13.1	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	13.4	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	45.7	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	45.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.81	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.83	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	16.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	16.4	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.010J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	78.1	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	78.5	mg/L	0.56	0.18	SW846 6010C	#
Zinc, Total	0.13	mg/L	0.022	0.0073	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	20	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	185	mg/L	5	5	SM2320B-2011	#
Chloride	125	mg/L	5.0	2.2	SW846 9056A	#
pH	8.27	pH_Units			S4500HB-11	#
Specific Conductance	2040	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	882	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1640	mg/L	25	25	SM2540C-15	#
Turbidity	130	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-23	Collected	12/11/2024 15:25
Lab Sample ID	3391836013	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Dissolved	0.014J	mg/L	0.022	0.010	SW846 6010C	#
Barium, Dissolved	0.063	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.064	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	186	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	197	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0022J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0024J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0038J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0060J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.22	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.22	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	51.0	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	52.2	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.035	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.036	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	6.8	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	7.0	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.12	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.13	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	81.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	82.2	mg/L	0.56	0.18	SW846 6010C	#
VOLATILE ORGANICS						
Benzene	21.6	ug/L	5.0	1.2	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	19	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	325	mg/L	5	5	SM2320B-2011	#
Chloride	63.2	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	37.9	mg/L	2.5	0.80	SW846 9056A	#
pH	8.42	pH_Units			S4500HB-11	#
Specific Conductance	1530	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	299	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1070	mg/L	25	25	SM2540C-15	#
Turbidity	1.5	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-38D	Collected	12/11/2024 16:30
Lab Sample ID	3391836014	Lab Receipt	12/12/2024 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.020	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.020	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	329	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	337	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0047J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0042J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0068J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.014	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	3.3	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	3.3	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	76.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	77.1	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.35	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.33	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.2	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.21	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.21	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	17.9	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	17.9	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	40	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	382	mg/L	5	5	SM2320B-2011	#
Chloride	9.4	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	39.8	mg/L	2.5	0.80	SW846 9056A	#
pH	8.28	pH_Units			S4500HB-11	#
Specific Conductance	1870	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	601	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1510	mg/L	25	25	SM2540C-15	#
Turbidity	1.1	NTU	0.30	0.30	SM2130B-2011	#

Results

Client Sample ID	MW-25	Collected	12/11/2024 09:50
Lab Sample ID	3391836001	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:01	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:34	MSY	E1
Barium, Dissolved	0.081		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Barium, Total	0.085		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Calcium, Dissolved	247		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Calcium, Total	247		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Chromium, Total	0.0047J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Cobalt, Dissolved	0.0033J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Copper, Total	0.0040J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Iron, Dissolved	15.7		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Iron, Total	16.8		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Magnesium, Dissolved	39.2		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Magnesium, Total	39.7		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Manganese, Dissolved	1.5		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Manganese, Total	1.5		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:23	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:14	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Potassium, Dissolved	11.5		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Potassium, Total	11.6		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Selenium, Dissolved	0.0087J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Selenium, Total	0.0090J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Sodium, Dissolved	64.9		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Sodium, Total	65.5		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:39	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:11	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:39	MSY	E1

Results

Client Sample ID	MW-25	Collected	12/11/2024 09:50
Lab Sample ID	3391836001	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 00:19	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 00:19	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 00:19	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 00:19	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 00:19	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 00:19	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 00:19	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 00:19	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 00:19	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 00:19	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 00:19	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 00:19	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 00:19	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 00:19	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D

Results

Client Sample ID	MW-25	Collected	12/11/2024 09:50
Lab Sample ID	3391836001	Lab Receipt	12/12/2024 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 00:19	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 00:19	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 00:19	M1O	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 00:19	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 00:19	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 00:19	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 00:19	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 00:19	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 00:19	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 00:19	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 00:19	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 00:19	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:19	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	76.6%	23 – 131	12/18/2024 00:19	
2-Fluorobiphenyl	321-60-8	75%	24 – 116	12/18/2024 00:19	
2-Fluorophenol	367-12-4	53.5%	10 – 85	12/18/2024 00:19	
Nitrobenzene-d5	4165-60-0	79.8%	32 – 125	12/18/2024 00:19	
Phenol-d5	4165-62-2	42.2%	7 – 56	12/18/2024 00:19	
Terphenyl-d14	98904-43-9	60.9%	41 – 145	12/18/2024 00:19	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 13:09	TMP	A

Results

Client Sample ID	MW-25	Collected	12/11/2024 09:50
Lab Sample ID	3391836001	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 13:09	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 13:09	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 13:09	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 13:09	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 13:09	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 13:09	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:09	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:09	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 13:09	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 13:09	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 13:09	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:09	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:09	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 13:09	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 13:09	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:09	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 13:09	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:09	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:09	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:09	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:09	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:09	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 13:09	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 13:09	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 13:09	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 13:09	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 13:09	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:09	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 13:09	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 13:09	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:09	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:09	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 13:09	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:09	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 13:09	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 13:09	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:09	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:09	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:09	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 13:09	TMP	A

Results

Client Sample ID	MW-25	Collected	12/11/2024 09:50
Lab Sample ID	3391836001	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.3%	62 – 133	12/18/2024 13:09	
4-Bromofluorobenzene	460-00-4	95.9%	79 – 114	12/18/2024 13:09	
Dibromofluoromethane	1868-53-7	94%	78 – 116	12/18/2024 13:09	
Toluene-d8	2037-26-5	97.5%	76 – 127	12/18/2024 13:09	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	35	1,2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	460	3	mg/L	50	50	SM2320B-2011	10	12/18/2024 17:12	KMV	I
Chloride	103		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:46	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 19:46	J1W	I
pH	8.30	4	pH_Units			S4500HB-11	1	12/16/2024 23:39	KMV	I
Specific Conductance	1580		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	339		mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 19:46	J1W	I
Total Dissolved Solids	1100		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	130		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-24	Collected	12/11/2024 11:15
Lab Sample ID	3391836002	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:02	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Arsenic, Dissolved	0.0097		mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Arsenic, Total	0.013		mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:36	MSY	E1
Barium, Dissolved	0.12		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Barium, Total	0.12		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Calcium, Dissolved	281		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Calcium, Total	286		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Chromium, Dissolved	0.0058		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Chromium, Total	0.0026J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Copper, Total	0.0049J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Iron, Dissolved	14.4		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Iron, Total	14.1		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Magnesium, Dissolved	45.6		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Magnesium, Total	47.2		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Manganese, Dissolved	1.0		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Manganese, Total	1.1		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:28	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:17	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Potassium, Dissolved	26.4		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Potassium, Total	27.3		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Sodium, Dissolved	75.7		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Sodium, Total	76.9		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:40	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:12	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:40	MSY	E1

Results

Client Sample ID	MW-24	Collected	12/11/2024 11:15
Lab Sample ID	3391836002	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 01:33	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 01:33	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 01:33	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:33	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 01:33	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 01:33	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 01:33	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 01:33	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 01:33	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 01:33	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 01:33	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:33	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 01:33	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 01:33	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 01:33	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 01:33	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 01:33	M1O	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 01:33	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 01:33	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 01:33	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 01:33	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 01:33	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 01:33	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 01:33	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 01:33	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 01:33	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:33	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	64.1%	23 – 131	12/18/2024 01:33	
2-Fluorobiphenyl	321-60-8	60.6%	24 – 116	12/18/2024 01:33	
2-Fluorophenol	367-12-4	43.6%	10 – 85	12/18/2024 01:33	
Nitrobenzene-d5	4165-60-0	64.8%	32 – 125	12/18/2024 01:33	
Phenol-d5	4165-62-2	34.3%	7 – 56	12/18/2024 01:33	
Terphenyl-d14	98904-43-9	48%	41 – 145	12/18/2024 01:33	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 13:29	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 13:29	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 13:29	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 13:29	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 13:29	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 13:29	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 13:29	TMP	A
Benzene	43.4		ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:29	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:29	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 13:29	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 13:29	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 13:29	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:29	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:29	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 13:29	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 13:29	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:29	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 13:29	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:29	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:29	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:29	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:29	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:29	TMP	A
Ethylbenzene	0.57J	J	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 13:29	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 13:29	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 13:29	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 13:29	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 13:29	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:29	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 13:29	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 13:29	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:29	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:29	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 13:29	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:29	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 13:29	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 13:29	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:29	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:29	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:29	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 13:29	TMP	A

Results

Client Sample ID	MW-24	Collected	12/11/2024 11:15
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/18/2024 13:29	
4-Bromofluorobenzene	460-00-4	92.6%	79 – 114	12/18/2024 13:29	
Dibromofluoromethane	1868-53-7	98.2%	78 – 116	12/18/2024 13:29	
Toluene-d8	2037-26-5	101%	76 – 127	12/18/2024 13:29	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	22	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	295	3	mg/L	5	5	SM2320B-2011	1	12/16/2024 23:51	KMV	I
Chloride	70.9		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 19:58	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 19:58	J1W	I
pH	8.27	4	pH_Units			S4500HB-11	1	12/16/2024 23:51	KMV	I
Specific Conductance	1850		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	708		mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 13:44	J1W	I
Total Dissolved Solids	1420		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	75		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-24-DUP	Collected	12/11/2024 11:30
Lab Sample ID	3391836003	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:03	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Arsenic, Dissolved	0.0073J	J	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Arsenic, Total	0.010		mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:37	MSY	E1
Barium, Dissolved	0.12		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Barium, Total	0.12		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Calcium, Dissolved	280		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Calcium, Total	283		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Copper, Total	0.0050J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Iron, Dissolved	14.6		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Iron, Total	14.7		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Magnesium, Dissolved	45.7		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Magnesium, Total	46.3		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Manganese, Dissolved	1.0		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Manganese, Total	1.1		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:12	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:11	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Potassium, Dissolved	26.3		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Potassium, Total	26.8		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Selenium, Dissolved	0.0089J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Selenium, Total	0.011J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Sodium, Dissolved	75.3		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Sodium, Total	76.3		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:41	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:13	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:41	MSY	E1

Results

Client Sample ID	MW-24-DUP	Collected	12/11/2024 11:30
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 02:22	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 02:22	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 02:22	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 02:22	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 02:22	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 02:22	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 02:22	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 02:22	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 02:22	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 02:22	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 02:22	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 02:22	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 02:22	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 02:22	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 02:22	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 02:22	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 02:22	M1O	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 02:22	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 02:22	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 02:22	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 02:22	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 02:22	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 02:22	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 02:22	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 02:22	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 02:22	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 02:22	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	70.8%	23 – 131	12/18/2024 02:22	
2-Fluorobiphenyl	321-60-8	79.5%	24 – 116	12/18/2024 02:22	
2-Fluorophenol	367-12-4	44.1%	10 – 85	12/18/2024 02:22	
Nitrobenzene-d5	4165-60-0	82.1%	32 – 125	12/18/2024 02:22	
Phenol-d5	4165-62-2	41.2%	7 – 56	12/18/2024 02:22	
Terphenyl-d14	98904-43-9	73.1%	41 – 145	12/18/2024 02:22	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 13:48	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 13:48	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 13:48	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 13:48	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 13:48	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 13:48	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 13:48	TMP	A
Benzene	37.7		ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:48	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:48	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 13:48	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 13:48	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 13:48	TMP	A
Carbon Disulfide	0.29J	J	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:48	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:48	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 13:48	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 13:48	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:48	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 13:48	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:48	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 13:48	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 13:48	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:48	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:48	TMP	A
Ethylbenzene	0.52J	J	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 13:48	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 13:48	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 13:48	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 13:48	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 13:48	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:48	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 13:48	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 13:48	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:48	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:48	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 13:48	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 13:48	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 13:48	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 13:48	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 13:48	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 13:48	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 13:48	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 13:48	TMP	A

Results

Client Sample ID	MW-24-DUP	Collected	12/11/2024 11:30
Lab Sample ID	3391836003	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/18/2024 13:48	
4-Bromofluorobenzene	460-00-4	91.3%	79 – 114	12/18/2024 13:48	
Dibromofluoromethane	1868-53-7	98.2%	78 – 116	12/18/2024 13:48	
Toluene-d8	2037-26-5	102%	76 – 127	12/18/2024 13:48	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	36	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	294	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 17:25	KMV	I
Chloride	73.8		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 20:09	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 20:09	J1W	I
pH	8.28	4	pH_Units			S4500HB-11	1	12/17/2024 00:47	KMV	I
Specific Conductance	1850		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	697		mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 13:55	J1W	I
Total Dissolved Solids	1380		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	70		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-20	Collected	12/11/2024 12:45
Lab Sample ID	3391836004	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:04	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:38	MSY	E1
Barium, Dissolved	0.037		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Barium, Total	0.038		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Calcium, Dissolved	122		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Calcium, Total	121		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Chromium, Total	0.0021J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Iron, Dissolved	0.80		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Iron, Total	0.80		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Magnesium, Dissolved	40.9		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Magnesium, Total	40.3		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Manganese, Dissolved	0.085		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Manganese, Total	0.082		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:17	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:07	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Potassium, Dissolved	1.9		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Potassium, Total	2.1		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Selenium, Dissolved	0.021J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 09:38	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Sodium, Dissolved	44.0		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Sodium, Total	43.9		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:42	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:20	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:42	MSY	E1

Results

Client Sample ID	MW-20	Collected	12/11/2024 12:45
Lab Sample ID	3391836004	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 16:58	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 16:58	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 16:58	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 16:58	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 16:58	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 16:58	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 16:58	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 16:58	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 16:58	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 16:58	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 16:58	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 16:58	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 16:58	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 16:58	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D

Results

Client Sample ID	MW-20	Collected	12/11/2024 12:45
Lab Sample ID	3391836004	Lab Receipt	12/12/2024 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 16:58	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 16:58	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 16:58	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 16:58	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 16:58	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 16:58	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 16:58	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 16:58	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 16:58	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 16:58	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 16:58	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 16:58	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:58	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	94.7%	23 – 131	12/18/2024 16:58	
2-Fluorobiphenyl	321-60-8	83.8%	24 – 116	12/18/2024 16:58	
2-Fluorophenol	367-12-4	58.2%	10 – 85	12/18/2024 16:58	
Nitrobenzene-d5	4165-60-0	85.5%	32 – 125	12/18/2024 16:58	
Phenol-d5	4165-62-2	43.9%	7 – 56	12/18/2024 16:58	
Terphenyl-d14	98904-43-9	75.4%	41 – 145	12/18/2024 16:58	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 14:08	TMP	A

Results

Client Sample ID	MW-20	Collected	12/11/2024 12:45
Lab Sample ID	3391836004	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 14:08	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 14:08	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 14:08	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 14:08	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 14:08	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 14:08	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:08	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:08	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 14:08	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 14:08	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 14:08	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:08	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:08	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 14:08	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 14:08	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:08	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 14:08	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:08	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:08	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:08	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:08	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:08	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 14:08	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 14:08	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 14:08	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 14:08	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 14:08	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:08	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 14:08	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 14:08	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:08	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:08	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 14:08	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:08	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 14:08	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 14:08	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:08	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:08	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:08	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 14:08	TMP	A

Results

Client Sample ID	MW-20	Collected	12/11/2024 12:45
Lab Sample ID	3391836004	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99%	62 – 133	12/18/2024 14:08	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	12/18/2024 14:08	
Dibromofluoromethane	1868-53-7	94.3%	78 – 116	12/18/2024 14:08	
Toluene-d8	2037-26-5	99.7%	76 – 127	12/18/2024 14:08	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	22	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	397	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 17:43	KMV	I
Chloride	3.4		mg/L	2.0	0.88	SW846 9056A	2	12/12/2024 21:18	J1W	I
Nitrate-N	4.5		mg/L	1.0	0.32	SW846 9056A	2	12/12/2024 21:18	J1W	I
pH	8.44	4	pH_Units			S4500HB-11	1	12/17/2024 01:04	KMV	I
Specific Conductance	929		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	112		mg/L	2.0	1.4	SW846 9056A	2	12/12/2024 21:18	J1W	I
Total Dissolved Solids	638		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	1.5		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-1	Collected	12/11/2024 09:10
Lab Sample ID	3391836005	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	0.86		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Aluminum, Total	0.76		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:06	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Arsenic, Dissolved	0.0038J	J	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Arsenic, Total	0.0063J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:39	MSY	E1
Barium, Dissolved	0.054		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Barium, Total	0.050		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Calcium, Dissolved	83.8		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Calcium, Total	77.9		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Iron, Dissolved	ND	ND	mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Iron, Total	ND	ND	mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Magnesium, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Magnesium, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Manganese, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Manganese, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:18	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:15	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Potassium, Dissolved	4.9		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Potassium, Total	4.8		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Selenium, Total	0.0087J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Sodium, Dissolved	15.9		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Sodium, Total	16.2		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:43	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:21	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:43	MSY	E1

Results

Client Sample ID	MW-1	Collected	12/11/2024 09:10
Lab Sample ID	3391836005	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/17/2024 23:55	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/17/2024 23:55	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/17/2024 23:55	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/17/2024 23:55	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/17/2024 23:55	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/17/2024 23:55	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Benzo(a)anthracene	0.53J	J	ug/L	1.5	0.28	SW846 8270E	1	12/17/2024 23:55	M1O	D
Benzo(a)pyrene	0.55J	J	ug/L	1.5	0.26	SW846 8270E	1	12/17/2024 23:55	M1O	D
Benzo(b)fluoranthene	0.69J	J	ug/L	1.5	0.30	SW846 8270E	1	12/17/2024 23:55	M1O	D
Benzo(g,h,i)perylene	0.58J	J	ug/L	1.5	0.36	SW846 8270E	1	12/17/2024 23:55	M1O	D
Benzo(k)fluoranthene	0.65J	J	ug/L	1.5	0.34	SW846 8270E	1	12/17/2024 23:55	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
bis(2-Ethylhexyl)phthalate	0.72J	J	ug/L	3.0	0.47	SW846 8270E	1	12/17/2024 23:55	M1O	D
Butylbenzylphthalate	0.50J	J	ug/L	3.0	0.31	SW846 8270E	1	12/17/2024 23:55	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/17/2024 23:55	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D

Results

Client Sample ID	MW-1	Collected	12/11/2024 09:10
Lab Sample ID	3391836005	Lab Receipt	12/12/2024 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.57J	J	ug/L	1.5	0.26	SW846 8270E	1	12/17/2024 23:55	M1O	D
Dibenzo(a,h)anthracene	0.65J	J	ug/L	1.5	0.32	SW846 8270E	1	12/17/2024 23:55	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/17/2024 23:55	M1O	D
Di-n-Octylphthalate	0.65J	J	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/17/2024 23:55	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/17/2024 23:55	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Indeno(1,2,3-cd)pyrene	0.61J	J	ug/L	1.5	0.31	SW846 8270E	1	12/17/2024 23:55	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/17/2024 23:55	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/17/2024 23:55	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/17/2024 23:55	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/17/2024 23:55	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/17/2024 23:55	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/17/2024 23:55	M1O	D
Pyrene	0.25J	J	ug/L	1.5	0.25	SW846 8270E	1	12/17/2024 23:55	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	91.3%	23 – 131	12/17/2024 23:55	
2-Fluorobiphenyl	321-60-8	78.2%	24 – 116	12/17/2024 23:55	
2-Fluorophenol	367-12-4	60%	10 – 85	12/17/2024 23:55	
Nitrobenzene-d5	4165-60-0	84.1%	32 – 125	12/17/2024 23:55	
Phenol-d5	4165-62-2	45.2%	7 – 56	12/17/2024 23:55	
Terphenyl-d14	98904-43-9	102%	41 – 145	12/17/2024 23:55	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 14:28	TMP	A

Results

Client Sample ID	MW-1	Collected	12/11/2024 09:10
Lab Sample ID	3391836005	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 14:28	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 14:28	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 14:28	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 14:28	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 14:28	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 14:28	TMP	A
Benzene	0.54J	J	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:28	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:28	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 14:28	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 14:28	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 14:28	TMP	A
Carbon Disulfide	0.40J	J	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:28	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:28	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 14:28	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 14:28	TMP	A
Chloroethane	ND	ND,6	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:28	TMP	A
Chloroform	8.0		ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 14:28	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:28	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:28	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:28	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:28	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:28	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 14:28	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 14:28	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 14:28	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 14:28	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 14:28	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:28	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 14:28	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 14:28	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:28	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:28	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 14:28	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:28	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 14:28	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 14:28	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:28	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:28	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:28	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 14:28	TMP	A

Results

Client Sample ID	MW-1	Collected	12/11/2024 09:10
Lab Sample ID	3391836005	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 – 133	12/18/2024 14:28	
4-Bromofluorobenzene	460-00-4	92%	79 – 114	12/18/2024 14:28	
Dibromofluoromethane	1868-53-7	104%	78 – 116	12/18/2024 14:28	
Toluene-d8	2037-26-5	103%	76 – 127	12/18/2024 14:28	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	132	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 17:52	KMV	I
Chloride	22.9		mg/L	2.0	0.88	SW846 9056A	2	12/12/2024 21:29	J1W	I
Nitrate-N	ND	ND	mg/L	1.0	0.32	SW846 9056A	2	12/12/2024 21:29	J1W	I
pH	9.97	4	pH_Units			S4500HB-11	1	12/17/2024 01:15	KMV	I
Specific Conductance	751		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	59.3		mg/L	2.0	1.4	SW846 9056A	2	12/12/2024 21:29	J1W	I
Total Dissolved Solids	334		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	1.0		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-4	Collected	12/11/2024 10:50
Lab Sample ID	3391836006	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:07	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:40	MSY	E1
Barium, Dissolved	0.45		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Barium, Total	0.62		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Calcium, Dissolved	290		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Calcium, Total	294		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Chromium, Dissolved	0.0058		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Chromium, Total	0.0027J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Copper, Total	0.0098J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Iron, Dissolved	19.4		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Iron, Total	24.9		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Magnesium, Dissolved	56.9		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Magnesium, Total	58.6		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Manganese, Dissolved	1.7		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Manganese, Total	1.8		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:22	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:12	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Potassium, Dissolved	15.6		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Potassium, Total	15.8		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Selenium, Dissolved	0.0091J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Sodium, Dissolved	154		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Sodium, Total	155		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:44	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:22	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:44	MSY	E1

Results

Client Sample ID	MW-4	Collected	12/11/2024 10:50
Lab Sample ID	3391836006	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 01:08	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 01:08	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 01:08	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:08	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 01:08	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 01:08	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 01:08	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 01:08	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 01:08	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 01:08	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 01:08	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:08	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 01:08	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 01:08	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D

Results

Client Sample ID	MW-4	Collected	12/11/2024 10:50
Lab Sample ID	3391836006	Lab Receipt	12/12/2024 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 01:08	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 01:08	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 01:08	M1O	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 01:08	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 01:08	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 01:08	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 01:08	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 01:08	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 01:08	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 01:08	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 01:08	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 01:08	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:08	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	80.3%	23 – 131	12/18/2024 01:08	
2-Fluorobiphenyl	321-60-8	70.7%	24 – 116	12/18/2024 01:08	
2-Fluorophenol	367-12-4	49.6%	10 – 85	12/18/2024 01:08	
Nitrobenzene-d5	4165-60-0	71.8%	32 – 125	12/18/2024 01:08	
Phenol-d5	4165-62-2	39.5%	7 – 56	12/18/2024 01:08	
Terphenyl-d14	98904-43-9	52.8%	41 – 145	12/18/2024 01:08	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 14:48	TMP	A

Results

Client Sample ID	MW-4	Collected	12/11/2024 10:50
Lab Sample ID	3391836006	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 14:48	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 14:48	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 14:48	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 14:48	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 14:48	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 14:48	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:48	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:48	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 14:48	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 14:48	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 14:48	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:48	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:48	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 14:48	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 14:48	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:48	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 14:48	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:48	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 14:48	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 14:48	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:48	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:48	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 14:48	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 14:48	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 14:48	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 14:48	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 14:48	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:48	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 14:48	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 14:48	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:48	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:48	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 14:48	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 14:48	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 14:48	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 14:48	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 14:48	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 14:48	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 14:48	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 14:48	TMP	A

Results

Client Sample ID	MW-4	Collected	12/11/2024 10:50
Lab Sample ID	3391836006	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.5%	62 – 133	12/18/2024 14:48	
4-Bromofluorobenzene	460-00-4	99.5%	79 – 114	12/18/2024 14:48	
Dibromofluoromethane	1868-53-7	96%	78 – 116	12/18/2024 14:48	
Toluene-d8	2037-26-5	103%	76 – 127	12/18/2024 14:48	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	81	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	721	3	mg/L	50	50	SM2320B-2011	10	12/18/2024 18:04	KMV	I
Chloride	336		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 21:40	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 21:40	J1W	I
pH	8.27	4	pH_Units			S4500HB-11	1	12/17/2024 01:26	KMV	I
Specific Conductance	204		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	151		mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 21:40	J1W	I
Total Dissolved Solids	1440		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	160		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-5S	Collected	12/11/2024 12:20
Lab Sample ID	3391836007	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:08	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:41	MSY	E1
Barium, Dissolved	0.037		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Barium, Total	0.039		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Calcium, Dissolved	257		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Calcium, Total	260		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Copper, Total	0.0040J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Iron, Dissolved	4.3		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Iron, Total	4.7		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Magnesium, Dissolved	29.5		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Magnesium, Total	30.4		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Manganese, Dissolved	0.79		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Manganese, Total	0.77		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:16	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:13	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Potassium, Dissolved	29.6		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Potassium, Total	33.0		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Selenium, Dissolved	0.0079J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Selenium, Total	0.013J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Sodium, Dissolved	61.9		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Sodium, Total	64.1		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:51	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:23	MSY	G1
Zinc, Total	0.070		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:51	MSY	E1

Results

Client Sample ID	MW-5S	Collected	12/11/2024 12:20
Lab Sample ID	3391836007	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 16:34	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 16:34	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 16:34	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 16:34	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 16:34	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 16:34	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 16:34	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 16:34	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 16:34	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 16:34	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 16:34	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 16:34	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 16:34	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 16:34	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D

Results

Client Sample ID	MW-5S	Collected	12/11/2024 12:20
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 16:34	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 16:34	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 16:34	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 16:34	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 16:34	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 16:34	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 16:34	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 16:34	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 16:34	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 16:34	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 16:34	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 16:34	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 16:34	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	104%	23 – 131	12/18/2024 16:34	
2-Fluorobiphenyl	321-60-8	90.1%	24 – 116	12/18/2024 16:34	
2-Fluorophenol	367-12-4	61%	10 – 85	12/18/2024 16:34	
Nitrobenzene-d5	4165-60-0	92.1%	32 – 125	12/18/2024 16:34	
Phenol-d5	4165-62-2	45.7%	7 – 56	12/18/2024 16:34	
Terphenyl-d14	98904-43-9	85.8%	41 – 145	12/18/2024 16:34	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/18/2024 15:08	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/18/2024 15:08	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 15:08	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/18/2024 15:08	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/18/2024 15:08	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/18/2024 15:08	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/18/2024 15:08	TMP	A
Benzene	0.41J	J	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 15:08	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 15:08	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/18/2024 15:08	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/18/2024 15:08	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/18/2024 15:08	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 15:08	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 15:08	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/18/2024 15:08	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 15:08	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 15:08	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/18/2024 15:08	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 15:08	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/18/2024 15:08	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/18/2024 15:08	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 15:08	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 15:08	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/18/2024 15:08	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 15:08	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/18/2024 15:08	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/18/2024 15:08	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 15:08	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 15:08	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/18/2024 15:08	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/18/2024 15:08	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 15:08	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 15:08	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/18/2024 15:08	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/18/2024 15:08	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/18/2024 15:08	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/18/2024 15:08	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/18/2024 15:08	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/18/2024 15:08	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/18/2024 15:08	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/18/2024 15:08	TMP	A

Results

Client Sample ID	MW-5S	Collected	12/11/2024 12:20
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/18/2024 15:08	
4-Bromofluorobenzene	460-00-4	93.8%	79 – 114	12/18/2024 15:08	
Dibromofluoromethane	1868-53-7	99.4%	78 – 116	12/18/2024 15:08	
Toluene-d8	2037-26-5	104%	76 – 127	12/18/2024 15:08	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	10	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	206	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 18:16	KMV	I
Chloride	60.9		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 21:52	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 21:52	J1W	I
pH	8.32	4	pH_Units			S4500HB-11	1	12/17/2024 01:41	KMV	I
Specific Conductance	1590		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	640		mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 14:07	J1W	I
Total Dissolved Solids	1210		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	55		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-18	Collected	12/11/2024 09:55
Lab Sample ID	3391836008	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Aluminum, Total	0.078J	J	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/03/2025 11:09	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Arsenic, Dissolved	0.025		mg/L	0.0090	0.0030	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Arsenic, Total	0.029		mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:50	MSY	E1
Barium, Dissolved	0.26		mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Barium, Total	0.27		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Calcium, Dissolved	225		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Calcium, Total	226		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Chromium, Total	0.0028J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Iron, Dissolved	16.2		mg/L	0.067	0.022	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Iron, Total	17.2		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Magnesium, Dissolved	35.8		mg/L	0.11	0.036	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Magnesium, Total	36.6		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Manganese, Dissolved	1.4		mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Manganese, Total	1.4		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:25	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:18	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Potassium, Dissolved	9.7		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Potassium, Total	10		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Sodium, Dissolved	57.7		mg/L	0.56	0.18	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Sodium, Total	58.7		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:52	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 15:24	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:52	MSY	E1

Results

Client Sample ID	MW-18	Collected	12/11/2024 09:55
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 00:44	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 00:44	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 00:44	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 00:44	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 00:44	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 00:44	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 00:44	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 00:44	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 00:44	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 00:44	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 00:44	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 00:44	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 00:44	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 00:44	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 00:44	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 00:44	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 00:44	M1O	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 00:44	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 00:44	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 00:44	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 00:44	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 00:44	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 00:44	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 00:44	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 00:44	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 00:44	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 00:44	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	77.2%	23 – 131	12/18/2024 00:44	
2-Fluorobiphenyl	321-60-8	76.7%	24 – 116	12/18/2024 00:44	
2-Fluorophenol	367-12-4	49.9%	10 – 85	12/18/2024 00:44	
Nitrobenzene-d5	4165-60-0	80.9%	32 – 125	12/18/2024 00:44	
Phenol-d5	4165-62-2	42.7%	7 – 56	12/18/2024 00:44	
Terphenyl-d14	98904-43-9	68.2%	41 – 145	12/18/2024 00:44	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/19/2024 14:41	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 14:41	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 14:41	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/19/2024 14:41	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/19/2024 14:41	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/19/2024 14:41	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/19/2024 14:41	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 14:41	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 14:41	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 14:41	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/19/2024 14:41	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/19/2024 14:41	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 14:41	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 14:41	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/19/2024 14:41	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 14:41	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 14:41	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/19/2024 14:41	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 14:41	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 14:41	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 14:41	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 14:41	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 14:41	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 14:41	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 14:41	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 14:41	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/19/2024 14:41	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 14:41	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 14:41	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 14:41	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/19/2024 14:41	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 14:41	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 14:41	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/19/2024 14:41	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 14:41	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/19/2024 14:41	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 14:41	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 14:41	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 14:41	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 14:41	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 14:41	TMP	A

Results

Client Sample ID	MW-18	Collected	12/11/2024 09:55
Lab Sample ID	3391836008	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/19/2024 14:41	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	12/19/2024 14:41	
Dibromofluoromethane	1868-53-7	96.3%	78 – 116	12/19/2024 14:41	
Toluene-d8	2037-26-5	101%	76 – 127	12/19/2024 14:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	36	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	402	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 19:19	KMV	I
Chloride	102		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 22:03	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 22:03	J1W	I
pH	8.35	4	pH_Units			S4500HB-11	1	12/17/2024 01:58	KMV	I
Specific Conductance	1420		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	282		mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 22:03	J1W	I
Total Dissolved Solids	992		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	180		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-3	Collected	12/11/2024 11:25
Lab Sample ID	3391836009	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Arsenic, Total	0.0064J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:51	MSY	E1
Barium, Dissolved	0.10		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Barium, Total	0.10		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Calcium, Dissolved	206		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Calcium, Total	213		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Chromium, Dissolved	0.0022J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Chromium, Total	0.0053J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Iron, Dissolved	9.5		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Iron, Total	9.9		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Magnesium, Dissolved	33.4		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Magnesium, Total	34.1		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Manganese, Dissolved	0.29		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Manganese, Total	0.29		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:26	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:04	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Potassium, Dissolved	14.2		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Potassium, Total	14.4		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Sodium, Dissolved	64.6		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Sodium, Total	66.0		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:53	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:48	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:53	MSY	E1

Results

Client Sample ID	MW-3	Collected	12/11/2024 11:25
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 01:57	M1O	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 01:57	M1O	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 01:57	M1O	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:57	M1O	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 01:57	M1O	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 01:57	M1O	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 01:57	M1O	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 01:57	M1O	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 01:57	M1O	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 01:57	M1O	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 01:57	M1O	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 01:57	M1O	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 01:57	M1O	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 01:57	M1O	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D

Results

Client Sample ID	MW-3	Collected	12/11/2024 11:25
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 01:57	M1O	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 01:57	M1O	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 01:57	M1O	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 01:57	M1O	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 01:57	M1O	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 01:57	M1O	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 01:57	M1O	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 01:57	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 01:57	M1O	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 01:57	M1O	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 01:57	M1O	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 01:57	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 01:57	M1O	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	66.5%	23 – 131	12/18/2024 01:57	
2-Fluorobiphenyl	321-60-8	64%	24 – 116	12/18/2024 01:57	
2-Fluorophenol	367-12-4	43.1%	10 – 85	12/18/2024 01:57	
Nitrobenzene-d5	4165-60-0	67.1%	32 – 125	12/18/2024 01:57	
Phenol-d5	4165-62-2	34.6%	7 – 56	12/18/2024 01:57	
Terphenyl-d14	98904-43-9	59.7%	41 – 145	12/18/2024 01:57	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/19/2024 15:01	TMP	A

Results

Client Sample ID	MW-3	Collected	12/11/2024 11:25
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 15:01	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 15:01	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/19/2024 15:01	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/19/2024 15:01	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/19/2024 15:01	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/19/2024 15:01	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:01	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:01	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 15:01	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/19/2024 15:01	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/19/2024 15:01	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:01	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:01	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/19/2024 15:01	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 15:01	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:01	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/19/2024 15:01	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:01	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:01	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:01	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:01	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:01	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 15:01	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 15:01	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 15:01	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/19/2024 15:01	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 15:01	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:01	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 15:01	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/19/2024 15:01	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:01	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:01	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/19/2024 15:01	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:01	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/19/2024 15:01	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 15:01	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:01	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:01	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:01	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 15:01	TMP	A

Results

Client Sample ID	MW-3	Collected	12/11/2024 11:25
Lab Sample ID	3391836009	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	12/19/2024 15:01	
4-Bromofluorobenzene	460-00-4	95.1%	79 – 114	12/19/2024 15:01	
Dibromofluoromethane	1868-53-7	103%	78 – 116	12/19/2024 15:01	
Toluene-d8	2037-26-5	105%	76 – 127	12/19/2024 15:01	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	14	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	268	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 19:31	KMV	I
Chloride	89.6		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 22:15	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 22:15	J1W	I
pH	8.35	4	pH_Units			S4500HB-11	1	12/17/2024 02:14	KMV	I
Specific Conductance	1400		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	418		mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 22:15	J1W	I
Total Dissolved Solids	1020		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	100		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-7	Collected	12/11/2024 13:15
Lab Sample ID	3391836010	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Arsenic, Dissolved	0.0066J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Arsenic, Total	0.011		mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:53	MSY	E1
Barium, Dissolved	0.050		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Barium, Total	0.051		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Calcium, Dissolved	206		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Calcium, Total	211		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Cobalt, Total	0.0036J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Iron, Dissolved	2.8		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Iron, Total	3.2		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Magnesium, Dissolved	36.2		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Magnesium, Total	36.5		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Manganese, Dissolved	0.34		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Manganese, Total	0.34		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:24	AJN	G2
Mercury, Total	ND	ND,7	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:19	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Potassium, Dissolved	8.7		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Potassium, Total	8.7		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Selenium, Dissolved	0.021J	J	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Selenium, Total	0.0093J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 09:53	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Sodium, Dissolved	39.9		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Sodium, Total	40.2		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:55	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:49	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:55	MSY	E1

Results

Client Sample ID	MW-7	Collected	12/11/2024 13:15
Lab Sample ID	3391836010	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 17:22	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 17:22	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 17:22	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 17:22	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 17:22	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 17:22	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 17:22	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 17:22	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 17:22	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 17:22	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 17:22	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 17:22	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 17:22	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 17:22	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D

Results

Client Sample ID	MW-7	Collected	12/11/2024 13:15
Lab Sample ID	3391836010	Lab Receipt	12/12/2024 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 17:22	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 17:22	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 17:22	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 17:22	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 17:22	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 17:22	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 17:22	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 17:22	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 17:22	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 17:22	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 17:22	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 17:22	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:22	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	83.8%	23 – 131	12/18/2024 17:22	
2-Fluorobiphenyl	321-60-8	71.9%	24 – 116	12/18/2024 17:22	
2-Fluorophenol	367-12-4	42.9%	10 – 85	12/18/2024 17:22	
Nitrobenzene-d5	4165-60-0	64.3%	32 – 125	12/18/2024 17:22	
Phenol-d5	4165-62-2	34.1%	7 – 56	12/18/2024 17:22	
Terphenyl-d14	98904-43-9	61.6%	41 – 145	12/18/2024 17:22	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/19/2024 15:21	TMP	A

Results

Client Sample ID	MW-7	Collected	12/11/2024 13:15
Lab Sample ID	3391836010	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 15:21	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 15:21	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/19/2024 15:21	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/19/2024 15:21	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/19/2024 15:21	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/19/2024 15:21	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:21	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:21	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 15:21	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/19/2024 15:21	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/19/2024 15:21	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:21	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:21	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/19/2024 15:21	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 15:21	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:21	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/19/2024 15:21	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:21	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:21	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:21	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:21	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:21	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 15:21	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 15:21	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 15:21	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/19/2024 15:21	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 15:21	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:21	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 15:21	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/19/2024 15:21	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:21	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:21	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/19/2024 15:21	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:21	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/19/2024 15:21	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 15:21	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:21	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:21	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:21	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 15:21	TMP	A

Results

Client Sample ID	MW-7	Collected	12/11/2024 13:15
Lab Sample ID	3391836010	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/19/2024 15:21	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	12/19/2024 15:21	
Dibromofluoromethane	1868-53-7	96.2%	78 – 116	12/19/2024 15:21	
Toluene-d8	2037-26-5	102%	76 – 127	12/19/2024 15:21	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	22	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	321	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 19:44	KMV	I
Chloride	72.1		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 22:26	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 22:26	J1W	I
pH	8.32	4	pH_Units			S4500HB-11	1	12/17/2024 02:29	KMV	I
Specific Conductance	1280		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	317		mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 22:26	J1W	I
Total Dissolved Solids	928		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	35		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-21	Collected	12/11/2024 13:15
Lab Sample ID	3391836011	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:54	MSY	E1
Barium, Dissolved	0.041		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Barium, Total	0.041		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Calcium, Dissolved	222		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Calcium, Total	229		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Chromium, Dissolved	0.0024J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Copper, Total	0.0040J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Iron, Dissolved	0.11		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Iron, Total	0.13		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Magnesium, Dissolved	7.4		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Magnesium, Total	7.7		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Manganese, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Manganese, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:12	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:45	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Potassium, Dissolved	8.8		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Potassium, Total	8.9		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Selenium, Dissolved	0.0097J	J	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Selenium, Total	0.018J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Sodium, Dissolved	135		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Sodium, Total	138		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:56	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:50	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:56	MSY	E1

Results

Client Sample ID	MW-21	Collected	12/11/2024 13:15
Lab Sample ID	3391836011	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,4-Dimethylphenol	1.9J	J	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 17:47	CGS	D
2-Methylnaphthalene	2.1		ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 17:47	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 17:47	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 17:47	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 17:47	CGS	D
Acenaphthene	0.51J	J	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Acenaphthylene	0.75J	J	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 17:47	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 17:47	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 17:47	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 17:47	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 17:47	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 17:47	CGS	D
Biphenyl	0.45J	J	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 17:47	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 17:47	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 17:47	CGS	D
Carbazole	2.6J	J	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D

Results

Client Sample ID	MW-21	Collected	12/11/2024 13:15
Lab Sample ID	3391836011	Lab Receipt	12/12/2024 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 17:47	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 17:47	CGS	D
Dibenzofuran	0.39J	J	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 17:47	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Fluorene	0.37J	J	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 17:47	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 17:47	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 17:47	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 17:47	CGS	D
mp-Cresol	11.3		ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
Naphthalene	46.2		ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 17:47	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 17:47	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 17:47	CGS	D
o-Cresol	6.6		ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 17:47	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D
Phenol	16.9		ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 17:47	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 17:47	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	93.4%	23 – 131	12/18/2024 17:47	
2-Fluorobiphenyl	321-60-8	82.9%	24 – 116	12/18/2024 17:47	
2-Fluorophenol	367-12-4	55.7%	10 – 85	12/18/2024 17:47	
Nitrobenzene-d5	4165-60-0	80.6%	32 – 125	12/18/2024 17:47	
Phenol-d5	4165-62-2	43.2%	7 – 56	12/18/2024 17:47	
Terphenyl-d14	98904-43-9	77.2%	41 – 145	12/18/2024 17:47	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	10.0	4.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	10.0	3.0	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	10.0	4.1	SW846 8260D	5	12/19/2024 16:21	TMP	A

Results

Client Sample ID	MW-21	Collected	12/11/2024 13:15
Lab Sample ID	3391836011	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	35.0	7.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	5.0	1.9	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	5.0	1.0	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:21	TMP	A
2-Butanone	ND	ND	ug/L	50.0	9.0	SW846 8260D	5	12/19/2024 16:21	TMP	A
2-Hexanone	ND	ND	ug/L	25.0	6.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	25.0	7.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
Acetone	ND	ND	ug/L	50.0	15.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
Benzene	13.7		ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:21	TMP	A
Bromochloromethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
Bromodichloromethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:21	TMP	A
Bromoform	ND	ND	ug/L	5.0	2.0	SW846 8260D	5	12/19/2024 16:21	TMP	A
Bromomethane	ND	ND	ug/L	5.0	2.0	SW846 8260D	5	12/19/2024 16:21	TMP	A
Carbon Disulfide	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:21	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
Chlorobenzene	ND	ND	ug/L	5.0	0.95	SW846 8260D	5	12/19/2024 16:21	TMP	A
Chlorodibromomethane	ND	ND	ug/L	5.0	2.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
Chloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
Chloroform	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/19/2024 16:21	TMP	A
Chloromethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
Cyclohexane	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
Ethylbenzene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
Freon 113	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
Isopropylbenzene	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/19/2024 16:21	TMP	A
Methyl acetate	ND	ND	ug/L	10.0	1.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
Methyl cyclohexane	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
Methylene Chloride	ND	ND	ug/L	5.0	2.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
mp-Xylene	ND	ND	ug/L	10.0	2.6	SW846 8260D	5	12/19/2024 16:21	TMP	A
o-Xylene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
Styrene	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:21	TMP	A
Tetrachloroethene	ND	ND	ug/L	5.0	1.8	SW846 8260D	5	12/19/2024 16:21	TMP	A
Toluene	1.4J	J	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:21	TMP	A
Total Xylenes	ND	ND	ug/L	15.0	3.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:21	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:21	TMP	A
Trichloroethene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:21	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:21	TMP	A
Vinyl Chloride	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:21	TMP	A

Results

Client Sample ID	MW-21	Collected	12/11/2024 13:15
Lab Sample ID	3391836011	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/19/2024 16:21	
4-Bromofluorobenzene	460-00-4	97.6%	79 – 114	12/19/2024 16:21	
Dibromofluoromethane	1868-53-7	96.9%	78 – 116	12/19/2024 16:21	
Toluene-d8	2037-26-5	100%	76 – 127	12/19/2024 16:21	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	67	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 19:55	KMV	I
Chloride	194		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 22:38	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 22:38	J1W	I
pH	9.29	4	pH_Units			S4500HB-11	1	12/17/2024 02:41	KMV	I
Specific Conductance	1640		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	570		mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 14:18	J1W	I
Total Dissolved Solids	1180		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	3.1		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-5D	Collected	12/11/2024 15:40
Lab Sample ID	3391836012	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:55	MSY	E1
Barium, Dissolved	0.048		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Barium, Total	0.049		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Calcium, Dissolved	341	8	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Calcium, Total	351		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Chromium, Dissolved	0.0024J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Copper, Dissolved	0.0039J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Copper, Total	0.0053J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Iron, Dissolved	13.1		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Iron, Total	13.4		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Magnesium, Dissolved	45.7	9	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Magnesium, Total	45.7		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Manganese, Dissolved	0.81		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Manganese, Total	0.83		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:21	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:51	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Potassium, Dissolved	16.1		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Potassium, Total	16.4		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Selenium, Total	0.010J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Sodium, Dissolved	78.1		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Sodium, Total	78.5		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:57	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:51	MSY	G3
Zinc, Total	0.13		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:57	MSY	E1

Results

Client Sample ID	MW-5D	Collected	12/11/2024 15:40
Lab Sample ID	3391836012	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 18:36	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 18:36	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 18:36	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 18:36	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 18:36	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 18:36	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 18:36	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 18:36	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 18:36	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 18:36	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 18:36	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 18:36	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 18:36	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 18:36	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D

Results

Client Sample ID	MW-5D	Collected	12/11/2024 15:40
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 18:36	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 18:36	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 18:36	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 18:36	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 18:36	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 18:36	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 18:36	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 18:36	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 18:36	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 18:36	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 18:36	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 18:36	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:36	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	87.6%	23 – 131	12/18/2024 18:36	
2-Fluorobiphenyl	321-60-8	87.2%	24 – 116	12/18/2024 18:36	
2-Fluorophenol	367-12-4	58.2%	10 – 85	12/18/2024 18:36	
Nitrobenzene-d5	4165-60-0	86.7%	32 – 125	12/18/2024 18:36	
Phenol-d5	4165-62-2	46.5%	7 – 56	12/18/2024 18:36	
Terphenyl-d14	98904-43-9	73.6%	41 – 145	12/18/2024 18:36	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/19/2024 15:41	TMP	A

Results

Client Sample ID	MW-5D	Collected	12/11/2024 15:40
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 15:41	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 15:41	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/19/2024 15:41	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/19/2024 15:41	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/19/2024 15:41	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/19/2024 15:41	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:41	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:41	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 15:41	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/19/2024 15:41	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/19/2024 15:41	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:41	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:41	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/19/2024 15:41	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 15:41	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:41	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/19/2024 15:41	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:41	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 15:41	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 15:41	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:41	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:41	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 15:41	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 15:41	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 15:41	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/19/2024 15:41	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 15:41	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:41	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 15:41	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/19/2024 15:41	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:41	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:41	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/19/2024 15:41	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 15:41	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/19/2024 15:41	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 15:41	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 15:41	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 15:41	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 15:41	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 15:41	TMP	A

Results

Client Sample ID	MW-5D	Collected	12/11/2024 15:40
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	12/19/2024 15:41	
4-Bromofluorobenzene	460-00-4	91.4%	79 – 114	12/19/2024 15:41	
Dibromofluoromethane	1868-53-7	99.8%	78 – 116	12/19/2024 15:41	
Toluene-d8	2037-26-5	104%	76 – 127	12/19/2024 15:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	20	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	185	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 15:47	KMV	I
Chloride	125		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 22:49	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 22:49	J1W	I
pH	8.27	4	pH_Units			S4500HB-11	1	12/17/2024 02:52	KMV	I
Specific Conductance	2040		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	882		mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 14:30	J1W	I
Total Dissolved Solids	1640		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	130		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-23	Collected	12/11/2024 15:25
Lab Sample ID	3391836013	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Antimony, Dissolved	0.014J	J	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:56	MSY	E1
Barium, Dissolved	0.063		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Barium, Total	0.064		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Calcium, Dissolved	186		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Calcium, Total	197		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Chromium, Dissolved	0.0022J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Chromium, Total	0.0024J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Copper, Dissolved	0.0038J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Copper, Total	0.0060J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Iron, Dissolved	0.22		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Iron, Total	0.22		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Magnesium, Dissolved	51.0		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Magnesium, Total	52.2		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Manganese, Dissolved	0.035		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Manganese, Total	0.036		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:22	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:49	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Potassium, Dissolved	6.8		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Potassium, Total	7.0		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Selenium, Dissolved	0.12		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Selenium, Total	0.13		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Sodium, Dissolved	81.2		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Sodium, Total	82.2		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:58	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 09:56	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:58	MSY	E1

Results

Client Sample ID	MW-23	Collected	12/11/2024 15:25
Lab Sample ID	3391836013	Lab Receipt	12/12/2024 09:04

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 18:12	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 18:12	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 18:12	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 18:12	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 18:12	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 18:12	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 18:12	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 18:12	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 18:12	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 18:12	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 18:12	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 18:12	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 18:12	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 18:12	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 18:12	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 18:12	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 18:12	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 18:12	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 18:12	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 18:12	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 18:12	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 18:12	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 18:12	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 18:12	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 18:12	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 18:12	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 18:12	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	80.2%	23 – 131	12/18/2024 18:12	
2-Fluorobiphenyl	321-60-8	77.5%	24 – 116	12/18/2024 18:12	
2-Fluorophenol	367-12-4	48.6%	10 – 85	12/18/2024 18:12	
Nitrobenzene-d5	4165-60-0	73.7%	32 – 125	12/18/2024 18:12	
Phenol-d5	4165-62-2	39.7%	7 – 56	12/18/2024 18:12	
Terphenyl-d14	98904-43-9	58.7%	41 – 145	12/18/2024 18:12	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	10.0	4.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	10.0	3.0	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	10.0	4.1	SW846 8260D	5	12/19/2024 16:41	TMP	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	35.0	7.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	5.0	1.9	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	5.0	1.0	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:41	TMP	A
2-Butanone	ND	ND	ug/L	50.0	9.0	SW846 8260D	5	12/19/2024 16:41	TMP	A
2-Hexanone	ND	ND	ug/L	25.0	6.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	25.0	7.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
Acetone	ND	ND	ug/L	50.0	15.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
Benzene	21.6		ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:41	TMP	A
Bromochloromethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
Bromodichloromethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/19/2024 16:41	TMP	A
Bromoform	ND	ND	ug/L	5.0	2.0	SW846 8260D	5	12/19/2024 16:41	TMP	A
Bromomethane	ND	ND	ug/L	5.0	2.0	SW846 8260D	5	12/19/2024 16:41	TMP	A
Carbon Disulfide	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:41	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
Chlorobenzene	ND	ND	ug/L	5.0	0.95	SW846 8260D	5	12/19/2024 16:41	TMP	A
Chlorodibromomethane	ND	ND	ug/L	5.0	2.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
Chloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
Chloroform	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/19/2024 16:41	TMP	A
Chloromethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
Cyclohexane	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
Ethylbenzene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
Freon 113	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
Isopropylbenzene	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/19/2024 16:41	TMP	A
Methyl acetate	ND	ND	ug/L	10.0	1.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
Methyl cyclohexane	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
Methylene Chloride	ND	ND	ug/L	5.0	2.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
mp-Xylene	ND	ND	ug/L	10.0	2.6	SW846 8260D	5	12/19/2024 16:41	TMP	A
o-Xylene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
Styrene	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:41	TMP	A
Tetrachloroethene	ND	ND	ug/L	5.0	1.8	SW846 8260D	5	12/19/2024 16:41	TMP	A
Toluene	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:41	TMP	A
Total Xylenes	ND	ND	ug/L	15.0	3.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/19/2024 16:41	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:41	TMP	A
Trichloroethene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/19/2024 16:41	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/19/2024 16:41	TMP	A
Vinyl Chloride	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/19/2024 16:41	TMP	A

Results

Client Sample ID	MW-23	Collected	12/11/2024 15:25
Lab Sample ID	3391836013	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/19/2024 16:41	
4-Bromofluorobenzene	460-00-4	90%	79 – 114	12/19/2024 16:41	
Dibromofluoromethane	1868-53-7	99%	78 – 116	12/19/2024 16:41	
Toluene-d8	2037-26-5	99.6%	76 – 127	12/19/2024 16:41	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	19	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	325	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 20:08	KMV	I
Chloride	63.2		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 23:01	J1W	I
Nitrate-N	37.9		mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 23:01	J1W	I
pH	8.42	4	pH_Units			S4500HB-11	1	12/17/2024 03:40	KMV	I
Specific Conductance	1530		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	299		mg/L	5.0	3.5	SW846 9056A	5	12/12/2024 23:01	J1W	I
Total Dissolved Solids	1070		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	1.5		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	MW-38D	Collected	12/11/2024 16:30
Lab Sample ID	3391836014	Lab Receipt	12/12/2024 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 09:57	MSY	E1
Barium, Dissolved	0.020		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Barium, Total	0.020		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Calcium, Dissolved	329		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Calcium, Total	337		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Chromium, Dissolved	0.0047J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Chromium, Total	0.0042J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Copper, Dissolved	0.0068J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Copper, Total	0.014		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Iron, Dissolved	3.3		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Iron, Total	3.3		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Magnesium, Dissolved	76.6		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Magnesium, Total	77.1		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Manganese, Dissolved	0.35		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Manganese, Total	0.33		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 11:20	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/16/2024 10:46	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Potassium, Dissolved	3.2		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Potassium, Total	3.2		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Selenium, Dissolved	0.21		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Selenium, Total	0.21		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Sodium, Dissolved	17.9		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Sodium, Total	17.9		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 10:59	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:02	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 10:59	MSY	E1

Results

Client Sample ID	MW-38D	Collected	12/11/2024 16:30
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/18/2024 19:01	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/18/2024 19:01	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/18/2024 19:01	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 19:01	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/18/2024 19:01	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/18/2024 19:01	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/18/2024 19:01	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 19:01	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/18/2024 19:01	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/18/2024 19:01	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/18/2024 19:01	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/18/2024 19:01	CGS	D
Butylbenzylphthalate	ND	ND,5	ug/L	3.0	0.31	SW846 8270E	1	12/18/2024 19:01	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/18/2024 19:01	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D

Results

Client Sample ID	MW-38D	Collected	12/11/2024 16:30
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/18/2024 19:01	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/18/2024 19:01	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 19:01	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/18/2024 19:01	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/18/2024 19:01	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/18/2024 19:01	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/18/2024 19:01	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/18/2024 19:01	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/18/2024 19:01	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/18/2024 19:01	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/18/2024 19:01	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/18/2024 19:01	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/18/2024 19:01	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	82.8%	23 – 131	12/18/2024 19:01	
2-Fluorobiphenyl	321-60-8	78.9%	24 – 116	12/18/2024 19:01	
2-Fluorophenol	367-12-4	53.3%	10 – 85	12/18/2024 19:01	
Nitrobenzene-d5	4165-60-0	79.8%	32 – 125	12/18/2024 19:01	
Phenol-d5	4165-62-2	41.9%	7 – 56	12/18/2024 19:01	
Terphenyl-d14	98904-43-9	65.5%	41 – 145	12/18/2024 19:01	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/19/2024 16:01	TMP	A

Results

Client Sample ID	MW-38D	Collected	12/11/2024 16:30
Lab Sample ID	3391836014	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 16:01	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 16:01	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/19/2024 16:01	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/19/2024 16:01	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/19/2024 16:01	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/19/2024 16:01	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 16:01	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 16:01	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 16:01	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/19/2024 16:01	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/19/2024 16:01	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 16:01	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 16:01	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/19/2024 16:01	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 16:01	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 16:01	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/19/2024 16:01	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 16:01	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 16:01	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 16:01	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 16:01	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 16:01	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 16:01	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 16:01	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 16:01	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/19/2024 16:01	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 16:01	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 16:01	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 16:01	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/19/2024 16:01	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 16:01	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 16:01	TMP	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/19/2024 16:01	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 16:01	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/19/2024 16:01	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 16:01	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 16:01	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 16:01	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 16:01	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 16:01	TMP	A

Results

Client Sample ID	MW-38D	Collected	12/11/2024 16:30
Lab Sample ID	3391836014	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/19/2024 16:01	
4-Bromofluorobenzene	460-00-4	99.7%	79 – 114	12/19/2024 16:01	
Dibromofluoromethane	1868-53-7	95.2%	78 – 116	12/19/2024 16:01	
Toluene-d8	2037-26-5	99.4%	76 – 127	12/19/2024 16:01	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	40	2	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	382	3	mg/L	5	5	SM2320B-2011	1	12/18/2024 20:21	KMV	I
Chloride	9.4		mg/L	5.0	2.2	SW846 9056A	5	12/12/2024 23:46	J1W	I
Nitrate-N	39.8		mg/L	2.5	0.80	SW846 9056A	5	12/12/2024 23:46	J1W	I
pH	8.28	4	pH_Units			S4500HB-11	1	12/17/2024 03:57	KMV	I
Specific Conductance	1870		umhos/cm	5	0.1	SW846 9050A	1	12/23/2024 14:00	E1R	I
Sulfate	601	11,12	mg/L	10.0	7.0	SW846 9056A	10	12/14/2024 14:41	J1W	I
Total Dissolved Solids	1510		mg/L	25	25	SM2540C-15	1	12/13/2024 16:00	RAG	I
Turbidity	1.1		NTU	0.30	0.30	SM2130B-2011	1	12/12/2024 12:12	NPF	I

Results

Client Sample ID	TB-42	Collected	12/11/2024 00:00
Lab Sample ID	3391836015	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/19/2024 11:42	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 11:42	TMP	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/19/2024 11:42	TMP	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/19/2024 11:42	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/19/2024 11:42	TMP	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/19/2024 11:42	TMP	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 11:42	TMP	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 11:42	TMP	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/19/2024 11:42	TMP	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/19/2024 11:42	TMP	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/19/2024 11:42	TMP	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 11:42	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 11:42	TMP	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/19/2024 11:42	TMP	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 11:42	TMP	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 11:42	TMP	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/19/2024 11:42	TMP	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 11:42	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/19/2024 11:42	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/19/2024 11:42	TMP	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 11:42	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 11:42	TMP	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/19/2024 11:42	TMP	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 11:42	TMP	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/19/2024 11:42	TMP	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/19/2024 11:42	TMP	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 11:42	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 11:42	TMP	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/19/2024 11:42	TMP	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/19/2024 11:42	TMP	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 11:42	TMP	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 11:42	TMP	A

Results

Client Sample ID	TB-42	Collected	12/11/2024 00:00
Lab Sample ID	3391836015	Lab Receipt	12/12/2024 09:04

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/19/2024 11:42	TMP	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/19/2024 11:42	TMP	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/19/2024 11:42	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/19/2024 11:42	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/19/2024 11:42	TMP	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/19/2024 11:42	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/19/2024 11:42	TMP	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/19/2024 11:42	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98%	62 – 133	12/19/2024 11:42	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	12/19/2024 11:42	
Dibromofluoromethane	1868-53-7	94.4%	78 – 116	12/19/2024 11:42	
Toluene-d8	2037-26-5	96.5%	76 – 127	12/19/2024 11:42	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391836001	MW-25	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391836002	MW-24	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391836003	MW-24-DUP	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391836004	MW-20	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391836005	MW-1	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391836006	MW-4	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391836007	MW-5S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391836008	MW-18	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391836009	MW-3	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391836010	MW-7	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391836011	MW-21	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391836012	MW-5D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3391836013	MW-23	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3391836014	MW-38D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3391836015	TB-42	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1355095	Prep Method	SW846 3015A
Date	12/13/2024 09:38	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008

Matrix Spike 3917544 (MS) 3391582002 (non-Project Sample) For QC Batch 1355095

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917545 (MSD) 3391582002 (non-Project Sample) For QC Batch 1355095

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.2	0	1.10	105	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.2	0	1.10	106	75 - 125	RPD 0.63 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.14	0	0.22	62.6*	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.15	0	0.22	65.3*	75 - 125	RPD 4.30 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.17	0.0540	0.11	106	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.17	0.0540	0.11	104	75 - 125	RPD 1.89 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0870	1.10	103	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.2	0.0870	1.10	104	75 - 125	RPD 0.44 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.24	0.000330	0.22	106	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.24	0.000330	0.22	106	75 - 125	RPD 0.57 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000330	0.11	101	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000330	0.11	101	75 - 125	RPD 0.59 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	164	163	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	164	163	1.10	NC	75 - 125	RPD 0.41 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.12	0.0016	0.11	104	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0016	0.11	104	75 - 125	RPD 0.66 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	101	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	102	75 - 125	RPD 0.75 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.1	0	1.10	103	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0	1.10	104	75 - 125	RPD 0.65 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	10.7	9.50	1.10	NC	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	10.7	9.50	1.10	NC	75 - 125	RPD 0.09 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.11	0	0.11	99.8	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.11	0	0.11	101	75 - 125	RPD 1.59 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	72.2	70.80	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	71.9	70.80	1.10	NC	75 - 125	RPD 0.39 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	1	0.91	0.11	NC	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	1	0.91	0.11	NC	75 - 125	RPD 0.20 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0	1.10	99.5	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0	1.10	100	75 - 125	RPD 0.68 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	38.1	14.70	22.20	105	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	38.4	14.70	22.20	107	75 - 125	RPD 0.67 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.2	0.0110	1.10	106	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.2	0.0110	1.10	107	75 - 125	RPD 1.57 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.13	0	0.11	113	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Silver, Dissolved	7440-22-4_D	MSD	0.13	0	0.11	114	75 - 125	RPD 1.06 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	90.2	67.20	22.20	104	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	90.4	67.20	22.20	104	75 - 125	RPD 0.16 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.11	0	0.11	97.8	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.11	0	0.11	98	75 - 125	RPD 0.20 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.053	0	0.0560	95.8	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.054	0	0.0560	97.2	75 - 125	RPD 1.45 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.53	0	0.56	94.7	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.53	0	0.56	95.1	75 - 125	RPD 0.44 (Max-20)	

Method Blank 3917542 (MB) Created on 12/13/2024 06:15 For QC Batch 1355095

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3917543 (LCS) Created on 12/13/2024 06:15 For QC Batch 1355095

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.1		1.10	103	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.19		0.22	85	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.11		0.11	99.7	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	106	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.24		0.22	106	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	105	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.1		1.10	95.7	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	106	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	106	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	102	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	105	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	105	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	107	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	113	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	105	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	22.6		22.20	102	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	109	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.4		22.20	105	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	97.1	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.053		0.0560	96	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.57		0.56	103	80 - 120		

QC Batch

QC Batch	1355096	Prep Method	SW846 3015A
Date	12/13/2024 13:28	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Matrix Spike 3917797 (MS) 3391602003 (non-Project Sample) For QC Batch 1355096

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917798 (MSD) 3391602003 (non-Project Sample) For QC Batch 1355096

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	MS	1.2	0.0150	1.10	105	75 - 125		
Aluminum, Total	7429-90-5	MSD	1.2	0.0150	1.10	105	75 - 125	RPD 0.07 (Max-20)	
Copper, Total	7440-50-8	MS	1.1	0.000670	1.10	103	75 - 125		
Copper, Total	7440-50-8	MSD	1.2	0.000670	1.10	104	75 - 125	RPD 1.07 (Max-20)	
Iron, Total	7439-89-6	MS	1.2	0.0260	1.10	105	75 - 125		
Iron, Total	7439-89-6	MSD	1.2	0.0260	1.10	106	75 - 125	RPD 0.84 (Max-20)	
Lead, Total	7439-92-1	MS	0.12	0.000670	0.11	108	75 - 125		
Lead, Total	7439-92-1	MSD	0.12	0.000670	0.11	111	75 - 125	RPD 2.45 (Max-20)	
Zinc, Total	7440-66-6	MS	0.76	0.16	0.56	107	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Zinc, Total	7440-66-6	MSD	0.77	0.16	0.56	108	75 - 125	RPD 1.23 (Max-20)	

Method Blank 3917546 (MB) Created on 12/13/2024 06:17 For QC Batch 1355096

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	0.0053J	mg/L	0.0090	J
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	0.010J	mg/L	0.022	J
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3917547 (LCS) Created on 12/13/2024 06:17 For QC Batch 1355096

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	108	80 - 120		
Antimony, Total	7440-36-0	LCS	0.24		0.22	108	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	105	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	112	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.25		0.22	112	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	111	80 - 120		
Calcium, Total	7440-70-2	LCS	1.2		1.10	107	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	111	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	108	80 - 120		
Copper, Total	7440-50-8	LCS	1.2		1.10	105	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Iron, Total	7439-89-6	LCS	1.2		1.10	108	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	111	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	112	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	109	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	109	80 - 120		
Potassium, Total	7440-09-7	LCS	23.6		22.20	106	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	111	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	110	80 - 120		
Sodium, Total	7440-23-5	LCS	24.2		22.20	109	80 - 120		
Thallium, Total	7440-28-0	LCS	0.11		0.11	97.2	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.062		0.0560	112	80 - 120		
Zinc, Total	7440-66-6	LCS	0.6		0.56	108	80 - 120		

QC Batch

QC Batch	1356093	Prep Method	SW846 7470A
Date	12/16/2024 07:57	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391836011 3391836012 3391836013 3391836014

Matrix Spike 3918431 (MS) 3391582007 (non-Project Sample) For QC Batch 1356093

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918432 (MSD) 3391582007 (non-Project Sample) For QC Batch 1356093

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0058	0.000080	0.0050	114	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0056	0.000080	0.0050	110	70 - 130	RPD 3 (Max-20)	

Method Blank 3918427 (MB) Created on 12/16/2024 06:08 For QC Batch 1356093

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3918428 (LCS) Created on 12/16/2024 06:08 For QC Batch 1356093

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0022		0.0020	109	85 - 115		

QC Batch

QC Batch	1356194	Prep Method	SW846 7470A
Date	12/16/2024 07:57	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391836011 3391836012 3391836013 3391836014

Matrix Spike 3918525 (MS) 3391582003 (non-Project Sample) For QC Batch 1356194

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918526 (MSD) 3391582003 (non-Project Sample) For QC Batch 1356194

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0056	0.000059	0.0050	110	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0055	0.000059	0.0050	108	70 - 130	RPD 1.99 (Max-20)	

Method Blank 3918523 (MB) Created on 12/16/2024 07:22 For QC Batch 1356194

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3918524 (LCS) Created on 12/16/2024 07:22 For QC Batch 1356194

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0022		0.0020	111	85 - 115		

Matrix Spike 3918527 (MS) 3391836011 For QC Batch 1356194

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918528 (MSD) 3391836011 For QC Batch 1356194

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0053	0.000065	0.0050	106	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0054	0.000065	0.0050	106	70 - 130	RPD 0.19 (Max-20)	

QC Batch

QC Batch	1356408	Prep Method	SW846 7470A
Date	12/17/2024 07:40	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010		

Method Blank 3919104 (MB) Created on 12/17/2024 06:46 For QC Batch 1356408

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3919105 (LCS) Created on 12/17/2024 06:46 For QC Batch 1356408

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0019		0.0020	96	85 - 115		

Matrix Spike 3919106 (MS) 3391836009 For QC Batch 1356408

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919107 (MSD) 3391836009 For QC Batch 1356408

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0041	0.000026	0.0050	81.9	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0047	0.000026	0.0050	94.1	70 - 130	RPD 13.80 (Max-20)	

Matrix Spike 3919108 (MS) 3391836010 For QC Batch 1356408

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919109 (MSD) 3391836010 For QC Batch 1356408

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0038	0.000041	0.0050	75.4	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0.000041	0.0050	95.2	70 - 130	RPD 23* (Max-20)	

QC Batch

QC Batch	1356412	Prep Method	SW846 7470A
Date	12/17/2024 07:40	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010		

Method Blank 3919120 (MB) Created on 12/17/2024 06:57 For QC Batch 1356412

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3919121 (LCS) Created on 12/17/2024 06:57 For QC Batch 1356412

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0017		0.0020	86.5	85 - 115		

Matrix Spike 3919122 (MS) 3391836003 For QC Batch 1356412

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919123 (MSD) 3391836003 For QC Batch 1356412

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0049	0.000023	0.0050	96.5	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0049	0.000023	0.0050	96.7	70 - 130	RPD 0.21 (Max-20)	

Matrix Spike 3919124 (MS) 3391836002 For QC Batch 1356412

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919125 (MSD) 3391836002 For QC Batch 1356412

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0048	0.000027	0.0050	95.3	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0048	0.000027	0.0050	95.9	70 - 130	RPD 0.62 (Max-20)	

QC Batch

QC Batch	1363881	Prep Method	SW846 3015A
Date	01/03/2025 05:05	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Method Blank 3925459 (MB) Created on 01/03/2025 00:19 For QC Batch 1363881

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3925460 (LCS) Created on 01/03/2025 00:19 For QC Batch 1363881

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.1		1.10	102	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.24		0.22	106	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Arsenic, Dissolved	7440-38-2_D	LCS	0.11		0.11	98.3	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	105	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.23		0.22	106	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	105	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.1		1.10	98.6	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	106	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	108	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	103	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	105	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	104	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	105	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	116	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	107	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	22.6		22.20	102	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	107	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.2		22.20	104	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	98.4	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.055		0.0560	99.2	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.6		0.56	108	80 - 120		

Matrix Spike 3925461 (MS) 3391836012 For QC Batch 1363881

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3925462 (MSD) 3391836012 For QC Batch 1363881

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.1	0	1.10	102	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.1	0	1.10	103	75 - 125	RPD 0.89 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.24	0.0059	0.22	106	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.25	0.0059	0.22	108	75 - 125	RPD 1.28 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0	0.11	106	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.12	0	0.11	111	75 - 125	RPD 4.15 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0480	1.10	101	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.2	0.0480	1.10	102	75 - 125	RPD 0.77 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.23	0	0.22	102	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.23	0	0.22	103	75 - 125	RPD 0.73 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000110	0.11	98.6	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000110	0.11	99.6	75 - 125	RPD 1.01 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	341	341	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	343	341	1.10	NC	75 - 125	RPD 0.54 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.11	0.0024	0.11	101	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0024	0.11	101	75 - 125	RPD 0.19 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	100	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	102	75 - 125	RPD 1.60 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.1	0.0039	1.10	102	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0039	1.10	104	75 - 125	RPD 1.99 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	14.3	13.10	1.10	NC	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	14.4	13.10	1.10	NC	75 - 125	RPD 1.11 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.11	0	0.11	96.2	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.1	0	0.11	93.1	75 - 125	RPD 3.28 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	46.5	45.70	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	46.8	45.70	1.10	NC	75 - 125	RPD 0.64 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.94	0.81	0.11	NC	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.93	0.81	0.11	NC	75 - 125	RPD 0.29 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0	1.10	99.2	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0	1.10	101	75 - 125	RPD 1.81 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	39	16.10	22.20	103	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	39	16.10	22.20	103	75 - 125	RPD 0.18 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.2	0.0024	1.10	107	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.2	0.0024	1.10	107	75 - 125	RPD 0.17 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	108	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	109	75 - 125	RPD 1.11 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	101	78.10	22.20	102	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	101	78.10	22.20	103	75 - 125	RPD 0.18 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.097	0	0.11	87.1	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.1	0	0.11	94.5	75 - 125	RPD 8.15 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.052	0	0.0560	93	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.053	0	0.0560	94.6	75 - 125	RPD 1.71 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.54	0	0.56	97.1	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.55	0	0.56	98.3	75 - 125	RPD 1.21 (Max-20)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1356219	Prep Method	SW846 3510C
Date	12/16/2024 09:55	Analysis Method	SW846 8270E
Tech.	EJH		

Associated Samples

3391836001	3391836002	3391836003	3391836005
3391836006	3391836008	3391836009	

Matrix Spike 3918610 (MS) 3392207005 (non-Project Sample) For QC Batch 1356219

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918611 (MSD) 3392207005 (non-Project Sample) For QC Batch 1356219

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	MS	27.2	0	50	54.5	18 - 124		
1,2,4,5-Tetrachlorobenzene	95-94-3	MSD	25.8	0	50	51.5	18 - 124	RPD 5.65 (Max-30)	
1,4-Dioxane	123-91-1	MS	21.7	0	50	43.4	5 - 129		
1,4-Dioxane	123-91-1	MSD	21.4	0	50	42.8	5 - 129	RPD 1.45 (Max-30)	
2,3,4,6-Tetrachlorophenol	58-90-2	MS	87.3	0	100	87.3	36 - 133		
2,3,4,6-Tetrachlorophenol	58-90-2	MSD	78.8	0	100	78.8	36 - 133	RPD 10.30 (Max-30)	
2,4,5-Trichlorophenol	95-95-4	MS	92.8	0	100	92.8	44 - 148		
2,4,5-Trichlorophenol	95-95-4	MSD	81.2	0	100	81.2	44 - 148	RPD 13.40 (Max-23)	
2,4,6-Trichlorophenol	88-06-2	MS	88.2	0	100	88.2	41 - 148		
2,4,6-Trichlorophenol	88-06-2	MSD	77.8	0	100	77.8	41 - 148	RPD 12.60 (Max-23)	
2,4-Dichlorophenol	120-83-2	MS	88.8	0	100	88.8	44 - 142		
2,4-Dichlorophenol	120-83-2	MSD	78	0	100	78	44 - 142	RPD 13 (Max-30)	
2,4-Dimethylphenol	105-67-9	MS	96.9	0	100	96.9	46 - 141		
2,4-Dimethylphenol	105-67-9	MSD	88	0	100	88	46 - 141	RPD 9.54 (Max-30)	
2,4-Dinitrophenol	51-28-5	MS	84.1	0	100	84.1	21 - 140		
2,4-Dinitrophenol	51-28-5	MSD	76.1	0	100	76.1	21 - 140	RPD 9.95 (Max-30)	
2,4-Dinitrotoluene	121-14-2	MS	49.3	0	50	98.5	49 - 138		
2,4-Dinitrotoluene	121-14-2	MSD	45.3	0	50	90.6	49 - 138	RPD 8.42 (Max-22)	
2,6-Dinitrotoluene	606-20-2	MS	51.3	0	50	103	49 - 136		
2,6-Dinitrotoluene	606-20-2	MSD	46.6	0	50	93.3	49 - 136	RPD 9.60 (Max-30)	
2-Chloronaphthalene	91-58-7	MS	35.3	0	50	70.6	27 - 125		
2-Chloronaphthalene	91-58-7	MSD	32.6	0	50	65.2	27 - 125	RPD 7.91 (Max-30)	
2-Chlorophenol	95-57-8	MS	81.7	0	100	81.7	42 - 137		
2-Chlorophenol	95-57-8	MSD	76.2	0	100	76.2	42 - 137	RPD 6.89 (Max-30)	
2-Methyl-4,6-dinitrophenol	534-52-1	MS	90.4	0	100	90.4	46 - 133		
2-Methyl-4,6-dinitrophenol	534-52-1	MSD	80.3	0	100	80.3	46 - 133	RPD 11.80 (Max-30)	
2-Methylnaphthalene	91-57-6	MS	34.5	0	50	69	22 - 124		
2-Methylnaphthalene	91-57-6	MSD	31.9	0	50	63.8	22 - 124	RPD 7.83 (Max-30)	
2-Nitroaniline	88-74-4	MS	48.2	0	50	96.4	55 - 138		
2-Nitroaniline	88-74-4	MSD	44.9	0	50	89.7	55 - 138	RPD 7.18 (Max-30)	
2-Nitrophenol	88-75-5	MS	85.2	0	100	85.2	46 - 140		
2-Nitrophenol	88-75-5	MSD	77.2	0	100	77.2	46 - 140	RPD 9.92 (Max-30)	
3,3-Dichlorobenzidine	91-94-1	MS	59	0	100	59	38 - 115		
3,3-Dichlorobenzidine	91-94-1	MSD	50.1	0	100	50.1	38 - 115	RPD 16.30 (Max-30)	
3-Nitroaniline	99-09-2	MS	43.8	0	50	87.6	60 - 123		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
3-Nitroaniline	99-09-2	MSD	38.9	0	50	77.8	60 - 123	RPD 11.90 (Max-30)	
4-Bromophenyl-phenylether	101-55-3	MS	43	0	50	86	46 - 128		
4-Bromophenyl-phenylether	101-55-3	MSD	37.9	0	50	75.8	46 - 128	RPD 12.60 (Max-30)	
4-Chloro-3-methylphenol	59-50-7	MS	99.2	0	100	99.2	46 - 144		
4-Chloro-3-methylphenol	59-50-7	MSD	90.6	0	100	90.6	46 - 144	RPD 9 (Max-30)	
4-Chloroaniline	106-47-8	MS	32.9	0	50	65.7	44 - 113		
4-Chloroaniline	106-47-8	MSD	29.6	0	50	59.2	44 - 113	RPD 10.50 (Max-30)	
4-Chlorophenyl-phenylether	7005-72-3	MS	42.4	0	50	84.8	38 - 128		
4-Chlorophenyl-phenylether	7005-72-3	MSD	40.2	0	50	80.4	38 - 128	RPD 5.42 (Max-30)	
4-Nitroaniline	100-01-6	MS	45.8	0	50	91.7	53 - 124		
4-Nitroaniline	100-01-6	MSD	41.9	0	50	83.7	53 - 124	RPD 9.11 (Max-30)	
4-Nitrophenol	100-02-7	MS	60.4	0	100	60.4	5 - 108		
4-Nitrophenol	100-02-7	MSD	53.5	0	100	53.5	5 - 108	RPD 12.10 (Max-30)	
Acenaphthene	83-32-9	MS	41.4	0	50	82.8	36 - 130		
Acenaphthene	83-32-9	MSD	38.2	0	50	76.4	36 - 130	RPD 8.03 (Max-30)	
Acenaphthylene	208-96-8	MS	37.1	0	50	74.1	39 - 130		
Acenaphthylene	208-96-8	MSD	33.8	0	50	67.7	39 - 130	RPD 9.15 (Max-30)	
Acetophenone	98-86-2	MS	40.3	0	50	80.7	49 - 117		
Acetophenone	98-86-2	MSD	38.4	0	50	76.8	49 - 117	RPD 4.90 (Max-30)	
Anthracene	120-12-7	MS	47	0	50	94	48 - 133		
Anthracene	120-12-7	MSD	42.1	0	50	84.2	48 - 133	RPD 11 (Max-30)	
Atrazine	1912-24-9	MS	47.5	0	50	95	44 - 149		
Atrazine	1912-24-9	MSD	41.5	0	50	82.9	44 - 149	RPD 13.70 (Max-30)	
Benzaldehyde	100-52-7	MS	40	0	50	79.9	38 - 145		
Benzaldehyde	100-52-7	MSD	36.1	0	50	72.3	38 - 145	RPD 10.10 (Max-30)	
Benzo(a)anthracene	56-55-3	MS	44.7	0	50	89.4	51 - 127		
Benzo(a)anthracene	56-55-3	MSD	41.4	0	50	82.7	51 - 127	RPD 7.80 (Max-30)	
Benzo(a)pyrene	50-32-8	MS	45.9	0	50	91.8	53 - 127		
Benzo(a)pyrene	50-32-8	MSD	41.8	0	50	83.5	53 - 127	RPD 9.40 (Max-30)	
Benzo(b)fluoranthene	205-99-2	MS	45.7	0	50	91.4	53 - 131		
Benzo(b)fluoranthene	205-99-2	MSD	43.4	0	50	86.9	53 - 131	RPD 5.10 (Max-30)	
Benzo(g,h,i)perylene	191-24-2	MS	41.7	0	50	83.4	54 - 131		
Benzo(g,h,i)perylene	191-24-2	MSD	35.5	0	50	71	54 - 131	RPD 16 (Max-30)	
Benzo(k)fluoranthene	207-08-9	MS	47.4	0	50	94.8	52 - 130		
Benzo(k)fluoranthene	207-08-9	MSD	43	0	50	85.9	52 - 130	RPD 9.76 (Max-30)	
Biphenyl	92-52-4	MS	35.1	0	50	70.2	30 - 132		
Biphenyl	92-52-4	MSD	32.5	0	50	64.9	30 - 132	RPD 7.81 (Max-30)	
bis(2-Chloroethoxy)methane	111-91-1	MS	44.9	0	50	89.7	43 - 132		
bis(2-Chloroethoxy)methane	111-91-1	MSD	42.3	0	50	84.5	43 - 132	RPD 5.97 (Max-30)	
bis(2-Chloroethyl)ether	111-44-4	MS	41.5	0	50	82.9	41 - 128		
bis(2-Chloroethyl)ether	111-44-4	MSD	39.5	0	50	79	41 - 128	RPD 4.81 (Max-30)	
bis(2-Chloroisopropyl)ether	108-60-1	MS	41.6	0	50	83.2	32 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	MSD	39.8	0	50	79.5	32 - 128	RPD 4.54 (Max-30)	
bis(2-Ethylhexyl)phthalate	117-81-7	MS	40.3	0	50	80.5	41 - 145		
bis(2-Ethylhexyl)phthalate	117-81-7	MSD	40.4	0	50	80.9	41 - 145	RPD 0.43 (Max-30)	
Butylbenzylphthalate	85-68-7	MS	51.9	0	50	104	50 - 137		
Butylbenzylphthalate	85-68-7	MSD	49.2	0	50	98.3	50 - 137	RPD 5.47 (Max-30)	
Caprolactam	105-60-2	MS	22.2	0	50	44.3	5 - 118		
Caprolactam	105-60-2	MSD	21.4	0	50	42.8	5 - 118	RPD 3.48 (Max-30)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Carbazole	86-74-8	MS	47.2	0	50	94.3	52 - 139		
Carbazole	86-74-8	MSD	42.4	0	50	84.7	52 - 139	RPD 10.70 (Max-30)	
Chrysene	218-01-9	MS	45.7	0	50	91.3	50 - 131		
Chrysene	218-01-9	MSD	42	0	50	84.1	50 - 131	RPD 8.24 (Max-30)	
Dibenzo(a,h)anthracene	53-70-3	MS	42.6	0	50	85.3	56 - 130		
Dibenzo(a,h)anthracene	53-70-3	MSD	36.9	0	50	73.8	56 - 130	RPD 14.40 (Max-30)	
Dibenzofuran	132-64-9	MS	42.1	0	50	84.2	39 - 133		
Dibenzofuran	132-64-9	MSD	38.4	0	50	76.7	39 - 133	RPD 9.26 (Max-30)	
Diethylphthalate	84-66-2	MS	49.2	0	50	98.4	45 - 132		
Diethylphthalate	84-66-2	MSD	45.9	0	50	91.9	45 - 132	RPD 6.85 (Max-30)	
Dimethylphthalate	131-11-3	MS	45.5	0	50	90.9	44 - 131		
Dimethylphthalate	131-11-3	MSD	43.2	0	50	86.4	44 - 131	RPD 5.06 (Max-30)	
Di-n-Butylphthalate	84-74-2	MS	48.6	0	50	97.2	47 - 135		
Di-n-Butylphthalate	84-74-2	MSD	45.7	0	50	91.4	47 - 135	RPD 6.15 (Max-30)	
Di-n-Octylphthalate	117-84-0	MS	40.9	0	50	81.9	35 - 141		
Di-n-Octylphthalate	117-84-0	MSD	40.9	0	50	81.8	35 - 141	RPD 0.06 (Max-30)	
Fluoranthene	206-44-0	MS	46.1	0	50	92.3	49 - 132		
Fluoranthene	206-44-0	MSD	42.1	0	50	84.1	49 - 132	RPD 9.27 (Max-30)	
Fluorene	86-73-7	MS	44.8	0	50	89.6	42 - 131		
Fluorene	86-73-7	MSD	41.6	0	50	83.2	42 - 131	RPD 7.36 (Max-30)	
Hexachlorobenzene	118-74-1	MS	41	0	50	82.1	59 - 109		
Hexachlorobenzene	118-74-1	MSD	37.7	0	50	75.3	59 - 109	RPD 8.57 (Max-21)	
Hexachlorobutadiene	87-68-3	MS	20.6	0	50	41.1	5 - 126		
Hexachlorobutadiene	87-68-3	MSD	18.9	0	50	37.8	5 - 126	RPD 8.26 (Max-30)	
Hexachlorocyclopentadiene	77-47-4	MS	14.4	0	50	28.9	5 - 97		
Hexachlorocyclopentadiene	77-47-4	MSD	13.8	0	50	27.5	5 - 97	RPD 4.87 (Max-30)	
Hexachloroethane	67-72-1	MS	20.9	0	50	41.8	5 - 111		
Hexachloroethane	67-72-1	MSD	19.3	0	50	38.6	5 - 111	RPD 7.95 (Max-30)	
Indeno(1,2,3-cd)pyrene	193-39-5	MS	40	0	50	80.1	55 - 126		
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	34	0	50	68	55 - 126	RPD 16.40 (Max-30)	
Isophorone	78-59-1	MS	45.3	0	50	90.7	45 - 129		
Isophorone	78-59-1	MSD	42.4	0	50	84.8	45 - 129	RPD 6.68 (Max-30)	
mp-Cresol	108394/106445	MS	87.4	0	100	87.4	28 - 128		
mp-Cresol	108394/106445	MSD	82.3	0	100	82.3	28 - 128	RPD 5.96 (Max-20)	
Naphthalene	91-20-3	MS	31.4	0	50	62.8	21 - 123		
Naphthalene	91-20-3	MSD	29.4	0	50	58.9	21 - 123	RPD 6.44 (Max-30)	
Nitrobenzene	98-95-3	MS	39.5	0	50	79.1	41 - 128		
Nitrobenzene	98-95-3	MSD	37.2	0	50	74.4	41 - 128	RPD 6.11 (Max-19)	
N-Nitroso-di-n-propylamine	621-64-7	MS	45.9	0	50	91.8	46 - 133		
N-Nitroso-di-n-propylamine	621-64-7	MSD	43.4	0	50	86.8	46 - 133	RPD 5.58 (Max-30)	
N-Nitrosodiphenylamine	86-30-6	MS	47.9	0	50	95.8	58 - 125		
N-Nitrosodiphenylamine	86-30-6	MSD	44.2	0	50	88.3	58 - 125	RPD 8.18 (Max-30)	
o-Cresol	95-48-7	MS	82.6	0	100	82.6	34 - 136		
o-Cresol	95-48-7	MSD	80.3	0	100	80.3	34 - 136	RPD 2.83 (Max-23)	
Pentachlorophenol	87-86-5	MS	94.7	0	100	94.7	41 - 149		
Pentachlorophenol	87-86-5	MSD	84.3	0	100	84.3	41 - 149	RPD 11.60 (Max-28)	
Phenanthrene	85-01-8	MS	46	0	50	92.1	46 - 131		
Phenanthrene	85-01-8	MSD	40.7	0	50	81.5	46 - 131	RPD 12.20 (Max-30)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Phenol	108-95-2	MS	51.3	0	100	51.3	5 - 111		
Phenol	108-95-2	MSD	48.6	0	100	48.6	5 - 111	RPD 5.34 (Max-30)	
Pyrene	129-00-0	MS	49.3	0	50	98.6	48 - 134		
Pyrene	129-00-0	MSD	44.2	0	50	88.4	48 - 134	RPD 10.90 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	96.1	100	96.1	23 - 131	
2,4,6-Tribromophenol	118-79-6	MSD	78.9	100	78.9	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	43.3	50	86.5	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	37.2	50	74.3	24 - 116	
2-Fluorophenol	367-12-4	MS	58	100	58	10 - 85	
2-Fluorophenol	367-12-4	MSD	51.5	100	51.5	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	43.3	50	86.7	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	38.2	50	76.4	32 - 125	
Phenol-d5	4165-62-2	MS	49	100	49	7 - 56	
Phenol-d5	4165-62-2	MSD	44	100	44	7 - 56	
Terphenyl-d14	98904-43-9	MS	38.9	50	77.9	41 - 145	
Terphenyl-d14	98904-43-9	MSD	36.6	50	73.2	41 - 145	

Method Blank 3918608 (MB) Created on 12/16/2024 08:52 For QC Batch 1356219

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	86	100	86	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	37.4	50	74.8	24 - 116	
2-Fluorophenol	367-12-4	BLK	56.7	100	56.7	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	39.7	50	79.4	32 - 125	
Phenol-d5	4165-62-2	BLK	43.9	100	43.9	7 - 56	
Terphenyl-d14	98904-43-9	BLK	48.1	50	96.3	41 - 145	

Lab Control Standard 3918609 (LCS) Created on 12/16/2024 08:52 For QC Batch 1356219

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	22.4		50	44.7	18 - 124		
1,4-Dioxane	123-91-1	LCS	24		50	48	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	103		100	103	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	109		100	109	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	105		100	105	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	105		100	105	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	119		100	119	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	103		100	103	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	44.2		50	88.3	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	45.6		50	91.1	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	30.3		50	60.5	27 - 125		
2-Chlorophenol	95-57-8	LCS	101		100	101	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	107		100	107	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	29.1		50	58.1	22 - 124		
2-Nitroaniline	88-74-4	LCS	44.4		50	88.8	55 - 138		
2-Nitrophenol	88-75-5	LCS	105		100	105	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	63.8		100	63.8	38 - 115		
3-Nitroaniline	99-09-2	LCS	40.1		50	80.1	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	37.3		50	74.7	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	116		100	116	46 - 144		
4-Chloroaniline	106-47-8	LCS	31.6		50	63.2	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	37.3		50	74.5	38 - 128		
4-Nitroaniline	100-01-6	LCS	41.2		50	82.5	53 - 124		
4-Nitrophenol	100-02-7	LCS	71.3		100	71.3	5 - 108		
Acenaphthene	83-32-9	LCS	35.6		50	71.2	36 - 130		
Acenaphthylene	208-96-8	LCS	32.5		50	65.1	39 - 130		
Acetophenone	98-86-2	LCS	37.8		50	75.6	49 - 117		
Anthracene	120-12-7	LCS	41.6		50	83.3	48 - 133		
Atrazine	1912-24-9	LCS	43		50	86.1	44 - 149		
Benzaldehyde	100-52-7	LCS	38.5		50	77	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	42.3		50	84.7	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	43.9		50	87.8	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	44.8		50	89.5	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	38.9		50	77.8	54 - 131		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzo(k)fluoranthene	207-08-9	LCS	44.5		50	89.1	52 - 130		
Biphenyl	92-52-4	LCS	30.2		50	60.4	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	43		50	85.9	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	39.9		50	79.8	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	39.3		50	78.5	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	45.7		50	91.4	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	49.5		50	99	50 - 137		
Caprolactam	105-60-2	LCS	20.7		50	41.5	5 - 118		
Carbazole	86-74-8	LCS	41.6		50	83.2	52 - 139		
Chrysene	218-01-9	LCS	42.4		50	84.9	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	39.2		50	78.3	56 - 130		
Dibenzofuran	132-64-9	LCS	36.6		50	73.2	39 - 133		
Diethylphthalate	84-66-2	LCS	43.7		50	87.4	45 - 132		
Dimethylphthalate	131-11-3	LCS	41.2		50	82.4	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	45.2		50	90.3	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	45.7		50	91.3	35 - 141		
Fluoranthene	206-44-0	LCS	41.4		50	82.9	49 - 132		
Fluorene	86-73-7	LCS	39.5		50	79	42 - 131		
Hexachlorobenzene	118-74-1	LCS	37.5		50	75.1	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	17		50	34.1	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	11		50	21.9	5 - 97		
Hexachloroethane	67-72-1	LCS	17.8		50	35.7	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	36.7		50	73.5	55 - 126		
Isophorone	78-59-1	LCS	42.6		50	85.1	45 - 129		
mp-Cresol	108394/106445	LCS	107		100	107	28 - 128		
Naphthalene	91-20-3	LCS	28.2		50	56.4	21 - 123		
Nitrobenzene	98-95-3	LCS	37.8		50	75.7	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	41.7		50	83.4	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	48.4		50	96.8	58 - 125		
o-Cresol	95-48-7	LCS	103		100	103	34 - 136		
Pentachlorophenol	87-86-5	LCS	112		100	112	41 - 149		
Phenanthrene	85-01-8	LCS	40.4		50	80.7	46 - 131		
Phenol	108-95-2	LCS	67.4		100	67.4	5 - 111		
Pyrene	129-00-0	LCS	45.4		50	90.8	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	84.8	100	84.8	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	40.8	50	81.6	24 - 116	
2-Fluorophenol	367-12-4	LCS	59.4	100	59.4	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	41.9	50	83.9	32 - 125	
Phenol-d5	4165-62-2	LCS	48.9	100	48.9	7 - 56	
Terphenyl-d14	98904-43-9	LCS	46.9	50	93.8	41 - 145	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

QC Batch

QC Batch	1356521	Prep Method	SW846 3510C
Date	12/17/2024 15:30	Analysis Method	SW846 8270E
Tech.	BMP		

Associated Samples

3391836004	3391836007	3391836010	3391836011
3391836012	3391836013	3391836014	

Matrix Spike 3919520 (MS) 3392038005 (non-Project Sample) For QC Batch 1356521

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919521 (MSD) 3392038005 (non-Project Sample) For QC Batch 1356521

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	MS	32.9	0	50	65.7	18 - 124		
1,2,4,5-Tetrachlorobenzene	95-94-3	MSD	33.5	0	50	67	18 - 124	RPD 1.92 (Max-30)	
1,4-Dioxane	123-91-1	MS	23.8	0	50	47.7	5 - 129		
1,4-Dioxane	123-91-1	MSD	22.8	0	50	45.7	5 - 129	RPD 4.24 (Max-30)	
2,3,4,6-Tetrachlorophenol	58-90-2	MS	99.4	0	100	99.4	36 - 133		
2,3,4,6-Tetrachlorophenol	58-90-2	MSD	94.3	0	100	94.3	36 - 133	RPD 5.25 (Max-30)	
2,4,5-Trichlorophenol	95-95-4	MS	99.8	0	100	99.8	44 - 148		
2,4,5-Trichlorophenol	95-95-4	MSD	100	0	100	100	44 - 148	RPD 0.12 (Max-23)	
2,4,6-Trichlorophenol	88-06-2	MS	97.5	0	100	97.5	41 - 148		
2,4,6-Trichlorophenol	88-06-2	MSD	98.2	0	100	98.2	41 - 148	RPD 0.68 (Max-23)	
2,4-Dichlorophenol	120-83-2	MS	93.1	0	100	93.1	44 - 142		
2,4-Dichlorophenol	120-83-2	MSD	97.4	0	100	97.4	44 - 142	RPD 4.47 (Max-30)	
2,4-Dimethylphenol	105-67-9	MS	100	0	100	100	46 - 141		
2,4-Dimethylphenol	105-67-9	MSD	97.7	0	100	97.7	46 - 141	RPD 2.45 (Max-30)	
2,4-Dinitrophenol	51-28-5	MS	106	0	100	106	21 - 140		
2,4-Dinitrophenol	51-28-5	MSD	96.6	0	100	96.6	21 - 140	RPD 9.50 (Max-30)	
2,4-Dinitrotoluene	121-14-2	MS	51.6	0	50	103	49 - 138		
2,4-Dinitrotoluene	121-14-2	MSD	52.9	0	50	106	49 - 138	RPD 2.56 (Max-22)	
2,6-Dinitrotoluene	606-20-2	MS	54.1	0	50	108	49 - 136		
2,6-Dinitrotoluene	606-20-2	MSD	54.3	0	50	109	49 - 136	RPD 0.26 (Max-30)	
2-Chloronaphthalene	91-58-7	MS	39.9	0	50	79.9	27 - 125		
2-Chloronaphthalene	91-58-7	MSD	40.8	0	50	81.6	27 - 125	RPD 2.12 (Max-30)	
2-Chlorophenol	95-57-8	MS	86.4	0	100	86.4	42 - 137		
2-Chlorophenol	95-57-8	MSD	89.8	0	100	89.8	42 - 137	RPD 3.82 (Max-30)	
2-Methyl-4,6-dinitrophenol	534-52-1	MS	109	0	100	109	46 - 133		
2-Methyl-4,6-dinitrophenol	534-52-1	MSD	105	0	100	105	46 - 133	RPD 4.14 (Max-30)	
2-Methylnaphthalene	91-57-6	MS	39.9	0	50	79.7	22 - 124		
2-Methylnaphthalene	91-57-6	MSD	40.6	0	50	81.2	22 - 124	RPD 1.80 (Max-30)	
2-Nitroaniline	88-74-4	MS	51.3	0	50	103	55 - 138		
2-Nitroaniline	88-74-4	MSD	51.1	0	50	102	55 - 138	RPD 0.37 (Max-30)	
2-Nitrophenol	88-75-5	MS	90.9	0	100	90.9	46 - 140		
2-Nitrophenol	88-75-5	MSD	96.6	0	100	96.6	46 - 140	RPD 6.12 (Max-30)	
3,3-Dichlorobenzidine	91-94-1	MS	73.5	0	100	73.5	38 - 115		
3,3-Dichlorobenzidine	91-94-1	MSD	71	0	100	71	38 - 115	RPD 3.34 (Max-30)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
3-Nitroaniline	99-09-2	MS	46.1	0	50	92.2	60 - 123		
3-Nitroaniline	99-09-2	MSD	45.9	0	50	91.8	60 - 123	RPD 0.36 (Max-30)	
4-Bromophenyl-phenylether	101-55-3	MS	46.6	0	50	93.2	46 - 128		
4-Bromophenyl-phenylether	101-55-3	MSD	47.4	0	50	94.8	46 - 128	RPD 1.69 (Max-30)	
4-Chloro-3-methylphenol	59-50-7	MS	103	0	100	103	46 - 144		
4-Chloro-3-methylphenol	59-50-7	MSD	103	0	100	103	46 - 144	RPD 0.77 (Max-30)	
4-Chloroaniline	106-47-8	MS	34.1	0	50	68.2	44 - 113		
4-Chloroaniline	106-47-8	MSD	33	0	50	65.9	44 - 113	RPD 3.35 (Max-30)	
4-Chlorophenyl-phenylether	7005-72-3	MS	47.1	0	50	94.2	38 - 128		
4-Chlorophenyl-phenylether	7005-72-3	MSD	47.1	0	50	94.2	38 - 128	RPD 0.06 (Max-30)	
4-Nitroaniline	100-01-6	MS	47.6	0	50	95.3	53 - 124		
4-Nitroaniline	100-01-6	MSD	46.2	0	50	92.3	53 - 124	RPD 3.18 (Max-30)	
4-Nitrophenol	100-02-7	MS	67.4	0	100	67.4	5 - 108		
4-Nitrophenol	100-02-7	MSD	61.9	0	100	61.9	5 - 108	RPD 8.48 (Max-30)	
Acenaphthene	83-32-9	MS	45.1	0	50	90.1	36 - 130		
Acenaphthene	83-32-9	MSD	46.5	0	50	92.9	36 - 130	RPD 3.06 (Max-30)	
Acenaphthylene	208-96-8	MS	39.9	0	50	79.9	39 - 130		
Acenaphthylene	208-96-8	MSD	41	0	50	82	39 - 130	RPD 2.61 (Max-30)	
Acetophenone	98-86-2	MS	43	0	50	86	49 - 117		
Acetophenone	98-86-2	MSD	43.5	0	50	87	49 - 117	RPD 1.14 (Max-30)	
Anthracene	120-12-7	MS	50.1	0	50	100	48 - 133		
Anthracene	120-12-7	MSD	50.3	0	50	101	48 - 133	RPD 0.35 (Max-30)	
Atrazine	1912-24-9	MS	51.2	0	50	102	44 - 149		
Atrazine	1912-24-9	MSD	51.4	0	50	103	44 - 149	RPD 0.28 (Max-30)	
Benzaldehyde	100-52-7	MS	43.2	0	50	86.4	38 - 145		
Benzaldehyde	100-52-7	MSD	44.1	0	50	88.3	38 - 145	RPD 2.20 (Max-30)	
Benzo(a)anthracene	56-55-3	MS	48.7	0	50	97.4	51 - 127		
Benzo(a)anthracene	56-55-3	MSD	50	0	50	100	51 - 127	RPD 2.62 (Max-30)	
Benzo(a)pyrene	50-32-8	MS	49.1	0	50	98.2	53 - 127		
Benzo(a)pyrene	50-32-8	MSD	50.5	0	50	101	53 - 127	RPD 2.74 (Max-30)	
Benzo(b)fluoranthene	205-99-2	MS	52.8	0	50	106	53 - 131		
Benzo(b)fluoranthene	205-99-2	MSD	51.4	0	50	103	53 - 131	RPD 2.67 (Max-30)	
Benzo(g,h,i)perylene	191-24-2	MS	45.5	0	50	91	54 - 131		
Benzo(g,h,i)perylene	191-24-2	MSD	46.6	0	50	93.2	54 - 131	RPD 2.35 (Max-30)	
Benzo(k)fluoranthene	207-08-9	MS	51.9	0	50	104	52 - 130		
Benzo(k)fluoranthene	207-08-9	MSD	52.3	0	50	105	52 - 130	RPD 0.74 (Max-30)	
Biphenyl	92-52-4	MS	40.3	0	50	80.6	30 - 132		
Biphenyl	92-52-4	MSD	40.5	0	50	81.1	30 - 132	RPD 0.55 (Max-30)	
bis(2-Chloroethoxy)methane	111-91-1	MS	49.3	0	50	98.7	43 - 132		
bis(2-Chloroethoxy)methane	111-91-1	MSD	51.4	0	50	103	43 - 132	RPD 4.17 (Max-30)	
bis(2-Chloroethyl)ether	111-44-4	MS	44.5	0	50	88.9	41 - 128		
bis(2-Chloroethyl)ether	111-44-4	MSD	45.9	0	50	91.8	41 - 128	RPD 3.19 (Max-30)	
bis(2-Chloroisopropyl)ether	108-60-1	MS	46.3	0	50	92.7	32 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	MSD	46.6	0	50	93.3	32 - 128	RPD 0.66 (Max-30)	
bis(2-Ethylhexyl)phthalate	117-81-7	MS	56.9	0	50	114	41 - 145		
bis(2-Ethylhexyl)phthalate	117-81-7	MSD	57.2	0	50	114	41 - 145	RPD 0.51 (Max-30)	
Butylbenzylphthalate	85-68-7	MS	61.1	0	50	122	50 - 137		
Butylbenzylphthalate	85-68-7	MSD	62	0	50	124	50 - 137	RPD 1.51 (Max-30)	
Caprolactam	105-60-2	MS	22	0	50	44.1	5 - 118		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Caprolactam	105-60-2	MSD	21.7	0	50	43.3	5 - 118	RPD 1.68 (Max-30)	
Carbazole	86-74-8	MS	49.9	0	50	99.8	52 - 139		
Carbazole	86-74-8	MSD	49.1	0	50	98.1	52 - 139	RPD 1.67 (Max-30)	
Chrysene	218-01-9	MS	49.4	0	50	98.8	50 - 131		
Chrysene	218-01-9	MSD	50.5	0	50	101	50 - 131	RPD 2.13 (Max-30)	
Dibenzo(a,h)anthracene	53-70-3	MS	46.7	0	50	93.3	56 - 130		
Dibenzo(a,h)anthracene	53-70-3	MSD	47	0	50	94	56 - 130	RPD 0.69 (Max-30)	
Dibenzofuran	132-64-9	MS	45.2	0	50	90.5	39 - 133		
Dibenzofuran	132-64-9	MSD	46.1	0	50	92.2	39 - 133	RPD 1.93 (Max-30)	
Diethylphthalate	84-66-2	MS	52.6	0	50	105	45 - 132		
Diethylphthalate	84-66-2	MSD	53.4	0	50	107	45 - 132	RPD 1.51 (Max-30)	
Dimethylphthalate	131-11-3	MS	49.4	0	50	98.7	44 - 131		
Dimethylphthalate	131-11-3	MSD	49.5	0	50	99.1	44 - 131	RPD 0.37 (Max-30)	
Di-n-Butylphthalate	84-74-2	MS	55.6	0	50	111	47 - 135		
Di-n-Butylphthalate	84-74-2	MSD	55.5	0	50	111	47 - 135	RPD 0.16 (Max-30)	
Di-n-Octylphthalate	117-84-0	MS	54.8	0	50	110	35 - 141		
Di-n-Octylphthalate	117-84-0	MSD	54.9	0	50	110	35 - 141	RPD 0.21 (Max-30)	
Fluoranthene	206-44-0	MS	49.4	0	50	98.8	49 - 132		
Fluoranthene	206-44-0	MSD	48.6	0	50	97.1	49 - 132	RPD 1.68 (Max-30)	
Fluorene	86-73-7	MS	48.4	0	50	96.8	42 - 131		
Fluorene	86-73-7	MSD	49	0	50	98	42 - 131	RPD 1.23 (Max-30)	
Hexachlorobenzene	118-74-1	MS	44.8	0	50	89.6	59 - 109		
Hexachlorobenzene	118-74-1	MSD	46.4	0	50	92.7	59 - 109	RPD 3.39 (Max-21)	
Hexachlorobutadiene	87-68-3	MS	24.5	0	50	49.1	5 - 126		
Hexachlorobutadiene	87-68-3	MSD	24.1	0	50	48.2	5 - 126	RPD 1.77 (Max-30)	
Hexachlorocyclopentadiene	77-47-4	MS	17	0	50	34	5 - 97		
Hexachlorocyclopentadiene	77-47-4	MSD	17	0	50	34	5 - 97	RPD 0.0090 (Max-30)	
Hexachloroethane	67-72-1	MS	22.6	0	50	45.3	5 - 111		
Hexachloroethane	67-72-1	MSD	20.4	0	50	40.9	5 - 111	RPD 10.20 (Max-30)	
Indeno(1,2,3-cd)pyrene	193-39-5	MS	43.4	0	50	86.7	55 - 126		
Indeno(1,2,3-cd)pyrene	193-39-5	MSD	44	0	50	88	55 - 126	RPD 1.43 (Max-30)	
Isophorone	78-59-1	MS	48.3	0	50	96.6	45 - 129		
Isophorone	78-59-1	MSD	49.9	0	50	99.7	45 - 129	RPD 3.16 (Max-30)	
mp-Cresol	108394/106445	MS	88.1	0	100	88.1	28 - 128		
mp-Cresol	108394/106445	MSD	88.9	0	100	88.9	28 - 128	RPD 0.91 (Max-20)	
Naphthalene	91-20-3	MS	35.4	0	50	70.8	21 - 123		
Naphthalene	91-20-3	MSD	36.7	0	50	73.4	21 - 123	RPD 3.71 (Max-30)	
Nitrobenzene	98-95-3	MS	42.1	0	50	84.1	41 - 128		
Nitrobenzene	98-95-3	MSD	44.2	0	50	88.3	41 - 128	RPD 4.90 (Max-19)	
N-Nitroso-di-n-propylamine	621-64-7	MS	48.8	0	50	97.5	46 - 133		
N-Nitroso-di-n-propylamine	621-64-7	MSD	48.8	0	50	97.6	46 - 133	RPD 0.07 (Max-30)	
N-Nitrosodiphenylamine	86-30-6	MS	57.7	0	50	115	58 - 125		
N-Nitrosodiphenylamine	86-30-6	MSD	59	0	50	118	58 - 125	RPD 2.24 (Max-30)	
o-Cresol	95-48-7	MS	84.4	0	100	84.4	34 - 136		
o-Cresol	95-48-7	MSD	87.1	0	100	87.1	34 - 136	RPD 3.07 (Max-23)	
Pentachlorophenol	87-86-5	MS	114	0	100	114	41 - 149		
Pentachlorophenol	87-86-5	MSD	106	0	100	106	41 - 149	RPD 6.66 (Max-28)	
Phenanthrene	85-01-8	MS	48.8	0	50	97.5	46 - 131		
Phenanthrene	85-01-8	MSD	49.3	0	50	98.6	46 - 131	RPD 1.05 (Max-30)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Phenol	108-95-2	MS	51.1	0	100	51.1	5 - 111		
Phenol	108-95-2	MSD	53.1	0	100	53.1	5 - 111	RPD 3.76 (Max-30)	
Pyrene	129-00-0	MS	53.3	0	50	107	48 - 134		
Pyrene	129-00-0	MSD	56.4	0	50	113	48 - 134	RPD 5.61 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	96.6	100	96.6	23 - 131	
2,4,6-Tribromophenol	118-79-6	MSD	96.3	100	96.3	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	44.3	50	88.7	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	45.5	50	91	24 - 116	
2-Fluorophenol	367-12-4	MS	60.1	100	60.1	10 - 85	
2-Fluorophenol	367-12-4	MSD	60.7	100	60.7	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	43.4	50	86.8	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	45.3	50	90.7	32 - 125	
Phenol-d5	4165-62-2	MS	46.7	100	46.7	7 - 56	
Phenol-d5	4165-62-2	MSD	48.3	100	48.3	7 - 56	
Terphenyl-d14	98904-43-9	MS	40.1	50	80.2	41 - 145	
Terphenyl-d14	98904-43-9	MSD	41.9	50	83.8	41 - 145	

Method Blank 3919518 (MB) Created on 12/17/2024 13:37 For QC Batch 1356521

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	70.5	100	70.5	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	39.2	50	78.4	24 - 116	
2-Fluorophenol	367-12-4	BLK	56.1	100	56.1	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	40.1	50	80.1	32 - 125	
Phenol-d5	4165-62-2	BLK	43.3	100	43.3	7 - 56	
Terphenyl-d14	98904-43-9	BLK	46.7	50	93.3	41 - 145	

Lab Control Standard 3919519 (LCS) Created on 12/17/2024 13:37 For QC Batch 1356521

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	29.3		50	58.5	18 - 124		
1,4-Dioxane	123-91-1	LCS	25.5		50	51	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	95		100	95	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	98		100	98	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	95.4		100	95.4	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	91.7		100	91.7	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	101		100	101	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	105		100	105	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	51.3		50	103	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	54.4		50	109	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	38.3		50	76.6	27 - 125		
2-Chlorophenol	95-57-8	LCS	89.5		100	89.5	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	105		100	105	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	36.6		50	73.2	22 - 124		
2-Nitroaniline	88-74-4	LCS	51.7		50	103	55 - 138		
2-Nitrophenol	88-75-5	LCS	90.9		100	90.9	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	71.9		100	71.9	38 - 115		
3-Nitroaniline	99-09-2	LCS	46.3		50	92.6	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	45.2		50	90.3	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	99.7		100	99.7	46 - 144		
4-Chloroaniline	106-47-8	LCS	33		50	65.9	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	46		50	91.9	38 - 128		
4-Nitroaniline	100-01-6	LCS	48.1		50	96.2	53 - 124		
4-Nitrophenol	100-02-7	LCS	64		100	64	5 - 108		
Acenaphthene	83-32-9	LCS	44.1		50	88.3	36 - 130		
Acenaphthylene	208-96-8	LCS	39.8		50	79.6	39 - 130		
Acetophenone	98-86-2	LCS	43.5		50	86.9	49 - 117		
Anthracene	120-12-7	LCS	49.6		50	99.3	48 - 133		
Atrazine	1912-24-9	LCS	51.4		50	103	44 - 149		
Benzaldehyde	100-52-7	LCS	44.2		50	88.5	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	49.5		50	99	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	51		50	102	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	52.8		50	106	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	44.5		50	89	54 - 131		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Benzo(k)fluoranthene	207-08-9	LCS	52.2		50	104	52 - 130		
Biphenyl	92-52-4	LCS	38.6		50	77.1	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	49		50	98.1	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	45.7		50	91.4	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	46.1		50	92.3	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	58.4		50	117	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	62.8		50	126	50 - 137		
Caprolactam	105-60-2	LCS	21.6		50	43.1	5 - 118		
Carbazole	86-74-8	LCS	48.9		50	97.8	52 - 139		
Chrysene	218-01-9	LCS	49.8		50	99.6	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	45.6		50	91.1	56 - 130		
Dibenzofuran	132-64-9	LCS	44.3		50	88.5	39 - 133		
Diethylphthalate	84-66-2	LCS	53		50	106	45 - 132		
Dimethylphthalate	131-11-3	LCS	49.2		50	98.5	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	56.2		50	112	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	54.9		50	110	35 - 141		
Fluoranthene	206-44-0	LCS	49.5		50	98.9	49 - 132		
Fluorene	86-73-7	LCS	47.3		50	94.7	42 - 131		
Hexachlorobenzene	118-74-1	LCS	44.7		50	89.4	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	22.2		50	44.3	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	14.3		50	28.6	5 - 97		
Hexachloroethane	67-72-1	LCS	21.2		50	42.4	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	42.3		50	84.6	55 - 126		
Isophorone	78-59-1	LCS	48.6		50	97.2	45 - 129		
mp-Cresol	108394/106445	LCS	89.5		100	89.5	28 - 128		
Naphthalene	91-20-3	LCS	33.3		50	66.5	21 - 123		
Nitrobenzene	98-95-3	LCS	42.5		50	85.1	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	48.6		50	97.2	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	57.3		50	115	58 - 125		
o-Cresol	95-48-7	LCS	87.3		100	87.3	34 - 136		
Pentachlorophenol	87-86-5	LCS	110		100	110	41 - 149		
Phenanthrene	85-01-8	LCS	47.8		50	95.6	46 - 131		
Phenol	108-95-2	LCS	53.6		100	53.6	5 - 111		
Pyrene	129-00-0	LCS	53.6		50	107	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	95.3	100	95.3	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	42.1	50	84.3	24 - 116	
2-Fluorophenol	367-12-4	LCS	62.4	100	62.4	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	44	50	88.1	32 - 125	
Phenol-d5	4165-62-2	LCS	47.2	100	47.2	7 - 56	
Terphenyl-d14	98904-43-9	LCS	54.1	50	108	41 - 145	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1356894	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	

Duplicate 3920122 (DUP) 3392755004 (non-Project Sample) For QC Batch 1356894

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,1,1-Trichloroethane	71-55-6	DUP	0	0	RPD	0	(Max-)	ND
1,1,2,2-Tetrachloroethane	79-34-5	DUP	0	0	RPD	0	(Max-)	ND
1,1,2-Trichloroethane	79-00-5	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethane	75-34-3	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethene	75-35-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichlorobenzene	87-61-6	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichloropropane	96-18-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trichlorobenzene	120-82-1	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trimethylbenzene	95-63-6	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromo-3-chloropropane	96-12-8	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromoethane	106-93-4	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichlorobenzene	95-50-1	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloroethane	107-06-2	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloropropane	78-87-5	DUP	0	0	RPD	0	(Max-)	ND
1,3,5-Trimethylbenzene	108-67-8	DUP	0	0	RPD	0	(Max-)	ND
1,3-Dichlorobenzene	541-73-1	DUP	0	0	RPD	0	(Max-)	ND
1,4-Dichlorobenzene	106-46-7	DUP	0	0	RPD	0	(Max-)	ND
2-Butanone	78-93-3	DUP	0	0	RPD	0	(Max-)	ND
2-Hexanone	591-78-6	DUP	0	0	RPD	0	(Max-)	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	DUP	0	0	RPD	0	(Max-)	ND
Acetone	67-64-1	DUP	4.1797	3.3481	RPD	22.10	(Max-)	J
Benzene	71-43-2	DUP	0	0	RPD	0	(Max-)	ND
Bromochloromethane	74-97-5	DUP	0	0	RPD	0	(Max-)	ND
Bromodichloromethane	75-27-4	DUP	0	0	RPD	0	(Max-)	ND
Bromoform	75-25-2	DUP	0	0	RPD	0	(Max-)	ND
Bromomethane	74-83-9	DUP	0	0	RPD	0	(Max-)	ND
Carbon Disulfide	75-15-0	DUP	0	0	RPD	0	(Max-)	ND
Carbon Tetrachloride	56-23-5	DUP	0	0	RPD	0	(Max-)	ND
Chlorobenzene	108-90-7	DUP	0	0	RPD	0	(Max-)	ND
Chlorodibromomethane	124-48-1	DUP	0	0	RPD	0	(Max-)	ND
Chloroethane	75-00-3	DUP	0	0	RPD	0	(Max-)	ND
Chloroform	67-66-3	DUP	0.3559	0.3697	RPD	3.78	(Max-)	J
Chloromethane	74-87-3	DUP	0	0	RPD	0	(Max-)	ND
cis-1,2-Dichloroethene	156-59-2	DUP	0	0	RPD	0	(Max-)	ND
cis-1,3-Dichloropropene	10061-01-5	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
Cyclohexane	110-82-7	DUP	0	0	RPD	0	(Max-)	ND
Dichlorodifluoromethane	75-71-8	DUP	0	0	RPD	0	(Max-)	ND
Ethylbenzene	100-41-4	DUP	0	0	RPD	0	(Max-)	ND
Freon 113	76-13-1	DUP	0	0	RPD	0	(Max-)	ND
Isopropylbenzene	98-82-8	DUP	0	0	RPD	0	(Max-)	ND
Methyl acetate	79-20-9	DUP	0	0	RPD	0	(Max-)	ND
Methyl cyclohexane	108-87-2	DUP	1.3411	1.3175	RPD	1.78	(Max-)	
Methyl t-Butyl Ether	1634-04-4	DUP	0	0	RPD	0	(Max-)	ND
Methylene Chloride	75-09-2	DUP	0	0	RPD	0	(Max-)	ND
mp-Xylene	108383/106423	DUP	0	0	RPD	0	(Max-)	ND
o-Xylene	95-47-6	DUP	0	0	RPD	0	(Max-)	ND
Styrene	100-42-5	DUP	0	0	RPD	0	(Max-)	ND
Tetrachloroethene	127-18-4	DUP	0	0	RPD	0	(Max-)	ND
Toluene	108-88-3	DUP	0	0	RPD	0	(Max-)	ND
Total Xylenes	1330-20-7	DUP	0	0	RPD	0	(Max-)	ND
trans-1,2-Dichloroethene	156-60-5	DUP	0	0	RPD	0	(Max-)	ND
trans-1,3-Dichloropropene	10061-02-6	DUP	0	0	RPD	0	(Max-)	ND
Trichloroethene	79-01-6	DUP	0	0	RPD	0	(Max-)	ND
Trichlorofluoromethane	75-69-4	DUP	0	0	RPD	0	(Max-)	ND
Vinyl Chloride	75-01-4	DUP	0	0	RPD	0	(Max-)	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	DUP	30	30	99.9	62 - 133	
4-Bromofluorobenzene	460-00-4	DUP	30.3	30	101	79 - 114	
Dibromofluoromethane	1868-53-7	DUP	28.5	30	95.1	78 - 116	
Toluene-d8	2037-26-5	DUP	30.2	30	101	76 - 127	

Method Blank 3920056 (MB) Created on 12/18/2024 10:57 For QC Batch 1356894

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.4	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	28.2	30	93.9	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.1	30	97.1	78 - 116	
Toluene-d8	2037-26-5	BLK	30.6	30	102	76 - 127	

Lab Control Standard 3920057 (LCS) Created on 12/18/2024 10:57 For QC Batch 1356894

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	20.6		20	103	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	23.2		20	116	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.8		20	109	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.2		20	101	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.2		20	106	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.2		20	111	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22.4		20	112	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.8		20	119	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	21.8		20	109	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	21.3		20	107	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	22		20	110	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.9		20	104	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.5		20	97.6	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.7		20	104	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.8		20	109	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.5		20	102	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.7		20	103	81 - 116		
2-Butanone	78-93-3	LCS	104		100	104	50 - 152		
2-Hexanone	591-78-6	LCS	107		100	107	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	108		100	108	71 - 146		
Acetone	67-64-1	LCS	108		100	108	40 - 151		
Benzene	71-43-2	LCS	19.9		20	99.6	80 - 124		
Bromochloromethane	74-97-5	LCS	21.5		20	108	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.8		20	109	79 - 126		
Bromoform	75-25-2	LCS	21.6		20	108	70 - 123		
Bromomethane	74-83-9	LCS	17		20	84.9	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.8		20	109	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	18.4		20	91.9	62 - 132		
Chlorobenzene	108-90-7	LCS	20		20	100	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.3		20	96.7	77 - 122		
Chloroethane	75-00-3	LCS	18.8		20	94.1	51 - 142		
Chloroform	67-66-3	LCS	19.7		20	98.4	78 - 122		
Chloromethane	74-87-3	LCS	21.8		20	109	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.5		20	103	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.1		20	95.5	81 - 121		
Cyclohexane	110-82-7	LCS	20.9		20	104	66 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCS	20.8		20	104	17 - 166		
Ethylbenzene	100-41-4	LCS	20.1		20	101	80 - 124		
Freon 113	76-13-1	LCS	21.5		20	108	50 - 130		
Isopropylbenzene	98-82-8	LCS	23.6		20	118	73 - 129		
Methyl acetate	79-20-9	LCS	22.7		20	113	70 - 130		
Methyl cyclohexane	108-87-2	LCS	20.7		20	103	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	21.4		20	107	69 - 115		
Methylene Chloride	75-09-2	LCS	21.2		20	106	76 - 121		
mp-Xylene	108383/106423	LCS	40.2		40	100	79 - 125		
o-Xylene	95-47-6	LCS	20.2		20	101	79 - 124		
Styrene	100-42-5	LCS	19		20	95.1	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.5		20	97.6	72 - 124		
Toluene	108-88-3	LCS	20.6		20	103	80 - 125		
Total Xylenes	1330-20-7	LCS	60.4		60	101	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.6		20	103	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.2		20	95.8	78 - 126		
Trichloroethene	79-01-6	LCS	19.5		20	97.3	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	20.7		20	104	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.4		20	107	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	31.2	30	104	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.4	30	98	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30.4	30	101	78 - 116	
Toluene-d8	2037-26-5	LCS	30.7	30	102	76 - 127	

Matrix Spike 3920121 (MS) 3391836005 For QC Batch 1356894

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	23.7	0	20	118	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.5	0	20	117	74 - 135		
1,1,2-Trichloroethane	79-00-5	MS	23	0	20	115	82 - 126		
1,1-Dichloroethane	75-34-3	MS	22.7	0	20	113	78 - 124		
1,1-Dichloroethene	75-35-4	MS	24.7	0	20	123	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	MS	21.2	0	20	106	61 - 126		
1,2,3-Trichloropropane	96-18-4	MS	23	0	20	115	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	MS	22.7	0	20	113	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	MS	22.5	0	20	113	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	MS	21	0	20	105	59 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dibromoethane	106-93-4	MS	23.7	0	20	118	80 - 124		
1,2-Dichlorobenzene	95-50-1	MS	21.3	0	20	106	82 - 118		
1,2-Dichloroethane	107-06-2	MS	21	0	20	105	70 - 133		
1,2-Dichloropropane	78-87-5	MS	22.9	0	20	115	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	MS	22.7	0	20	113	76 - 125		
1,3-Dichlorobenzene	541-73-1	MS	20.7	0	20	104	81 - 118		
1,4-Dichlorobenzene	106-46-7	MS	20.8	0	20	104	81 - 116		
2-Butanone	78-93-3	MS	108	0	100	108	50 - 152		
2-Hexanone	591-78-6	MS	107	0	100	107	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	111	0	100	111	71 - 146		
Acetone	67-64-1	MS	101	0	100	101	40 - 151		
Benzene	71-43-2	MS	23.1	0.54	20	113	80 - 124		
Bromochloromethane	74-97-5	MS	22.8	0	20	114	73 - 117		
Bromodichloromethane	75-27-4	MS	23.6	0	20	118	79 - 126		
Bromoform	75-25-2	MS	20.7	0	20	103	70 - 123		
Bromomethane	74-83-9	MS	14.2	0	20	71.1	45 - 148		
Carbon Disulfide	75-15-0	MS	25.3	0.40	20	125	57 - 131		
Carbon Tetrachloride	56-23-5	MS	20.9	0	20	104	62 - 132		
Chlorobenzene	108-90-7	MS	21.7	0	20	108	85 - 117		
Chlorodibromomethane	124-48-1	MS	20	0	20	100	77 - 122		
Chloroethane	75-00-3	MS	42.9	0	20	215*	51 - 142		
Chloroform	67-66-3	MS	28.3	8	20	102	78 - 122		
Chloromethane	74-87-3	MS	22.6	0	20	113	38 - 156		
cis-1,2-Dichloroethene	156-59-2	MS	22.9	0	20	114	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	MS	19.5	0	20	97.6	81 - 121		
Cyclohexane	110-82-7	MS	24.7	0	20	123	66 - 130		
Dichlorodifluoromethane	75-71-8	MS	23.8	0	20	119	17 - 166		
Ethylbenzene	100-41-4	MS	22.5	0	20	112	80 - 124		
Freon 113	76-13-1	MS	24.9	0	20	125	50 - 130		
Isopropylbenzene	98-82-8	MS	24.9	0	20	124	73 - 129		
Methyl acetate	79-20-9	MS	21.1	0	20	105	70 - 130		
Methyl cyclohexane	108-87-2	MS	23.5	0	20	118	70 - 130		
Methyl t-Butyl Ether	1634-04-4	MS	22.6	0	20	113	69 - 115		
Methylene Chloride	75-09-2	MS	23.2	0	20	116	76 - 121		
mp-Xylene	108383/106423	MS	44	0	40	110	79 - 125		
o-Xylene	95-47-6	MS	22.1	0	20	110	79 - 124		
Styrene	100-42-5	MS	19.1	0	20	95.7	79 - 123		
Tetrachloroethene	127-18-4	MS	20.2	0	20	101	72 - 124		
Toluene	108-88-3	MS	22.7	0	20	113	80 - 125		
Total Xylenes	1330-20-7	MS	66.1	0	60	110	79 - 125		
trans-1,2-Dichloroethene	156-60-5	MS	23.2	0	20	116	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	MS	19.6	0	20	98.1	78 - 126		
Trichloroethene	79-01-6	MS	21.4	0	20	107	77 - 124		
Trichlorofluoromethane	75-69-4	MS	23.4	0	20	117	38 - 123		
Vinyl Chloride	75-01-4	MS	23.8	0	20	119	27 - 138		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	33	30	110	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	27.5	30	91.6	79 - 114	
Dibromofluoromethane	1868-53-7	MS	31.4	30	105	78 - 116	
Toluene-d8	2037-26-5	MS	30.5	30	102	76 - 127	

QC Batch

QC Batch	1357409	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3391836008	3391836009	3391836010	3391836011
3391836012	3391836013	3391836014	3391836015

Matrix Spike 3921007 (MS) 3392038005 (non-Project Sample) For QC Batch 1357409

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921008 (MSD) 3392038005 (non-Project Sample) For QC Batch 1357409

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	22.9	0	20	115	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	22.1	0	20	111	66 - 130	RPD 3.41 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	21.8	0	20	109	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	23.5	0	20	118	74 - 135	RPD 7.46 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	22.7	0	20	114	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	21.9	0	20	110	82 - 126	RPD 3.60 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	22.1	0	20	111	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	21.1	0	20	106	78 - 124	RPD 4.50 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	23.8	0	20	119	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	22.8	0	20	114	63 - 128	RPD 4.26 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	20.4	0	20	102	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	21.9	0	20	110	61 - 126	RPD 7.18 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	21.3	0	20	107	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	22.4	0	20	112	75 - 132	RPD 4.74 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	22	0	20	110	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	23.7	0	20	119	67 - 123	RPD 7.37 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.9	0	20	109	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	23.3	0	20	116	76 - 125	RPD 6.36 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	19.8	0	20	98.9	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	21.2	0	20	106	59 - 133	RPD 6.75 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	22.6	0	20	113	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	21.5	0	20	107	80 - 124	RPD 5 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	20.6	0	20	103	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	21.7	0	20	108	82 - 118	RPD 5.30 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	20.7	0	20	104	70 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dichloroethane	107-06-2	MSD	19.6	0	20	98.1	70 - 133	RPD 5.32 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	22.3	0	20	111	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	21.1	0	20	106	81 - 127	RPD 5.31 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	22.1	0	20	111	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	23.4	0	20	117	76 - 125	RPD 5.70 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	20.4	0	20	102	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	21.5	0	20	107	81 - 118	RPD 5.06 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	20.6	0	20	103	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	21.7	0	20	109	81 - 116	RPD 5.42 (Max-15)	
2-Butanone	78-93-3	MS	99.2	0	100	99.2	50 - 152		
2-Butanone	78-93-3	MSD	95.7	0	100	95.7	50 - 152	RPD 3.51 (Max-16)	
2-Hexanone	591-78-6	MS	102	0	100	102	65 - 154		
2-Hexanone	591-78-6	MSD	98.5	0	100	98.5	65 - 154	RPD 3.04 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	106	0	100	106	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	102	0	100	102	71 - 146	RPD 3.86 (Max-16)	
Acetone	67-64-1	MS	97.3	0	100	97.3	40 - 151		
Acetone	67-64-1	MSD	98	0	100	98	40 - 151	RPD 0.73 (Max-40)	
Benzene	71-43-2	MS	21.8	0	20	109	80 - 124		
Benzene	71-43-2	MSD	20.9	0	20	104	80 - 124	RPD 4.56 (Max-26)	
Bromochloromethane	74-97-5	MS	22.3	0	20	111	73 - 117		
Bromochloromethane	74-97-5	MSD	21.5	0	20	108	73 - 117	RPD 3.20 (Max-19)	
Bromodichloromethane	75-27-4	MS	22.4	0	20	112	79 - 126		
Bromodichloromethane	75-27-4	MSD	21.9	0	20	110	79 - 126	RPD 2.23 (Max-16)	
Bromoform	75-25-2	MS	19.7	0	20	98.3	70 - 123		
Bromoform	75-25-2	MSD	21.5	0	20	108	70 - 123	RPD 8.97 (Max-16)	
Bromomethane	74-83-9	MS	16.6	0	20	83.1	45 - 148		
Bromomethane	74-83-9	MSD	17.3	0	20	86.6	45 - 148	RPD 4.12 (Max-26)	
Carbon Disulfide	75-15-0	MS	23.6	0	20	118	57 - 131		
Carbon Disulfide	75-15-0	MSD	22.8	0	20	114	57 - 131	RPD 3.64 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	20.5	0	20	102	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	19.5	0	20	97.5	62 - 132	RPD 4.88 (Max-17)	
Chlorobenzene	108-90-7	MS	21.3	0	20	106	85 - 117		
Chlorobenzene	108-90-7	MSD	20.5	0	20	103	85 - 117	RPD 3.67 (Max-15)	
Chlorodibromomethane	124-48-1	MS	19.5	0	20	97.4	77 - 122		
Chlorodibromomethane	124-48-1	MSD	18.9	0	20	94.3	77 - 122	RPD 3.24 (Max-15)	
Chloroethane	75-00-3	MS	22.6	0	20	113	51 - 142		
Chloroethane	75-00-3	MSD	21.6	0	20	108	51 - 142	RPD 4.57 (Max-24)	
Chloroform	67-66-3	MS	21.1	0.33	20	104	78 - 122		
Chloroform	67-66-3	MSD	20.4	0.33	20	101	78 - 122	RPD 2.98 (Max-16)	
Chloromethane	74-87-3	MS	21.2	0	20	106	38 - 156		
Chloromethane	74-87-3	MSD	21.3	0	20	107	38 - 156	RPD 0.76 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	22.5	0	20	112	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	21.6	0	20	108	78 - 125	RPD 4.09 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.4	0	20	96.9	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	18.6	0	20	93.2	81 - 121	RPD 3.91 (Max-16)	
Cyclohexane	110-82-7	MS	23.6	0	20	118	66 - 130		
Cyclohexane	110-82-7	MSD	22.5	0	20	113	66 - 130	RPD 4.63 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	22	0	20	110	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	21.2	0	20	106	17 - 166	RPD 3.81 (Max-24)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Ethylbenzene	100-41-4	MS	22.3	0	20	111	80 - 124		
Ethylbenzene	100-41-4	MSD	21.3	0	20	107	80 - 124	RPD 4.27 (Max-19)	
Freon 113	76-13-1	MS	24.3	0	20	122	50 - 130		
Freon 113	76-13-1	MSD	23	0	20	115	50 - 130	RPD 5.51 (Max-26)	
Isopropylbenzene	98-82-8	MS	24.2	0	20	121	73 - 129		
Isopropylbenzene	98-82-8	MSD	25.6	0	20	128	73 - 129	RPD 5.85 (Max-18)	
Methyl acetate	79-20-9	MS	20.7	0	20	104	70 - 130		
Methyl acetate	79-20-9	MSD	19	0	20	94.9	70 - 130	RPD 8.79 (Max-18)	
Methyl cyclohexane	108-87-2	MS	23.4	0	20	117	70 - 130		
Methyl cyclohexane	108-87-2	MSD	22.7	0	20	114	70 - 130	RPD 2.66 (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	21.4	0	20	107	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	20.8	0	20	104	69 - 115	RPD 2.94 (Max-20)	
Methylene Chloride	75-09-2	MS	22.1	0	20	110	76 - 121		
Methylene Chloride	75-09-2	MSD	21.5	0	20	108	76 - 121	RPD 2.44 (Max-17)	
mp-Xylene	108383/106423	MS	44.2	0	40	111	79 - 125		
mp-Xylene	108383/106423	MSD	42.8	0	40	107	79 - 125	RPD 3.33 (Max-21)	
o-Xylene	95-47-6	MS	22	0	20	110	79 - 124		
o-Xylene	95-47-6	MSD	21.1	0	20	106	79 - 124	RPD 4.25 (Max-19)	
Styrene	100-42-5	MS	18.5	0	20	92.5	79 - 123		
Styrene	100-42-5	MSD	19.7	0	20	98.6	79 - 123	RPD 6.42 (Max-16)	
Tetrachloroethene	127-18-4	MS	20.6	0	20	103	72 - 124		
Tetrachloroethene	127-18-4	MSD	20	0	20	99.9	72 - 124	RPD 2.89 (Max-38)	
Toluene	108-88-3	MS	22.3	0	20	112	80 - 125		
Toluene	108-88-3	MSD	21.5	0	20	107	80 - 125	RPD 3.75 (Max-20)	
Total Xylenes	1330-20-7	MS	66.2	0	60	110	79 - 125		
Total Xylenes	1330-20-7	MSD	63.9	0	60	106	79 - 125	RPD 3.63 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	22.6	0	20	113	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	21.7	0	20	108	71 - 122	RPD 3.87 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	19.5	0	20	97.5	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	18.7	0	20	93.7	78 - 126	RPD 3.93 (Max-18)	
Trichloroethene	79-01-6	MS	20.6	0	20	103	77 - 124		
Trichloroethene	79-01-6	MSD	20.1	0	20	100	77 - 124	RPD 2.81 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	23.1	0	20	115	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	22	0	20	110	38 - 123	RPD 4.90 (Max-23)	
Vinyl Chloride	75-01-4	MS	22.5	0	20	112	27 - 138		
Vinyl Chloride	75-01-4	MSD	21.8	0	20	109	27 - 138	RPD 2.98 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	32.5	30	108	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	30.3	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	27.3	30	90.9	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	29.1	30	96.9	79 - 114	
Dibromofluoromethane	1868-53-7	MS	31	30	103	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	29	30	96.6	78 - 116	
Toluene-d8	2037-26-5	MS	30.5	30	102	76 - 127	
Toluene-d8	2037-26-5	MSD	29.3	30	97.6	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Method Blank 3920883 (MB) Created on 12/19/2024 10:56 For QC Batch 1357409

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.1	30	107	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.8	30	99.4	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	30.7	30	102	78 - 116	
Toluene-d8	2037-26-5	BLK	32.4	30	108	76 - 127	

Lab Control Standard 3920884 (LCS) Created on 12/19/2024 10:56 For QC Batch 1357409

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21		20	105	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.8		20	114	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.2		20	106	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.9		20	99.6	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.5		20	108	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.3		20	112	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22.1		20	111	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.1		20	120	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22.6		20	113	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	21.6		20	108	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	21.3		20	106	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.5		20	108	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	18.6		20	93.2	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.3		20	102	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.7		20	113	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	21.1		20	106	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.3		20	106	81 - 116		
2-Butanone	78-93-3	LCS	99		100	99	50 - 152		
2-Hexanone	591-78-6	LCS	100		100	100	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	101		100	101	71 - 146		
Acetone	67-64-1	LCS	99.2		100	99.2	40 - 151		
Benzene	71-43-2	LCS	20		20	100	80 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	20.6		20	103	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.3		20	106	79 - 126		
Bromoform	75-25-2	LCS	21.5		20	107	70 - 123		
Bromomethane	74-83-9	LCS	16.7		20	83.4	45 - 148		
Carbon Disulfide	75-15-0	LCS	22		20	110	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	18.4		20	91.8	62 - 132		
Chlorobenzene	108-90-7	LCS	19.9		20	99.4	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18.6		20	92.9	77 - 122		
Chloroethane	75-00-3	LCS	21		20	105	51 - 142		
Chloroform	67-66-3	LCS	19.3		20	96.3	78 - 122		
Chloromethane	74-87-3	LCS	20.1		20	100	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.4		20	102	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.6		20	93.2	81 - 121		
Cyclohexane	110-82-7	LCS	21		20	105	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	20.6		20	103	17 - 166		
Ethylbenzene	100-41-4	LCS	20.6		20	103	80 - 124		
Freon 113	76-13-1	LCS	22		20	110	50 - 130		
Isopropylbenzene	98-82-8	LCS	24.9		20	124	73 - 129		
Methyl acetate	79-20-9	LCS	21.2		20	106	70 - 130		
Methyl cyclohexane	108-87-2	LCS	21.4		20	107	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.5		20	102	69 - 115		
Methylene Chloride	75-09-2	LCS	20.7		20	103	76 - 121		
mp-Xylene	108383/106423	LCS	40.6		40	101	79 - 125		
o-Xylene	95-47-6	LCS	20.2		20	101	79 - 124		
Styrene	100-42-5	LCS	19.4		20	97.1	79 - 123		
Tetrachloroethene	127-18-4	LCS	20		20	100	72 - 124		
Toluene	108-88-3	LCS	20.7		20	103	80 - 125		
Total Xylenes	1330-20-7	LCS	60.8		60	101	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.5		20	102	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	18.6		20	92.9	78 - 126		
Trichloroethene	79-01-6	LCS	19.1		20	95.3	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21.1		20	106	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.5		20	108	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.8	30	99.5	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	28.9	30	96.5	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29	30	96.5	78 - 116	
Toluene-d8	2037-26-5	LCS	29.3	30	97.7	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1354602	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Matrix Spike 3917271 (MS) 3391762006 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917272 (MSD) 3391762006 (non-Project Sample) For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	45.6	35.40	10	102	80 - 120		
Chloride	Cl	MSD	45.7	35.40	10	103	80 - 120	RPD 0.17 (Max-20)	
Nitrate-N	NO3	MS	1.5	0.51	1	98.5	80 - 120		
Nitrate-N	NO3	MSD	1.5	0.51	1	99	80 - 120	RPD 0.33 (Max-20)	
Sulfate	SO4	MS	17.3	6.20	10	111	80 - 120		
Sulfate	SO4	MSD	17.4	6.20	10	112	80 - 120	RPD 0.29 (Max-20)	

Matrix Spike 3917275 (MS) 3391752001 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	3.7	1.20	2.50	101	80 - 120		

Matrix Spike 3917278 (MS) 3391682009 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917279 (MSD) 3391682009 (non-Project Sample) For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	5.5	2.70	2.50	111	80 - 120		
Nitrate-N	NO3	MSD	5.5	2.70	2.50	110	80 - 120	RPD 0.38 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3917282 (MS) 3391809001 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	20.5	8.50	10	120	80 - 120		
Nitrate-N	NO3	MS	1.6	0.53	1	108	80 - 120		
Sulfate	SO4	MS	19	6.60	10	124*	80 - 120		

Matrix Spike 3917285 (MS) 3391823001 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917286 (MSD) 3391823001 (non-Project Sample) For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	281	256	25	NC	80 - 120		
Chloride	Cl	MSD	279	256	25	NC	80 - 120	RPD 0.78 (Max-20)	
Sulfate	SO4	MS	203	177	25	NC	80 - 120		
Sulfate	SO4	MSD	202	177	25	NC	80 - 120	RPD 0.81 (Max-20)	

Matrix Spike 3917315 (MS) 3391890002 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917316 (MSD) 3391890002 (non-Project Sample) For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	53.3	41	10	NC	80 - 120		
Sulfate	SO4	MSD	53.4	41	10	NC	80 - 120	RPD 0.32 (Max-20)	

Matrix Spike 3917400 (MS) 3391888001 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3917403 (MS) 3391912001 (non-Project Sample) For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917404 (MSD) 3391912001 (non-Project Sample) For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	15.6	2.20	10	133*	80 - 120		
Chloride	Cl	MSD	15.7	2.20	10	134*	80 - 120	RPD 0.63 (Max-20)	

Method Blank 3916918 (MB) Created on 12/12/2024 06:39 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3916919 (LCS) Created on 12/12/2024 06:39 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.5		50	101	90 - 110		
Nitrate-N	NO3	LCS	5		5	100	90 - 110		
Sulfate	SO4	LCS	50.5		50	101	90 - 110		

Lab Control Standard 3917273 (LCS) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.2		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	103	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Method Blank 3917274 (MB) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917276 (LCS) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.5		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	51.7		50	103	90 - 110		

Method Blank 3917277 (MB) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917280 (LCS) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

Method Blank 3917281 (MB) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917283 (LCS) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52		50	104	90 - 110		

Method Blank 3917284 (MB) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917287 (LCS) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.7		50	105	90 - 110		

Method Blank 3917288 (MB) Created on 12/12/2024 11:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3917312 (MS) 3391836013 For QC Batch 1354602

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	93.2	63.20	25	120	80 - 120		
Nitrate-N	NO3	MS	40.1	37.90	2.50	NC	80 - 120		
Sulfate	SO4	MS	323	299	25	NC	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3917313 (LCS) Created on 12/12/2024 12:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.1		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.7		50	105	90 - 110		

Method Blank 3917314 (MB) Created on 12/12/2024 12:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917317 (LCS) Created on 12/12/2024 12:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.3		50	105	90 - 110		

Method Blank 3917318 (MB) Created on 12/12/2024 12:18 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917401 (LCS) Created on 12/12/2024 14:47 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	52		50	104	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3917402 (MB) Created on 12/12/2024 14:47 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917405 (LCS) Created on 12/12/2024 14:47 For QC Batch 1354602

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	52.3		50	105	90 - 110		

Method Blank 3917406 (MB) Created on 12/12/2024 14:47 For QC Batch 1354602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1354716	Prep Method	N/A
Date	N/A	Analysis Method	SM2130B-2011
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Duplicate 3917291 (DUP) 3391762010 (non-Project Sample) For QC Batch 1354716

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	8.50	8.10	RPD	4.82 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3917289 (MB) Created on 12/12/2024 11:48 For QC Batch 1354716

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3917292 (MB) Created on 12/12/2024 11:48 For QC Batch 1354716

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3917294 (DUP) 3391836006 For QC Batch 1354716

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)				Qualifiers
Turbidity	Turb	DUP	160	160	RPD	0	(Max-10)	

Method Blank 3917295 (MB) Created on 12/12/2024 11:48 For QC Batch 1354716

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1355194	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Method Blank 3917752 (MB) Created on 12/13/2024 09:19 For QC Batch 1355194

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3917753 (LCS) Created on 12/13/2024 09:19 For QC Batch 1355194

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	513		500	103	90 - 110		

Duplicate 3917967 (DUP) 3391836002 For QC Batch 1355194

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	1414	1424	RPD 0.70	(Max-5)	

Duplicate 3917968 (DUP) 3391836003 For QC Batch 1355194

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	1404	1378	RPD 1.87	(Max-5)	

QC Batch

QC Batch	1355591	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3391836002	3391836003	3391836007	3391836011
3391836012	3391836014		

Matrix Spike 3918175 (MS) 3392229002 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918176 (MSD) 3392229002 (non-Project Sample) For QC Batch 1355591

Matrix Spike 3918179 (MS) 3391543002 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3918186 (MS) 3391888001 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	590	553	50	NC	80 - 120		

Matrix Spike 3918206 (MS) 3392316006 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918207 (MSD) 3392316006 (non-Project Sample) For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	36.1	7.50	25	114	80 - 120		
Chloride	Cl	MSD	36.3	7.50	25	115	80 - 120	RPD 0.53 (Max-20)	
Nitrate-N	NO3	MS	3.8	1.20	2.50	104	80 - 120		
Nitrate-N	NO3	MSD	3.8	1.20	2.50	104	80 - 120	RPD 0.24 (Max-20)	

Method Blank 3918161 (MB) Created on 12/14/2024 06:33 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918162 (LCS) Created on 12/14/2024 06:33 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	50.9		50	102	90 - 110		

Lab Control Standard 3918177 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.4		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3918178 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918180 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

Method Blank 3918181 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3918182 (MS) 3391836014 For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918183 (MSD) 3391836014 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	63.3	9	50	109	80 - 120		
Chloride	Cl	MSD	63.2	9	50	108	80 - 120	RPD 0.18 (Max-20)	
Nitrate-N	NO3	MS	44.6	40.30	5	NC	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MSD	44.2	40.30	5	NC	80 - 120	RPD 0.71 (Max-20)	
Sulfate	SO4	MS	637	601	50	NC	80 - 120		
Sulfate	SO4	MSD	633	601	50	NC	80 - 120	RPD 0.67 (Max-20)	

Lab Control Standard 3918184 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.1		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.9		50	106	90 - 110		

Method Blank 3918185 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918187 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.5		50	105	90 - 110		

Method Blank 3918188 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3918208 (LCS) Created on 12/14/2024 10:31 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	53		50	106	90 - 110		

Method Blank 3918209 (MB) Created on 12/14/2024 10:31 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1356012	Prep Method	N/A
Date	N/A	Analysis Method	S4500HB-11
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Duplicate 3918356 (DUP) 3391293006 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	1158.80	1162.80	RPD	0.34 (Max-20)	
pH	PH	DUP					

Duplicate 3918360 (DUP) 3391582001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	832.80	813.20	RPD	2.38 (Max-20)	
pH	PH	DUP	8.2010	8.1320	RPD	0.84 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3918364 (DUP) 3391582010 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	668	687.60	RPD	2.89	(Max-20)	
pH	PH	DUP	8.1140	8.0550	RPD	0.73	(Max-10)	

Duplicate 3918368 (DUP) 3391606001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	3.72	4.92	RPD	27.80*	(Max-20)	ND
pH	PH	DUP	6.5810	6.5630	RPD	0.27	(Max-10)	

Duplicate 3918372 (DUP) 3391609001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	2.20	2.56	RPD	15.10	(Max-20)	ND
pH	PH	DUP	4.7120	4.7080	RPD	0.08	(Max-10)	

Duplicate 3918376 (DUP) 3391692001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	114.88	115.60	RPD	0.62	(Max-20)	
pH	PH	DUP						

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3918380 (DUP) 3391762001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	320.44	320.76	RPD	0.10	(Max-20)	
pH	PH	DUP	8.2250	8.2180	RPD	0.09	(Max-10)	

Duplicate 3918384 (DUP) 3391762011 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	58.76	58.12	RPD	1.10	(Max-20)	
pH	PH	DUP	7.9750	7.9780	RPD	0.04	(Max-10)	

Duplicate 3918396 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP						
pH	PH	DUP	8.2860	8.2660	RPD	0.24	(Max-10)	

Duplicate 3918400 (DUP) 3391970001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	152.96	153.16	RPD	0.13	(Max-20)	
pH	PH	DUP	8.4450	8.4660	RPD	0.25	(Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3918404 (DUP) 3391293001 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	726.40	747.60	RPD	2.88 (Max-20)	
pH	PH	DUP					

Duplicate 3918405 (DUP) 3391293002 (non-Project Sample) For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	1240	1234	RPD	0.49 (Max-20)	
pH	PH	DUP					

Method Blank 3918354 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918358 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918362 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3918366 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918370 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918374 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918378 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918382 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918386 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3918388 (DUP) 3391836002 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	293.60	295.08	RPD	0.50	(Max-20)	
pH	PH	DUP	8.2750	8.2740	RPD	0.01	(Max-10)	

Method Blank 3918390 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3918392 (DUP) 3391836012 For QC Batch 1356012

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP						
pH	PH	DUP	8.2550	8.2720	RPD	0.21	(Max-10)	

Method Blank 3918394 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	6	mg/L	5	

Method Blank 3918398 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3918402 (MB) Created on 12/16/2024 01:54 For QC Batch 1356012

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1356895	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3391836001	3391836003	3391836004	3391836005
3391836006	3391836007	3391836008	3391836009
3391836010	3391836011	3391836012	3391836013
3391836014			

Duplicate 3920067 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	213.12	213.36	RPD	0.11 (Max-20)	

Duplicate 3920071 (DUP) 3391890009 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	169.28	168.08	RPD	0.71 (Max-20)	

Duplicate 3920075 (DUP) 3391971001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	233.76	234.64	RPD	0.38 (Max-20)	

Duplicate 3920079 (DUP) 3392026001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	90.28	90.76	RPD	0.53 (Max-20)	

Duplicate 3920083 (DUP) 3392026002 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	79.32	78.08	RPD	1.58 (Max-20)	

Duplicate 3920087 (DUP) 3392161001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3920091 (DUP) 3392161011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			ND

Duplicate 3920095 (DUP) 3392316001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3920099 (DUP) 3392379005 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3920103 (DUP) 3392402001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3920107 (DUP) 3392412001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			ND

Method Blank 3920061 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3920063 (DUP) 3391836012 For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	188.44	185.20	RPD	1.73 (Max-20)	

Method Blank 3920065 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920069 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920073 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920077 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920081 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920085 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3920089 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920093 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920097 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920101 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920105 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3920109 (MB) Created on 12/18/2024 11:07 For QC Batch 1356895

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1357374	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Method Blank 3920792 (MB) Created on 12/19/2024 09:05 For QC Batch 1357374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3920793 (DUP) 3391836001 For QC Batch 1357374

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	47	35	RPD 29.30* (Max-20)	

Method Blank 3920795 (MB) Created on 12/19/2024 09:05 For QC Batch 1357374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3920796 (DUP) 3391836011 For QC Batch 1357374

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	0	0	RPD 0 (Max-20)	ND

Method Blank 3920798 (MB) Created on 12/19/2024 09:05 For QC Batch 1357374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1359708	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3391836001	3391836002	3391836003	3391836004
3391836005	3391836006	3391836007	3391836008
3391836009	3391836010	3391836011	3391836012
3391836013	3391836014		

Duplicate 3922545 (DUP) 3391762007 (non-Project Sample) For QC Batch 1359708

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)		Qualifiers
Specific Conductance	Cond	DUP	300	257	RPD 15.40* (Max-10)	

Duplicate 3922551 (DUP) 3393173002 (non-Project Sample) For QC Batch 1359708

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)		Qualifiers
Specific Conductance	Cond	DUP	942	937	RPD 0.53 (Max-10)	

Duplicate 3922547 (DUP) 3391836003 For QC Batch 1359708

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)		Qualifiers
Specific Conductance	Cond	DUP	1849	1847	RPD 0.11 (Max-10)	

Duplicate 3922549 (DUP) 3391836013 For QC Batch 1359708

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No	Result (umhos/cm)	Orig. Result (umhos/cm)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	1527	1527	RPD	0	(Max-10)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391836001	MW-25	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
3391836002	MW-24	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356012
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
		N/A	N/A	N/A		SW846 9056A	1355591
3391836003	MW-24-DUP	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
		N/A	N/A	N/A		SW846 9056A	1355591
3391836004	MW-20	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391836005	MW-1	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
3391836006	MW-4	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
3391836007	MW-5S	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1356894
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
		N/A	N/A	N/A		SW846 9056A	1355591
3391836008	MW-18	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362256
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1355095	12/13/2024 09:38	ANN	SW846 6010C	1362566
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391836009	MW-3	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356219	12/16/2024 09:55	EJH	SW846 8270E	1356578
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
3391836010	MW-7	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356408	12/17/2024 07:40	AJN	SW846 7470A	1356472
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
3391836011	MW-21	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
		N/A	N/A	N/A		SW846 9056A	1355591
3391836012	MW-5D	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
		N/A	N/A	N/A		SW846 9056A	1355591

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3391836013	MW-23	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
3391836014	MW-38D	SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360723
		SW846 3015A	1355096	12/13/2024 13:28	ANN	SW846 6010C	1360780
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356093	12/16/2024 07:57	AJN	SW846 7470A	1356296
		SW846 7470A	1356194	12/16/2024 07:57	AJN	SW846 7470A	1356299
		SW846 3510C	1356521	12/17/2024 15:30	BMP	SW846 8270E	1356957
		N/A	N/A	N/A		SW846 8260D	1357409
		N/A	N/A	N/A		S4500HB-11	1356012
		N/A	N/A	N/A		SM2130B-2011	1354716
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1356895
		N/A	N/A	N/A		SM2540C-15	1355194
		N/A	N/A	N/A		SW846 9050A	1359708
		N/A	N/A	N/A		SW846 9056A	1354602
		N/A	N/A	N/A		SW846 9056A	1355591
3391836015	TB-42	N/A	N/A	N/A		SW846 8260D	1357409

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3391836 Logged By: EXP PM: EXP — 1 of 2

ALS Quo

Client Name: Michael Baker Intl.

Address: 100 Airside Drive Moon Twp., PA

Contact: C. Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

	Container Type	Container Size	Preservative	Analysis / Method Requested
1	G	3 40 ml	HCl	VOCs 8260
2	G	1 500 ml	UNP	SVOCs 8270
3	P	4 125 ml	HNO3 MJE 12/12/24	Total Metals + Hg 6010/7471B
4	P	2 1L	UNP	Diss. Metals + Hg 6010/7471B
5				Gen. Chem.

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.	Enter Number of Containers Per Sample or Field Results Below.
1	MW-25	12/11/24	950		G	GW	X3	X1	X2	X2	X2	MJE 12/12/24
2	MW-24		1115				X	X	X	X	X	
3	MW-24-DUP		1130				X	X	X	X	X	
4	MW-20		1245				X	X	X	X	X	
5	MW-1		0910				X	X	X	X	X	
6	MW-4		1050				X	X	X	X	X	
7	MW-5S		1220				X	X	X	X	X	
8	MW-18		0955				X	X	X	X	X	
9	MW-3		1125				X	X	X	X	X	
10	MW-7		1315				X	X	XL	X	XS	

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Temp Taken By: Therm ID: WO Temp (°C) 1°

Receipt Info Y N NA

Cooler Cu Temp By: MJE | WO Temp (°C) 1° | Therm ID 569

Sample C

Received

Coolers &

Correct C

Sample La

Adequate

VOA only:

NJ ≤ 4 d

Courier/Tra

Receipt Info Completed By: MJE

Cooler Custody Seal Intact	Y N	NA
Sample Custody Seal Intact	Y N	NA
Received on Ice	Y N	NA
Cooler & Samples Intact	Y N	
Correct Containers Provided	Y N	
Sample Label/COC Agree	Y N	
Adequate Sample Volumes	Y N	
CR6 Samples Filtered	Y N	NA
OP Samples Filtered	Y N	NA
VOA Trip Blank	Y N	NA
NJ≤4 Days?	Y N	
Rad Screen (uCi)	—	
Courier/Tracking #:	283132306474	
SDWA Compliance	Y N	
PWSID		
WV Containers 0-6°C	Y N	NA

tions? NO YES If YES, list below:

Client contact:

Sample(s) Reportabl SDWA St PWSID #

PWS Contact: PWS Phone #:

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/11/24	1800	1	Dave Gaviglia / MBI	2	Fedex
12/12/24	904	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ]

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab C=Composite **Matrix - A=Air, D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste, S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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Rev 07.06.2023

283132306474

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Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 2 of 2

ALS Quote #:

Client Name: Michael Baker Intl.

Address: 100 Airside Drive
Moon Twp., PA

Contact: C. Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

	Container Type	Container Size	Preservative
1	G	3 40 ml	HCl ~~HNO3~~ MJE 12/12/24
2	G	1 500 ml	~~HNO3~~
3	P	4 125 ml	HNO3
4	P	2 1L	~~HNO3~~

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.					
	Enter Number of Containers Per Sample or Field Results Below.															
1	MW-21	12/11/24	1555		G	GW	3	X	X	X	X	MJE 12/12/24				
2	MW-5D	↓	1540		↓	↓	X	X	X	X	X					
3	MW-23		1525				X	X	X	X	X					
4	MW-38D		1630				X	X	X	X	X					
5	TB-42	—	—		—		X									
6																
7																
8																
9																
10																

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/11/24	1800	1	Dave Gaviglia / MBI	2	Fedex
12/12/24	904	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Receipt Information (completed by Receiving Lab)

Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N

Courier/Tracking #

Deviations? NO YES

If YES, list below:

Client contact:

Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)

Reportable SDWA Sample(s)? Y N New Source? Y N

SDWA State of Origin? New Source Contact:

PWSID #

PWS Contact: PWS Phone #:

SDWA Sample Type Key: D=Distribution E=Entry Point
R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] ____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] ____ other

* G=Grab C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

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Rev 07.06.2023

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3392161
Report ID 380819 on 1/11/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 13, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3392161001	MW-33	Ground Water	12/12/2024 09:39	12/13/2024 08:54	CBC	Collected By Client
3392161002	MW-32	Ground Water	12/12/2024 11:15	12/13/2024 08:54	CBC	Collected By Client
3392161003	MW-19S	Ground Water	12/12/2024 09:50	12/13/2024 08:54	CBC	Collected By Client
3392161004	MW-19D	Ground Water	12/12/2024 11:25	12/13/2024 08:54	CBC	Collected By Client
3392161005	MW-11S	Ground Water	12/12/2024 09:40	12/13/2024 08:54	CBC	Collected By Client
3392161006	MW-11D	Ground Water	12/12/2024 10:55	12/13/2024 08:54	CBC	Collected By Client
3392161007	MW-11D-Dup	Ground Water	12/12/2024 11:10	12/13/2024 08:54	CBC	Collected By Client
3392161008	MW-31	Ground Water	12/12/2024 14:30	12/13/2024 08:54	CBC	Collected By Client
3392161009	MW-29	Ground Water	12/12/2024 15:10	12/13/2024 08:54	CBC	Collected By Client
3392161010	MW-8S	Ground Water	12/12/2024 14:30	12/13/2024 08:54	CBC	Collected By Client
3392161011	MW-8D	Ground Water	12/12/2024 15:45	12/13/2024 08:54	CBC	Collected By Client
3392161012	Trip Blank	Ground Water	12/12/2024 15:45	12/13/2024 08:54	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	Bromomethane was recovered below the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift was reported at -25.64%. Acceptable limits are +/-20%.
2	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 38.4 and the control limits were 41 to 145. This result was reported at a dilution of 1.
3	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
4	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
5	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
6	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 36.7 and the control limits were 41 to 145. This result was reported at a dilution of 1.
7	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 121 and the control limits were 80 to 120.
8	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 134 and the control limits were 80 to 120.
9	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 133 and the control limits were 80 to 120.
10	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 131 and the control limits were 80 to 120.
11	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 123 and the control limits were 80 to 120.
12	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 40.7 and the control limits were 41 to 145. This result was reported at a dilution of 1.
13	The surrogate 2-Fluorophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 10 to 85. This result was reported at a dilution of 100.
14	The surrogate Phenol-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 7 to 56. This result was reported at a dilution of 100.
15	The surrogate Nitrobenzene-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 32 to 125. This result was reported at a dilution of 100.
16	The surrogate 2-Fluorobiphenyl for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 24 to 116. This result was reported at a dilution of 100.
17	The surrogate 2,4,6-Tribromophenol for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 23 to 131. This result was reported at a dilution of 100.
18	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 41 to 145. This result was reported at a dilution of 100.
19	The surrogate Terphenyl-d14 for method SW846 8270E was outside of control limits. The % Recovery was reported as 37 and the control limits were 41 to 145. This result was reported at a dilution of 1.

Detected Results Summary

Client Sample ID	MW-33	Collected	12/12/2024 09:39
Lab Sample ID	3392161001	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.042	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.041	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	146	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	145	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0050J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0043J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.087	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0063J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.19	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.19	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	39.1	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	39.0	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.025	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.025	mg/L	0.0056	0.0020	SW846 6010C	#
Nickel, Dissolved	0.15	mg/L	0.022	0.0073	SW846 6010C	#
Potassium, Dissolved	4.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	4.6	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.064	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.061	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	167	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	167	mg/L	0.56	0.18	SW846 6010C	#
Zinc, Dissolved	0.0076J	mg/L	0.022	0.0073	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	6	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	203	mg/L	5	5	SM2320B-2011	#
Chloride	114	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	18.1	mg/L	2.5	0.80	SW846 9056A	#
pH	8.25	pH_Units			S4500HB-11	#
Specific Conductance	1640	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	442	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1210	mg/L	25	25	SM2540C-15	#
Turbidity	1.0	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-32	Collected	12/12/2024 11:15
Lab Sample ID	3392161002	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Total	0.0077J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.0070J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0058J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.076	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.075	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	201	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	199	mg/L	0.11	0.036	SW846 6010C	#
Iron, Dissolved	1.1	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	1.2	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	39.5	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	39.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.68	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.70	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	15.0	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	15.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	118	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	116	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Naphthalene	0.70J	ug/L	1.5	0.65	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	17	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	331	mg/L	50	50	SM2320B-2011	#
Chloride	217	mg/L	5.0	2.2	SW846 9056A	#
pH	8.32	pH_Units			S4500HB-11	#
Specific Conductance	1660	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	148	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1050	mg/L	25	25	SM2540C-15	#
Turbidity	9.1	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-19S	Collected	12/12/2024 09:50
Lab Sample ID	3392161003	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Total	0.0098J	mg/L	0.022	0.0073	SW846 6010C	#
Barium, Dissolved	0.067	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.065	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	137	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	136	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0044J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0037J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.26	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.26	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	35.7	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	35.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.025	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.022	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	5.5	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	5.5	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.029	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.032	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	44.7	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	43.6	mg/L	0.56	0.18	SW846 6010C	#
VOLATILE ORGANICS						
Benzene	0.42J	ug/L	1.0	0.23	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	16	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	246	mg/L	50	50	SM2320B-2011	#
Chloride	62.6	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	4.7	mg/L	2.5	0.80	SW846 9056A	#
pH	8.45	pH_Units			S4500HB-11	#
Specific Conductance	1030	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	284	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	744	mg/L	25	25	SM2540C-15	#
Turbidity	1.1	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-19D	Collected	12/12/2024 11:25
Lab Sample ID	3392161004	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.070	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.070	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	174	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	174	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0026J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0023J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0061J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.29	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.31	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	83.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	83.1	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.097	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.10	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	11.8	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	12.0	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.0086J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	125	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	123	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	1.2J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	4.2	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	2.5	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	0.75J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	1.5J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	13.1	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	4.8	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	0.57J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	6.0	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	62.3	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	5.5	ug/L	1.5	0.25	SW846 8270E	#
Pyrene	0.28J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	0.60J	ug/L	1.0	0.25	SW846 8260D	#
Benzene	113	ug/L	1.0	0.23	SW846 8260D	#
Ethylbenzene	2.9	ug/L	1.0	0.34	SW846 8260D	#
Isopropylbenzene	0.62J	ug/L	1.0	0.22	SW846 8260D	#
mp-Xylene	0.83J	ug/L	2.0	0.52	SW846 8260D	#
o-Xylene	0.61J	ug/L	1.0	0.33	SW846 8260D	#
Total Xylenes	1.4J	ug/L	3.0	0.66	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	74	mg/L	5	5	SM2320B-2011	#
Chloride	235	mg/L	5.0	2.2	SW846 9056A	#
pH	8.04	pH_Units			S4500HB-11	#
Specific Conductance	2410	umhos/cm	50	1	SW846 9050A	#
Sulfate	824	mg/L	10.0	7.0	SW846 9056A	#

Detected Results Summary

Sample - MW-19D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Total Dissolved Solids	1460	mg/L	25	25	SM2540C-15	#
Turbidity	5.0	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-11S	Collected	12/12/2024 09:40
Lab Sample ID	3392161005	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Total	0.0073J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.0031J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.079	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.079	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	122	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	122	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0023J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0037J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.24	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.26	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	54.8	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	55.0	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.11	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.11	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	9.4	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	9.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	80.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	79.5	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	1.1J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	1.4J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	1.5J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	0.98J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	6.7	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	1.9J	ug/L	3.0	0.25	SW846 8270E	#
Fluorene	0.86J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	106	ug/L	1.5	0.65	SW846 8270E	#
Phenanthrene	0.35J	ug/L	1.5	0.25	SW846 8270E	#
Phenol	2.2J	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	2.1	ug/L	1.0	0.25	SW846 8260D	#
Benzene	186	ug/L	1.0	0.23	SW846 8260D	#
Ethylbenzene	2.5	ug/L	1.0	0.34	SW846 8260D	#
Isopropylbenzene	0.48J	ug/L	1.0	0.22	SW846 8260D	#
mp-Xylene	3.2	ug/L	2.0	0.52	SW846 8260D	#
o-Xylene	3.3	ug/L	1.0	0.33	SW846 8260D	#
Styrene	0.24J	ug/L	1.0	0.24	SW846 8260D	#
Toluene	0.60J	ug/L	1.0	0.23	SW846 8260D	#
Total Xylenes	6.5	ug/L	3.0	0.66	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	106	mg/L	5	5	SM2320B-2011	#
Chloride	151	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	0.98J	mg/L	2.5	0.80	SW846 9056A	#
pH	8.18	pH_Units			S4500HB-11	#
Specific Conductance	1550	umhos/cm	5	0.1	SW846 9050A	#

Detected Results Summary

Sample - MW-11S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Sulfate	476	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	950	mg/L	25	25	SM2540C-15	#
Turbidity	1.5	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-11D	Collected	12/12/2024 10:55
Lab Sample ID	3392161006	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Total	0.0086J	mg/L	0.022	0.0073	SW846 6010C	#
Barium, Dissolved	0.044	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.049	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	95.9	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	99.6	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0026J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0052J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.35	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.35	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	88.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	80.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.074	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.077	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	10.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	10.5	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.010J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.0097J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	154	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	139	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	76.0	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	8.5	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	36.8	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	1.2J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	12.8	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	121	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	25.5	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	0.49J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	25.7	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	2910	ug/L	30.0	13.0	SW846 8270E	#
Phenanthrene	10.2	ug/L	1.5	0.25	SW846 8270E	#
Phenol	2.1J	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	78.6	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	15.7J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	2150	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	25.5J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	49.6J	ug/L	100	26.0	SW846 8260D	#
o-Xylene	61.7	ug/L	50.0	16.5	SW846 8260D	#
Toluene	12.9J	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	111J	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	127	mg/L	5	5	SM2320B-2011	#
Chloride	313	mg/L	5.0	2.2	SW846 9056A	#

Detected Results Summary

Sample - MW-11D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
pH	8.13	pH_Units			S4500HB-11	#
Specific Conductance	2270	umhos/cm	50	1	SW846 9050A	#
Sulfate	789	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1290	mg/L	25	25	SM2540C-15	#
Turbidity	3.3	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-11D-Dup	Collected	12/12/2024 11:10
Lab Sample ID	3392161007	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.044	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.044	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	95.9	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	95.8	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0031J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0053J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.35	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.36	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	88.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	86.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.075	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.075	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	10.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	10.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	155	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	151	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	99.4	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	63.6	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	7.2	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	31.1	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	1.0J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	11.1	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	105	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	21.8	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	0.40J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	21.4	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	2250	ug/L	1500	650	SW846 8270E	#
Phenanthrene	8.6	ug/L	1.5	0.25	SW846 8270E	#
Phenol	1.3J	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	74.7	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	15.1J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	2090	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	25.7J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	45.6J	ug/L	100	26.0	SW846 8260D	#
o-Xylene	59.4	ug/L	50.0	16.5	SW846 8260D	#
Toluene	12.7J	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	105J	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	131	mg/L	5	5	SM2320B-2011	#
Chloride	325	mg/L	5.0	2.2	SW846 9056A	#
pH	8.16	pH_Units			S4500HB-11	#
Specific Conductance	2490	umhos/cm	50	1	SW846 9050A	#

Detected Results Summary

Sample - MW-11D-Dup (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Sulfate	814	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1330	mg/L	25	25	SM2540C-15	#
Turbidity	3.5	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-31	Collected	12/12/2024 14:30
Lab Sample ID	3392161008	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Dissolved	0.014J	mg/L	0.022	0.010	SW846 6010C	#
Arsenic, Dissolved	0.0077J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0099	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.047	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.046	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	283	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	296	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0030J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0029J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0054J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0097J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.17	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.29	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	27.2	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	27.8	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.086	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.12	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	20.3	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	21.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.014J	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.024	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	340	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	335	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	199	ug/L	75.0	12.5	SW846 8270E	#
Acenaphthene	1.5J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	3.0	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	193	ug/L	150	45.0	SW846 8270E	#
Anthracene	0.32J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	8.2	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	7.5	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	8.9	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	0.45J	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	6.6	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	3800	ug/L	75.0	32.5	SW846 8270E	#
Phenanthrene	3.9	ug/L	1.5	0.25	SW846 8270E	#
Phenol	279J	ug/L	400	25.0	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	242J	ug/L	500	125	SW846 8260D	#
1,3,5-Trimethylbenzene	129J	ug/L	500	100	SW846 8260D	#
Benzene	19100	ug/L	500	115	SW846 8260D	#
mp-Xylene	996J	ug/L	1000	260	SW846 8260D	#
o-Xylene	547	ug/L	500	165	SW846 8260D	#
Toluene	2740	ug/L	500	115	SW846 8260D	#
Total Xylenes	1540	ug/L	1500	330	SW846 8260D	#

Detected Results Summary

Sample - MW-31 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Alkalinity, Total	96	mg/L	5	5	SM2320B-2011	#
Chloride	534	mg/L	10.0	4.4	SW846 9056A	#
Nitrate-N	1.1J	mg/L	2.5	0.80	SW846 9056A	#
pH	8.42	pH_Units			S4500HB-11	#
Specific Conductance	3000	umhos/cm	50	1	SW846 9050A	#
Sulfate	1050	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2200	mg/L	25	25	SM2540C-15	#
Turbidity	120	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-29	Collected	12/12/2024 15:10
Lab Sample ID	3392161009	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Dissolved	0.82	mg/L	0.11	0.036	SW846 6010C	#
Aluminum, Total	0.84	mg/L	0.11	0.036	SW846 6010C	#
Antimony, Dissolved	0.012J	mg/L	0.022	0.010	SW846 6010C	#
Barium, Dissolved	0.039	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.041	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	104	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	113	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0023J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.55	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.65	mg/L	0.067	0.022	SW846 6010C	#
Lead, Total	0.040	mg/L	0.0067	0.0022	SW846 6010C	#
Magnesium, Dissolved	1.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	1.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Total	0.0036J	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	24.4	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	24.4	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.011J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	293	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	298	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	8.3	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	1.1J	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	81.6	ug/L	3.0	0.90	SW846 8270E	#
Biphenyl	0.46J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	6.0	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	0.47J	ug/L	3.0	0.25	SW846 8270E	#
Naphthalene	742	ug/L	150	65.0	SW846 8270E	#
Phenol	11.8	ug/L	8.0	0.50	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	969	ug/L	500	125	SW846 8260D	#
1,3,5-Trimethylbenzene	870	ug/L	500	100	SW846 8260D	#
Benzene	13400	ug/L	500	115	SW846 8260D	#
mp-Xylene	32900	ug/L	1000	260	SW846 8260D	#
o-Xylene	9600	ug/L	500	165	SW846 8260D	#
Styrene	369J	ug/L	500	120	SW846 8260D	#
Toluene	25300	ug/L	500	115	SW846 8260D	#
Total Xylenes	42500	ug/L	1500	330	SW846 8260D	#
WET CHEMISTRY						
Alkalinity, Total	187	mg/L	5	5	SM2320B-2011	#
Chloride	231	mg/L	5.0	2.2	SW846 9056A	#
pH	9.64	pH_Units			S4500HB-11	#
Specific Conductance	2070	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	452	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1240	mg/L	25	25	SM2540C-15	#
Turbidity	16	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Sample - MW-29 (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag

Detected Results Summary

Client Sample ID	MW-8S	Collected	12/12/2024 14:30
Lab Sample ID	3392161010	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.018J	mg/L	0.020	0.0065	SW846 6010C	#
Barium, Total	0.017J	mg/L	0.020	0.0065	SW846 6010C	#
Calcium, Dissolved	267	mg/L	0.20	0.065	SW846 6010C	#
Calcium, Total	275	mg/L	0.20	0.065	SW846 6010C	#
Chromium, Dissolved	0.0050J	mg/L	0.010	0.0036	SW846 6010C	#
Iron, Dissolved	9.5	mg/L	0.12	0.040	SW846 6010C	#
Iron, Total	10.2	mg/L	0.12	0.040	SW846 6010C	#
Magnesium, Dissolved	30.7	mg/L	0.20	0.065	SW846 6010C	#
Magnesium, Total	31.0	mg/L	0.20	0.065	SW846 6010C	#
Manganese, Dissolved	0.015	mg/L	0.010	0.0036	SW846 6010C	#
Manganese, Total	0.021	mg/L	0.010	0.0036	SW846 6010C	#
Potassium, Dissolved	6.5	mg/L	1.0	0.32	SW846 6010C	#
Potassium, Total	6.6	mg/L	1.0	0.32	SW846 6010C	#
Selenium, Dissolved	0.16	mg/L	0.040	0.013	SW846 6010C	#
Selenium, Total	0.14	mg/L	0.040	0.013	SW846 6010C	#
Sodium, Dissolved	8.2	mg/L	1.0	0.32	SW846 6010C	#
Sodium, Total	8.0	mg/L	1.0	0.32	SW846 6010C	#
SEMIVOLATILES						
Acenaphthylene	0.41J	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	0.76J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	1.0J	ug/L	1.5	0.65	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	29	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	326	mg/L	5	5	SM2320B-2011	#
Chloride	3.1J	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	18.5	mg/L	2.5	0.80	SW846 9056A	#
pH	8.30	pH_Units			S4500HB-11	#
Specific Conductance	1300	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	316	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	992	mg/L	25	25	SM2540C-15	#
Turbidity	2.0	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-8D	Collected	12/12/2024 15:45
Lab Sample ID	3392161011	Lab Receipt	12/13/2024 08:54

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.013	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.014	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.056	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.051	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	193	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	194	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0022J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.62	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	1.4	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	82.0	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	81.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.26	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.26	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	6.0	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	5.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	70.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	54.2	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	60.3	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	6.0	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	7.4	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	5.7	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	1.1J	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	3.0J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	104	ug/L	3.0	0.25	SW846 8270E	#
Dibenzofuran	12.0	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	1.6	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	10.2	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	264	ug/L	6.0	2.6	SW846 8270E	#
Phenanthrene	4.5	ug/L	1.5	0.25	SW846 8270E	#
Phenol	2.9J	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	0.71J	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	87.7	ug/L	20.0	5.0	SW846 8260D	#
1,3,5-Trimethylbenzene	7.0J	ug/L	20.0	4.0	SW846 8260D	#
Benzene	750	ug/L	20.0	4.6	SW846 8260D	#
Ethylbenzene	94.7	ug/L	20.0	6.8	SW846 8260D	#
Isopropylbenzene	6.9J	ug/L	20.0	4.4	SW846 8260D	#
mp-Xylene	20.1J	ug/L	40.0	10.4	SW846 8260D	#
o-Xylene	14.4J	ug/L	20.0	6.6	SW846 8260D	#
Toluene	37.6	ug/L	20.0	4.6	SW846 8260D	#
Total Xylenes	34.5J	ug/L	60.0	13.2	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	24	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	489	mg/L	50	50	SM2320B-2011	#

Detected Results Summary

Sample - MW-8D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Chloride	96.2	mg/L	5.0	2.2	SW846 9056A	#
pH	8.35	pH_Units			S4500HB-11	#
Specific Conductance	1950	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	527	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1180	mg/L	25	25	SM2540C-15	#
Turbidity	40	NTU	0.30	0.30	SM2130B-2011	#

Results

Client Sample ID	MW-33	Collected	12/12/2024 09:39
Lab Sample ID	3392161001	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Barium, Dissolved	0.042		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Barium, Total	0.041		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Calcium, Dissolved	146		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Calcium, Total	145		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Chromium, Dissolved	0.0050J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Chromium, Total	0.0043J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Copper, Dissolved	0.087		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Copper, Total	0.0063J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Iron, Dissolved	0.19		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Iron, Total	0.19		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Magnesium, Dissolved	39.1		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Magnesium, Total	39.0		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Manganese, Dissolved	0.025		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Manganese, Total	0.025		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:46	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:45	AJN	E2
Nickel, Dissolved	0.15		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Potassium, Dissolved	4.6		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Potassium, Total	4.6		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Selenium, Dissolved	0.064		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Selenium, Total	0.061		mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Sodium, Dissolved	167		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Sodium, Total	167		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:34	MSY	E1
Zinc, Dissolved	0.0076J	J	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:03	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:34	MSY	E1

Results

Client Sample ID	MW-33	Collected	12/12/2024 09:39
Lab Sample ID	3392161001	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 17:08	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 17:08	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 17:08	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:08	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 17:08	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 17:08	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 17:08	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:08	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 17:08	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 17:08	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 17:08	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:08	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 17:08	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 17:08	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:08	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 17:08	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:08	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 17:08	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 17:08	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 17:08	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:08	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 17:08	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 17:08	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 17:08	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 17:08	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 17:08	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:08	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	89.7%	23 – 131	12/20/2024 17:08	
2-Fluorobiphenyl	321-60-8	64%	24 – 116	12/20/2024 17:08	
2-Fluorophenol	367-12-4	42.9%	10 – 85	12/20/2024 17:08	
Nitrobenzene-d5	4165-60-0	72.1%	32 – 125	12/20/2024 17:08	
Phenol-d5	4165-62-2	35.2%	7 – 56	12/20/2024 17:08	
Terphenyl-d14	98904-43-9	38.4*%	41 – 145	12/20/2024 17:08	2

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 01:06	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 01:06	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 01:06	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 01:06	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 01:06	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 01:06	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 01:06	PDK	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:06	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:06	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 01:06	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 01:06	PDK	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 01:06	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:06	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:06	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 01:06	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 01:06	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:06	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 01:06	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:06	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:06	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:06	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:06	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:06	PDK	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 01:06	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 01:06	PDK	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 01:06	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 01:06	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 01:06	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:06	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 01:06	PDK	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 01:06	PDK	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:06	PDK	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:06	PDK	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 01:06	PDK	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:06	PDK	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 01:06	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 01:06	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:06	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:06	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:06	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 01:06	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.9%	62 – 133	12/20/2024 01:06	
4-Bromofluorobenzene	460-00-4	97.2%	79 – 114	12/20/2024 01:06	
Dibromofluoromethane	1868-53-7	93.5%	78 – 116	12/20/2024 01:06	
Toluene-d8	2037-26-5	98.6%	76 – 127	12/20/2024 01:06	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	6	3	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	203	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 17:47	JXK	I
Chloride	114		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 20:45	J1W	I
Nitrate-N	18.1		mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 20:45	J1W	I
pH	8.25	5	pH_Units			S4500HB-11	1	12/26/2024 17:47	JXK	I
Specific Conductance	1640		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	442		mg/L	5.0	3.5	SW846 9056A	5	12/13/2024 20:45	J1W	I
Total Dissolved Solids	1210		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	1.0		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Antimony, Total	0.0077J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Arsenic, Dissolved	0.0070J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Arsenic, Total	0.0058J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Barium, Dissolved	0.076		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Barium, Total	0.075		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Calcium, Dissolved	201		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Calcium, Total	199		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Iron, Dissolved	1.1		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Iron, Total	1.2		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Magnesium, Dissolved	39.5		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Magnesium, Total	39.4		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Manganese, Dissolved	0.68		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Manganese, Total	0.70		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:42	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:13	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Potassium, Dissolved	15.0		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Potassium, Total	15.0		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Sodium, Dissolved	118		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Sodium, Total	116		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:35	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:04	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:35	MSY	E1

Results

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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 19:13	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 19:13	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 19:13	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:13	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 19:13	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 19:13	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 19:13	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:13	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 19:13	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 19:13	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 19:13	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:13	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 19:13	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 19:13	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:13	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 19:13	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:13	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 19:13	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 19:13	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 19:13	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:13	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
Naphthalene	0.70J	J	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 19:13	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 19:13	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 19:13	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 19:13	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 19:13	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:13	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	46.5%	23 – 131	12/20/2024 19:13	
2-Fluorobiphenyl	321-60-8	58.2%	24 – 116	12/20/2024 19:13	
2-Fluorophenol	367-12-4	25.2%	10 – 85	12/20/2024 19:13	
Nitrobenzene-d5	4165-60-0	64%	32 – 125	12/20/2024 19:13	
Phenol-d5	4165-62-2	25.9%	7 – 56	12/20/2024 19:13	
Terphenyl-d14	98904-43-9	36.7*%	41 – 145	12/20/2024 19:13	6

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 01:26	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 01:26	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 01:26	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 01:26	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 01:26	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 01:26	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 01:26	PDK	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:26	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:26	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 01:26	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 01:26	PDK	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 01:26	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:26	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:26	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 01:26	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 01:26	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:26	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 01:26	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:26	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:26	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:26	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:26	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:26	PDK	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 01:26	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 01:26	PDK	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 01:26	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 01:26	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 01:26	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:26	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 01:26	PDK	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 01:26	PDK	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:26	PDK	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:26	PDK	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 01:26	PDK	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:26	PDK	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 01:26	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 01:26	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:26	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:26	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:26	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 01:26	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/20/2024 01:26	
4-Bromofluorobenzene	460-00-4	99%	79 – 114	12/20/2024 01:26	
Dibromofluoromethane	1868-53-7	97.9%	78 – 116	12/20/2024 01:26	
Toluene-d8	2037-26-5	101%	76 – 127	12/20/2024 01:26	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	17	3	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	331	4	mg/L	50	50	SM2320B-2011	10	12/26/2024 16:08	JXK	I
Chloride	217	7	mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 20:57	J1W	I
Nitrate-N	ND	ND,8,9	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 20:57	J1W	I
pH	8.32	5	pH_Units			S4500HB-11	1	12/19/2024 11:54	KMV	I
Specific Conductance	1660		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	148	10,11	mg/L	5.0	3.5	SW846 9056A	5	12/13/2024 20:57	J1W	I
Total Dissolved Solids	1050		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	9.1		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-19S	Collected	12/12/2024 09:50
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Antimony, Total	0.0098J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Barium, Dissolved	0.067		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Barium, Total	0.065		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Calcium, Dissolved	137		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Calcium, Total	136		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Chromium, Dissolved	0.0044J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Chromium, Total	0.0037J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Iron, Dissolved	0.26		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Iron, Total	0.26		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Magnesium, Dissolved	35.7		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Magnesium, Total	35.4		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Manganese, Dissolved	0.025		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Manganese, Total	0.022		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:32	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:02	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Potassium, Dissolved	5.5		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Potassium, Total	5.5		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Selenium, Dissolved	0.029		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Selenium, Total	0.032		mg/L	0.022	0.0073	SW846 6010C	1	12/19/2024 15:11	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Sodium, Dissolved	44.7		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Sodium, Total	43.6		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:41	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:06	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:41	MSY	E1

Results

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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 17:58	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 17:58	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 17:58	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:58	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 17:58	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 17:58	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 17:58	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:58	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 17:58	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 17:58	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 17:58	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:58	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 17:58	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 17:58	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:58	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 17:58	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:58	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 17:58	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 17:58	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 17:58	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:58	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 17:58	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 17:58	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 17:58	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 17:58	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 17:58	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	77.5%	23 – 131	12/20/2024 17:58	
2-Fluorobiphenyl	321-60-8	58.1%	24 – 116	12/20/2024 17:58	
2-Fluorophenol	367-12-4	38.3%	10 – 85	12/20/2024 17:58	
Nitrobenzene-d5	4165-60-0	63.6%	32 – 125	12/20/2024 17:58	
Phenol-d5	4165-62-2	31.8%	7 – 56	12/20/2024 17:58	
Terphenyl-d14	98904-43-9	41%	41 – 145	12/20/2024 17:58	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 01:47	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 01:47	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 01:47	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 01:47	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 01:47	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 01:47	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 01:47	PDK	A
Benzene	0.42J	J	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:47	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:47	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 01:47	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 01:47	PDK	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 01:47	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:47	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:47	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 01:47	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 01:47	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:47	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 01:47	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:47	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 01:47	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 01:47	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:47	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:47	PDK	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 01:47	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 01:47	PDK	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 01:47	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 01:47	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 01:47	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:47	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 01:47	PDK	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 01:47	PDK	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:47	PDK	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:47	PDK	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 01:47	PDK	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 01:47	PDK	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 01:47	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 01:47	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 01:47	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 01:47	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 01:47	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 01:47	PDK	A

Results

Client Sample ID	MW-19S	Collected	12/12/2024 09:50
Lab Sample ID	3392161003	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/20/2024 01:47	
4-Bromofluorobenzene	460-00-4	96.4%	79 – 114	12/20/2024 01:47	
Dibromofluoromethane	1868-53-7	96.4%	78 – 116	12/20/2024 01:47	
Toluene-d8	2037-26-5	99.9%	76 – 127	12/20/2024 01:47	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	16	3	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	246	4	mg/L	50	50	SM2320B-2011	10	12/26/2024 16:20	JXK	I
Chloride	62.6		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 22:00	J1W	I
Nitrate-N	4.7		mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 22:00	J1W	I
pH	8.45	5	pH_Units			S4500HB-11	1	12/19/2024 12:11	KMV	I
Specific Conductance	1030		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	284		mg/L	5.0	3.5	SW846 9056A	5	12/13/2024 22:00	J1W	I
Total Dissolved Solids	744		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	1.1		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-19D	Collected	12/12/2024 11:25
Lab Sample ID	3392161004	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Barium, Dissolved	0.070		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Barium, Total	0.070		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Calcium, Dissolved	174		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Calcium, Total	174		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Chromium, Dissolved	0.0026J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Chromium, Total	0.0023J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Copper, Total	0.0061J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Iron, Dissolved	0.29		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Iron, Total	0.31		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Magnesium, Dissolved	83.9		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Magnesium, Total	83.1		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Manganese, Dissolved	0.097		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Manganese, Total	0.10		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:47	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:10	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Potassium, Dissolved	11.8		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Potassium, Total	12.0		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Selenium, Total	0.0086J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Sodium, Dissolved	125		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Sodium, Total	123		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:42	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:07	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:42	MSY	E1

Results

Client Sample ID	MW-19D	Collected	12/12/2024 11:25
Lab Sample ID	3392161004	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 19:38	CGS	D
2-Methylnaphthalene	1.2J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 19:38	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 19:38	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:38	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 19:38	CGS	D
Acenaphthene	4.2		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Acenaphthylene	2.5		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 19:38	CGS	D
Anthracene	0.75J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 19:38	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:38	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 19:38	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 19:38	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 19:38	CGS	D
Biphenyl	1.5J	J	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:38	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 19:38	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 19:38	CGS	D
Carbazole	13.1		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D

Results

Client Sample ID	MW-19D	Collected	12/12/2024 11:25
Lab Sample ID	3392161004	Lab Receipt	12/13/2024 08:54

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:38	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 19:38	CGS	D
Dibenzofuran	4.8		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:38	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Fluoranthene	0.57J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Fluorene	6.0		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 19:38	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 19:38	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 19:38	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:38	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
Naphthalene	62.3		ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 19:38	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 19:38	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 19:38	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 19:38	CGS	D
Phenanthrene	5.5		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 19:38	CGS	D
Pyrene	0.28J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:38	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	69%	23 – 131	12/20/2024 19:38	
2-Fluorobiphenyl	321-60-8	74.3%	24 – 116	12/20/2024 19:38	
2-Fluorophenol	367-12-4	38%	10 – 85	12/20/2024 19:38	
Nitrobenzene-d5	4165-60-0	82.5%	32 – 125	12/20/2024 19:38	
Phenol-d5	4165-62-2	37.4%	7 – 56	12/20/2024 19:38	
Terphenyl-d14	98904-43-9	46.4%	41 – 145	12/20/2024 19:38	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 02:07	PDK	A

Results

Client Sample ID	MW-19D	Collected	12/12/2024 11:25
Lab Sample ID	3392161004	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	0.60J	J	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 02:07	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 02:07	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 02:07	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 02:07	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 02:07	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 02:07	PDK	A
Benzene	113		ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 02:07	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 02:07	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 02:07	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 02:07	PDK	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 02:07	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 02:07	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 02:07	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 02:07	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 02:07	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:07	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 02:07	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 02:07	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 02:07	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 02:07	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 02:07	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:07	PDK	A
Ethylbenzene	2.9		ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 02:07	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 02:07	PDK	A
Isopropylbenzene	0.62J	J	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 02:07	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 02:07	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 02:07	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:07	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 02:07	PDK	A
mp-Xylene	0.83J	J	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 02:07	PDK	A
o-Xylene	0.61J	J	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:07	PDK	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 02:07	PDK	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 02:07	PDK	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 02:07	PDK	A
Total Xylenes	1.4J	J	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 02:07	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 02:07	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 02:07	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:07	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 02:07	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 02:07	PDK	A

Results

Client Sample ID	MW-19D	Collected	12/12/2024 11:25
Lab Sample ID	3392161004	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/20/2024 02:07	
4-Bromofluorobenzene	460-00-4	95.5%	79 – 114	12/20/2024 02:07	
Dibromofluoromethane	1868-53-7	94.5%	78 – 116	12/20/2024 02:07	
Toluene-d8	2037-26-5	98.2%	76 – 127	12/20/2024 02:07	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	74	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 16:30	JXK	I
Chloride	235		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 22:12	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 22:12	J1W	I
pH	8.04	5	pH_Units			S4500HB-11	1	12/19/2024 12:20	KMV	I
Specific Conductance	2410		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	824		mg/L	10.0	7.0	SW846 9056A	10	12/17/2024 23:55	J1W	I
Total Dissolved Solids	1460		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	5.0		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-11S	Collected	12/12/2024 09:40
Lab Sample ID	3392161005	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Antimony, Total	0.0073J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Arsenic, Dissolved	0.0031J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Barium, Dissolved	0.079		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Barium, Total	0.079		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Calcium, Dissolved	122		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Calcium, Total	122		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Chromium, Dissolved	0.0023J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Copper, Total	0.0037J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Iron, Dissolved	0.24		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Iron, Total	0.26		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Magnesium, Dissolved	54.8		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Magnesium, Total	55.0		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Manganese, Dissolved	0.11		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Manganese, Total	0.11		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:41	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:12	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Potassium, Dissolved	9.4		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Potassium, Total	9.2		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Sodium, Dissolved	80.6		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Sodium, Total	79.5		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:43	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:08	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:43	MSY	E1

Results

Client Sample ID	MW-11S	Collected	12/12/2024 09:40
Lab Sample ID	3392161005	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 17:33	CGS	D
2-Methylnaphthalene	1.1J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 17:33	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 17:33	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:33	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 17:33	CGS	D
Acenaphthene	1.4J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Acenaphthylene	1.5J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 17:33	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 17:33	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:33	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 17:33	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 17:33	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 17:33	CGS	D
Biphenyl	0.98J	J	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:33	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 17:33	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 17:33	CGS	D
Carbazole	6.7		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D

Results

Client Sample ID	MW-11S	Collected	12/12/2024 09:40
Lab Sample ID	3392161005	Lab Receipt	12/13/2024 08:54

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:33	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 17:33	CGS	D
Dibenzofuran	1.9J	J	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:33	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Fluorene	0.86J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 17:33	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 17:33	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 17:33	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:33	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
Naphthalene	106		ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 17:33	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 17:33	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 17:33	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 17:33	CGS	D
Phenanthrene	0.35J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D
Phenol	2.2J	J	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 17:33	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	86%	23 – 131	12/20/2024 17:33	
2-Fluorobiphenyl	321-60-8	73.4%	24 – 116	12/20/2024 17:33	
2-Fluorophenol	367-12-4	45%	10 – 85	12/20/2024 17:33	
Nitrobenzene-d5	4165-60-0	81.7%	32 – 125	12/20/2024 17:33	
Phenol-d5	4165-62-2	39.1%	7 – 56	12/20/2024 17:33	
Terphenyl-d14	98904-43-9	48.5%	41 – 145	12/20/2024 17:33	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 02:48	PDK	A

Results

Client Sample ID	MW-11S	Collected	12/12/2024 09:40
Lab Sample ID	3392161005	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	2.1		ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 02:48	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 02:48	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 02:48	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 02:48	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 02:48	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 02:48	PDK	A
Benzene	186		ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 02:48	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 02:48	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 02:48	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 02:48	PDK	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 02:48	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 02:48	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 02:48	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 02:48	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 02:48	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:48	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 02:48	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 02:48	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 02:48	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 02:48	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 02:48	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:48	PDK	A
Ethylbenzene	2.5		ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 02:48	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 02:48	PDK	A
Isopropylbenzene	0.48J	J	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 02:48	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 02:48	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 02:48	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:48	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 02:48	PDK	A
mp-Xylene	3.2		ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 02:48	PDK	A
o-Xylene	3.3		ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:48	PDK	A
Styrene	0.24J	J	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 02:48	PDK	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 02:48	PDK	A
Toluene	0.60J	J	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 02:48	PDK	A
Total Xylenes	6.5		ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 02:48	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 02:48	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 02:48	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 02:48	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 02:48	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 02:48	PDK	A

Results

Client Sample ID	MW-11S	Collected	12/12/2024 09:40
Lab Sample ID	3392161005	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/20/2024 02:48	
4-Bromofluorobenzene	460-00-4	96.3%	79 – 114	12/20/2024 02:48	
Dibromofluoromethane	1868-53-7	95%	78 – 116	12/20/2024 02:48	
Toluene-d8	2037-26-5	98.6%	76 – 127	12/20/2024 02:48	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	106	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 16:40	JXK	I
Chloride	151		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 22:24	J1W	I
Nitrate-N	0.98J	J	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 22:24	J1W	I
pH	8.18	5	pH_Units			S4500HB-11	1	12/19/2024 12:30	KMV	I
Specific Conductance	1550		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	476		mg/L	5.0	3.5	SW846 9056A	5	12/13/2024 22:24	J1W	I
Total Dissolved Solids	950		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	1.5		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-11D	Collected	12/12/2024 10:55
Lab Sample ID	3392161006	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Antimony, Total	0.0086J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Barium, Dissolved	0.044		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Barium, Total	0.049		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Calcium, Dissolved	95.9		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Calcium, Total	99.6		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Chromium, Dissolved	0.0026J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Chromium, Total	0.0021J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Copper, Total	0.0052J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Iron, Dissolved	0.35		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Iron, Total	0.35		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Magnesium, Dissolved	88.6		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Magnesium, Total	80.4		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Manganese, Dissolved	0.074		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Manganese, Total	0.077		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:37	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:14	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Potassium, Dissolved	10.6		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Potassium, Total	10.5		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Selenium, Dissolved	0.010J	J	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Selenium, Total	0.0097J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Sodium, Dissolved	154		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Sodium, Total	139		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:44	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:09	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:44	MSY	E1

Results

Client Sample ID	MW-11D	Collected	12/12/2024 10:55
Lab Sample ID	3392161006	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 18:23	CGS	D
2-Methylnaphthalene	76.0		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 18:23	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 18:23	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:23	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 18:23	CGS	D
Acenaphthene	8.5		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Acenaphthylene	36.8		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 18:23	CGS	D
Anthracene	1.2J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 18:23	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:23	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 18:23	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 18:23	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 18:23	CGS	D
Biphenyl	12.8		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:23	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 18:23	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 18:23	CGS	D
Carbazole	121		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D

Results

Client Sample ID	MW-11D	Collected	12/12/2024 10:55
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:23	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 18:23	CGS	D
Dibenzofuran	25.5		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:23	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Fluoranthene	0.49J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Fluorene	25.7		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 18:23	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 18:23	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 18:23	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:23	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
Naphthalene	2910		ug/L	30.0	13.0	SW846 8270E	20	12/24/2024 05:26	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 18:23	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 18:23	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 18:23	CGS	D
Phenanthrene	10.2		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D
Phenol	2.1J	J	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 18:23	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:23	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	98.6%	23 – 131	12/20/2024 18:23	
2,4,6-Tribromophenol	118-79-6	96.8%	23 – 131	12/24/2024 05:26	
2-Fluorobiphenyl	321-60-8	84.9%	24 – 116	12/20/2024 18:23	
2-Fluorobiphenyl	321-60-8	94.1%	24 – 116	12/24/2024 05:26	
2-Fluorophenol	367-12-4	52%	10 – 85	12/20/2024 18:23	
2-Fluorophenol	367-12-4	61.3%	10 – 85	12/24/2024 05:26	
Nitrobenzene-d5	4165-60-0	97.6%	32 – 125	12/20/2024 18:23	
Nitrobenzene-d5	4165-60-0	103%	32 – 125	12/24/2024 05:26	
Phenol-d5	4165-62-2	43%	7 – 56	12/20/2024 18:23	
Phenol-d5	4165-62-2	46.9%	7 – 56	12/24/2024 05:26	
Terphenyl-d14	98904-43-9	43.7%	41 – 145	12/20/2024 18:23	
Terphenyl-d14	98904-43-9	46.7%	41 – 145	12/24/2024 05:26	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/20/2024 04:50	PDK	A

Results

Client Sample ID	MW-11D	Collected	12/12/2024 10:55
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2,4-Trimethylbenzene	78.6		ug/L	50.0	12.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,3,5-Trimethylbenzene	15.7J	J	ug/L	50.0	10.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/20/2024 04:50	PDK	A
Benzene	2150		ug/L	50.0	11.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Bromomethane	ND	ND,1	ug/L	50.0	19.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Ethylbenzene	25.5J	J	ug/L	50.0	17.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
mp-Xylene	49.6J	J	ug/L	100	26.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
o-Xylene	61.7		ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Styrene	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Toluene	12.9J	J	ug/L	50.0	11.5	SW846 8260D	50	12/20/2024 04:50	PDK	A

Results

Client Sample ID	MW-11D	Collected	12/12/2024 10:55
Lab Sample ID	3392161006	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	111J	J	ug/L	150	33.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:50	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/20/2024 04:50	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/20/2024 04:50	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/20/2024 04:50	
4-Bromofluorobenzene	460-00-4	96.7%	79 – 114	12/20/2024 04:50	
Dibromofluoromethane	1868-53-7	94.8%	78 – 116	12/20/2024 04:50	
Toluene-d8	2037-26-5	98%	76 – 127	12/20/2024 04:50	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/19/2024 15:03	RAG	I
Alkalinity, Total	127	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 16:55	JXK	I
Chloride	313		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 22:37	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 22:37	J1W	I
pH	8.13	5	pH_Units			S4500HB-11	1	12/19/2024 12:41	KMV	I
Specific Conductance	2270		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	789		mg/L	10.0	7.0	SW846 9056A	10	12/18/2024 00:06	J1W	I
Total Dissolved Solids	1290		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	3.3		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-11D-Dup	Collected	12/12/2024 11:10
Lab Sample ID	3392161007	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Barium, Dissolved	0.044		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Barium, Total	0.044		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Calcium, Dissolved	95.9		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Calcium, Total	95.8		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Chromium, Dissolved	0.0031J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Chromium, Total	0.0021J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Copper, Total	0.0053J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Iron, Dissolved	0.35		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Iron, Total	0.36		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Magnesium, Dissolved	88.9		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Magnesium, Total	86.7		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Manganese, Dissolved	0.075		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Manganese, Total	0.075		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:37	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:16	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Potassium, Dissolved	10.6		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Potassium, Total	10.6		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Sodium, Dissolved	155		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Sodium, Total	151		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:45	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:10	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:45	MSY	E1

Results

Client Sample ID	MW-11D-Dup	Collected	12/12/2024 11:10
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,4-Dimethylphenol	99.4		ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 18:48	CGS	D
2-Methylnaphthalene	63.6		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 18:48	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 18:48	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:48	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 18:48	CGS	D
Acenaphthene	7.2		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Acenaphthylene	31.1		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 18:48	CGS	D
Anthracene	1.0J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 18:48	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:48	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 18:48	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 18:48	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 18:48	CGS	D
Biphenyl	11.1		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:48	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 18:48	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 18:48	CGS	D
Carbazole	105		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D

Results

Client Sample ID	MW-11D-Dup	Collected	12/12/2024 11:10
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:48	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 18:48	CGS	D
Dibenzofuran	21.8		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:48	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Fluoranthene	0.40J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Fluorene	21.4		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 18:48	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 18:48	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 18:48	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:48	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
Naphthalene	2250		ug/L	1500	650	SW846 8270E	1000	12/26/2024 22:29	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 18:48	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 18:48	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 18:48	CGS	D
Phenanthrene	8.6		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D
Phenol	1.3J	J	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 18:48	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:48	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	49.5%	23 – 131	12/20/2024 18:48	
2-Fluorobiphenyl	321-60-8	73.8%	24 – 116	12/20/2024 18:48	
2-Fluorophenol	367-12-4	25%	10 – 85	12/20/2024 18:48	
Nitrobenzene-d5	4165-60-0	81%	32 – 125	12/20/2024 18:48	
Phenol-d5	4165-62-2	26.3%	7 – 56	12/20/2024 18:48	
Terphenyl-d14	98904-43-9	40.7* %	41 – 145	12/20/2024 18:48	12

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/20/2024 04:30	PDK	A

Results

Client Sample ID	MW-11D-Dup	Collected	12/12/2024 11:10
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	74.7		ug/L	50.0	12.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,3,5-Trimethylbenzene	15.1J	J	ug/L	50.0	10.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/20/2024 04:30	PDK	A
Benzene	2090		ug/L	50.0	11.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Bromomethane	ND	ND,1	ug/L	50.0	19.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Ethylbenzene	25.7J	J	ug/L	50.0	17.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
mp-Xylene	45.6J	J	ug/L	100	26.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
o-Xylene	59.4		ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Styrene	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Toluene	12.7J	J	ug/L	50.0	11.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Total Xylenes	105J	J	ug/L	150	33.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/20/2024 04:30	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/20/2024 04:30	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/20/2024 04:30	PDK	A

Results

Client Sample ID	MW-11D-Dup	Collected	12/12/2024 11:10
Lab Sample ID	3392161007	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/20/2024 04:30	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	12/20/2024 04:30	
Dibromofluoromethane	1868-53-7	94.3%	78 – 116	12/20/2024 04:30	
Toluene-d8	2037-26-5	97.7%	76 – 127	12/20/2024 04:30	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	131	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 17:09	JXK	I
Chloride	325		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 22:49	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 22:49	J1W	I
pH	8.16	5	pH_Units			S4500HB-11	1	12/19/2024 12:51	KMV	I
Specific Conductance	2490		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	814		mg/L	10.0	7.0	SW846 9056A	10	12/18/2024 00:17	J1W	I
Total Dissolved Solids	1330		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	3.5		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-31	Collected	12/12/2024 14:30
Lab Sample ID	3392161008	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Antimony, Dissolved	0.014J	J	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Arsenic, Dissolved	0.0077J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Arsenic, Total	0.0099		mg/L	0.0090	0.0037	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Barium, Dissolved	0.047		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Barium, Total	0.046		mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Calcium, Dissolved	283		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Calcium, Total	296		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Chromium, Dissolved	0.0030J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Chromium, Total	0.0029J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Copper, Dissolved	0.0054J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Copper, Total	0.0097J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Iron, Dissolved	0.17		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Iron, Total	0.29		mg/L	0.067	0.022	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Magnesium, Dissolved	27.2		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Magnesium, Total	27.8		mg/L	0.11	0.036	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Manganese, Dissolved	0.086		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Manganese, Total	0.12		mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:43	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:08	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Potassium, Dissolved	20.3		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Potassium, Total	21.2		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Selenium, Dissolved	0.014J	J	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Selenium, Total	0.024		mg/L	0.022	0.0073	SW846 6010C	1	12/19/2024 15:23	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Sodium, Dissolved	340		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Sodium, Total	335		mg/L	0.56	0.18	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/18/2024 09:46	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:11	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/18/2024 09:46	MSY	E1

Results

Client Sample ID	MW-31	Collected	12/12/2024 14:30
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 20:03	CGS	D
2-Methylnaphthalene	199		ug/L	75.0	12.5	SW846 8270E	50	12/26/2024 22:54	M1O	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 20:03	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 20:03	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:03	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 20:03	CGS	D
Acenaphthene	1.5J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Acenaphthylene	3.0		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Acetophenone	193		ug/L	150	45.0	SW846 8270E	50	12/26/2024 22:54	M1O	D
Anthracene	0.32J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 20:03	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 20:03	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 20:03	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 20:03	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 20:03	CGS	D
Biphenyl	8.2		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:03	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 20:03	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 20:03	CGS	D
Carbazole	7.5		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 20:03	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 20:03	CGS	D
Dibenzofuran	8.9		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 20:03	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Fluoranthene	0.45J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Fluorene	6.6		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 20:03	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 20:03	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 20:03	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 20:03	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
Naphthalene	3800		ug/L	75.0	32.5	SW846 8270E	50	12/26/2024 22:54	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 20:03	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 20:03	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:03	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 20:03	CGS	D
Phenanthrene	3.9		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D
Phenol	279J	J	ug/L	400	25.0	SW846 8270E	50	12/26/2024 22:54	M1O	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:03	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	123%	23 – 131	12/20/2024 20:03	
2-Fluorobiphenyl	321-60-8	93.8%	24 – 116	12/20/2024 20:03	
2-Fluorophenol	367-12-4	70%	10 – 85	12/20/2024 20:03	
Nitrobenzene-d5	4165-60-0	110%	32 – 125	12/20/2024 20:03	
Phenol-d5	4165-62-2	55.3%	7 – 56	12/20/2024 20:03	
Terphenyl-d14	98904-43-9	44.7%	41 – 145	12/20/2024 20:03	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	500	110	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	500	170	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	500	140	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	500	145	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	1000	465	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	1000	300	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	1000	410	SW846 8260D	500	12/20/2024 05:51	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	242J	J	ug/L	500	125	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	3500	750	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	500	140	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	500	190	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	500	160	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	500	120	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,3,5-Trimethylbenzene	129J	J	ug/L	500	100	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	500	125	SW846 8260D	500	12/20/2024 05:51	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	500	135	SW846 8260D	500	12/20/2024 05:51	PDK	A
2-Butanone	ND	ND	ug/L	5000	900	SW846 8260D	500	12/20/2024 05:51	PDK	A
2-Hexanone	ND	ND	ug/L	2500	650	SW846 8260D	500	12/20/2024 05:51	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	2500	750	SW846 8260D	500	12/20/2024 05:51	PDK	A
Acetone	ND	ND	ug/L	5000	1550	SW846 8260D	500	12/20/2024 05:51	PDK	A
Benzene	19100		ug/L	500	115	SW846 8260D	500	12/20/2024 05:51	PDK	A
Bromochloromethane	ND	ND	ug/L	500	160	SW846 8260D	500	12/20/2024 05:51	PDK	A
Bromodichloromethane	ND	ND	ug/L	500	135	SW846 8260D	500	12/20/2024 05:51	PDK	A
Bromoform	ND	ND	ug/L	500	200	SW846 8260D	500	12/20/2024 05:51	PDK	A
Bromomethane	ND	ND,1	ug/L	500	195	SW846 8260D	500	12/20/2024 05:51	PDK	A
Carbon Disulfide	ND	ND	ug/L	500	115	SW846 8260D	500	12/20/2024 05:51	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	500	155	SW846 8260D	500	12/20/2024 05:51	PDK	A
Chlorobenzene	ND	ND	ug/L	500	95.0	SW846 8260D	500	12/20/2024 05:51	PDK	A
Chlorodibromomethane	ND	ND	ug/L	500	225	SW846 8260D	500	12/20/2024 05:51	PDK	A
Chloroethane	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 05:51	PDK	A
Chloroform	ND	ND	ug/L	500	105	SW846 8260D	500	12/20/2024 05:51	PDK	A
Chloromethane	ND	ND	ug/L	500	155	SW846 8260D	500	12/20/2024 05:51	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	500	160	SW846 8260D	500	12/20/2024 05:51	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	500	155	SW846 8260D	500	12/20/2024 05:51	PDK	A
Cyclohexane	ND	ND	ug/L	500	145	SW846 8260D	500	12/20/2024 05:51	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 05:51	PDK	A
Ethylbenzene	ND	ND	ug/L	500	170	SW846 8260D	500	12/20/2024 05:51	PDK	A
Freon 113	ND	ND	ug/L	500	130	SW846 8260D	500	12/20/2024 05:51	PDK	A
Isopropylbenzene	ND	ND	ug/L	500	110	SW846 8260D	500	12/20/2024 05:51	PDK	A
Methyl acetate	ND	ND	ug/L	1000	160	SW846 8260D	500	12/20/2024 05:51	PDK	A
Methyl cyclohexane	ND	ND	ug/L	500	150	SW846 8260D	500	12/20/2024 05:51	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 05:51	PDK	A
Methylene Chloride	ND	ND	ug/L	500	225	SW846 8260D	500	12/20/2024 05:51	PDK	A
mp-Xylene	996J	J	ug/L	1000	260	SW846 8260D	500	12/20/2024 05:51	PDK	A
o-Xylene	547		ug/L	500	165	SW846 8260D	500	12/20/2024 05:51	PDK	A
Styrene	ND	ND	ug/L	500	120	SW846 8260D	500	12/20/2024 05:51	PDK	A
Tetrachloroethene	ND	ND	ug/L	500	175	SW846 8260D	500	12/20/2024 05:51	PDK	A
Toluene	2740		ug/L	500	115	SW846 8260D	500	12/20/2024 05:51	PDK	A
Total Xylenes	1540		ug/L	1500	330	SW846 8260D	500	12/20/2024 05:51	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	500	130	SW846 8260D	500	12/20/2024 05:51	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	500	145	SW846 8260D	500	12/20/2024 05:51	PDK	A
Trichloroethene	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 05:51	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	500	120	SW846 8260D	500	12/20/2024 05:51	PDK	A
Vinyl Chloride	ND	ND	ug/L	500	150	SW846 8260D	500	12/20/2024 05:51	PDK	A

Results

Client Sample ID	MW-31	Collected	12/12/2024 14:30
Lab Sample ID	3392161008	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.8%	62 – 133	12/20/2024 05:51	
4-Bromofluorobenzene	460-00-4	93.2%	79 – 114	12/20/2024 05:51	
Dibromofluoromethane	1868-53-7	92%	78 – 116	12/20/2024 05:51	
Toluene-d8	2037-26-5	95.5%	76 – 127	12/20/2024 05:51	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	96	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 17:24	JXK	I
Chloride	534		mg/L	10.0	4.4	SW846 9056A	10	12/18/2024 00:29	J1W	I
Nitrate-N	1.1J	J	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 23:02	J1W	I
pH	8.42	5	pH_Units			S4500HB-11	1	12/19/2024 13:06	KMV	I
Specific Conductance	3000		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	1050		mg/L	20.0	14.0	SW846 9056A	20	12/19/2024 08:06	J1W	I
Total Dissolved Solids	2200		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	120		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-29	Collected	12/12/2024 15:10
Lab Sample ID	3392161009	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	0.82		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Aluminum, Total	0.84		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:22	MSY	E
Antimony, Dissolved	0.012J	J	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:22	MSY	E
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:22	MSY	E
Barium, Dissolved	0.039		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Barium, Total	0.041		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:22	MSY	E
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:22	MSY	E
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:22	MSY	E
Calcium, Dissolved	104		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Calcium, Total	113		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:22	MSY	E
Chromium, Dissolved	0.0023J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:22	MSY	E
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:22	MSY	E
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:22	MSY	E
Iron, Dissolved	0.55		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Iron, Total	0.65		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:22	MSY	E
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Lead, Total	0.040		mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:22	MSY	E
Magnesium, Dissolved	1.9		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Magnesium, Total	1.5		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:22	MSY	E
Manganese, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Manganese, Total	0.0036J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:22	MSY	E
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:50	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 11:46	AJN	E2
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:22	MSY	E
Potassium, Dissolved	24.4		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Potassium, Total	24.4		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:22	MSY	E
Selenium, Dissolved	0.011J	J	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:22	MSY	E
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:22	MSY	E
Sodium, Dissolved	293		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Sodium, Total	298		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:22	MSY	E
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:22	MSY	E
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:22	MSY	E
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:18	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:22	MSY	E

Results

Client Sample ID	MW-29	Collected	12/12/2024 15:10
Lab Sample ID	3392161009	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 20:53	CGS	D
2-Methylnaphthalene	8.3		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 20:53	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 20:53	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:53	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 20:53	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Acenaphthylene	1.1J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Acetophenone	81.6		ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 20:53	CGS	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 20:53	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 20:53	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 20:53	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 20:53	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 20:53	CGS	D
Biphenyl	0.46J	J	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:53	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 20:53	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 20:53	CGS	D
Carbazole	6.0		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D

Results

Client Sample ID	MW-29	Collected	12/12/2024 15:10
Lab Sample ID	3392161009	Lab Receipt	12/13/2024 08:54

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 20:53	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 20:53	CGS	D
Dibenzofuran	0.47J	J	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 20:53	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 20:53	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 20:53	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 20:53	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 20:53	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
Naphthalene	742		ug/L	150	65.0	SW846 8270E	100	12/24/2024 07:06	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 20:53	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 20:53	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 20:53	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D
Phenol	11.8		ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 20:53	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:53	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	92.8%	23 – 131	12/20/2024 20:53	
2,4,6-Tribromophenol	118-79-6	0*%	23 – 131	12/24/2024 07:06	17
2-Fluorobiphenyl	321-60-8	69.1%	24 – 116	12/20/2024 20:53	
2-Fluorobiphenyl	321-60-8	0*%	24 – 116	12/24/2024 07:06	16
2-Fluorophenol	367-12-4	47.9%	10 – 85	12/20/2024 20:53	
2-Fluorophenol	367-12-4	0*%	10 – 85	12/24/2024 07:06	13
Nitrobenzene-d5	4165-60-0	75.6%	32 – 125	12/20/2024 20:53	
Nitrobenzene-d5	4165-60-0	0*%	32 – 125	12/24/2024 07:06	15
Phenol-d5	4165-62-2	37%	7 – 56	12/20/2024 20:53	
Phenol-d5	4165-62-2	0*%	7 – 56	12/24/2024 07:06	14
Terphenyl-d14	98904-43-9	63.4%	41 – 145	12/20/2024 20:53	
Terphenyl-d14	98904-43-9	0*%	41 – 145	12/24/2024 07:06	18

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	500	110	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	500	170	SW846 8260D	500	12/20/2024 06:12	PDK	A

Results

Client Sample ID	MW-29	Collected	12/12/2024 15:10
Lab Sample ID	3392161009	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	500	140	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	500	145	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	1000	465	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	1000	300	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	1000	410	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2,4-Trimethylbenzene	969		ug/L	500	125	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	3500	750	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	500	140	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	500	190	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	500	160	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	500	120	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,3,5-Trimethylbenzene	870		ug/L	500	100	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	500	125	SW846 8260D	500	12/20/2024 06:12	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	500	135	SW846 8260D	500	12/20/2024 06:12	PDK	A
2-Butanone	ND	ND	ug/L	5000	900	SW846 8260D	500	12/20/2024 06:12	PDK	A
2-Hexanone	ND	ND	ug/L	2500	650	SW846 8260D	500	12/20/2024 06:12	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	2500	750	SW846 8260D	500	12/20/2024 06:12	PDK	A
Acetone	ND	ND	ug/L	5000	1550	SW846 8260D	500	12/20/2024 06:12	PDK	A
Benzene	13400		ug/L	500	115	SW846 8260D	500	12/20/2024 06:12	PDK	A
Bromochloromethane	ND	ND	ug/L	500	160	SW846 8260D	500	12/20/2024 06:12	PDK	A
Bromodichloromethane	ND	ND	ug/L	500	135	SW846 8260D	500	12/20/2024 06:12	PDK	A
Bromoform	ND	ND	ug/L	500	200	SW846 8260D	500	12/20/2024 06:12	PDK	A
Bromomethane	ND	ND,1	ug/L	500	195	SW846 8260D	500	12/20/2024 06:12	PDK	A
Carbon Disulfide	ND	ND	ug/L	500	115	SW846 8260D	500	12/20/2024 06:12	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	500	155	SW846 8260D	500	12/20/2024 06:12	PDK	A
Chlorobenzene	ND	ND	ug/L	500	95.0	SW846 8260D	500	12/20/2024 06:12	PDK	A
Chlorodibromomethane	ND	ND	ug/L	500	225	SW846 8260D	500	12/20/2024 06:12	PDK	A
Chloroethane	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 06:12	PDK	A
Chloroform	ND	ND	ug/L	500	105	SW846 8260D	500	12/20/2024 06:12	PDK	A
Chloromethane	ND	ND	ug/L	500	155	SW846 8260D	500	12/20/2024 06:12	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	500	160	SW846 8260D	500	12/20/2024 06:12	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	500	155	SW846 8260D	500	12/20/2024 06:12	PDK	A
Cyclohexane	ND	ND	ug/L	500	145	SW846 8260D	500	12/20/2024 06:12	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 06:12	PDK	A
Ethylbenzene	ND	ND	ug/L	500	170	SW846 8260D	500	12/20/2024 06:12	PDK	A
Freon 113	ND	ND	ug/L	500	130	SW846 8260D	500	12/20/2024 06:12	PDK	A
Isopropylbenzene	ND	ND	ug/L	500	110	SW846 8260D	500	12/20/2024 06:12	PDK	A
Methyl acetate	ND	ND	ug/L	1000	160	SW846 8260D	500	12/20/2024 06:12	PDK	A
Methyl cyclohexane	ND	ND	ug/L	500	150	SW846 8260D	500	12/20/2024 06:12	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 06:12	PDK	A
Methylene Chloride	ND	ND	ug/L	500	225	SW846 8260D	500	12/20/2024 06:12	PDK	A
mp-Xylene	32900		ug/L	1000	260	SW846 8260D	500	12/20/2024 06:12	PDK	A
o-Xylene	9600		ug/L	500	165	SW846 8260D	500	12/20/2024 06:12	PDK	A
Styrene	369J	J	ug/L	500	120	SW846 8260D	500	12/20/2024 06:12	PDK	A
Tetrachloroethene	ND	ND	ug/L	500	175	SW846 8260D	500	12/20/2024 06:12	PDK	A
Toluene	25300		ug/L	500	115	SW846 8260D	500	12/20/2024 06:12	PDK	A

Results

Client Sample ID	MW-29	Collected	12/12/2024 15:10
Lab Sample ID	3392161009	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	42500		ug/L	1500	330	SW846 8260D	500	12/20/2024 06:12	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	500	130	SW846 8260D	500	12/20/2024 06:12	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	500	145	SW846 8260D	500	12/20/2024 06:12	PDK	A
Trichloroethene	ND	ND	ug/L	500	165	SW846 8260D	500	12/20/2024 06:12	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	500	120	SW846 8260D	500	12/20/2024 06:12	PDK	A
Vinyl Chloride	ND	ND	ug/L	500	150	SW846 8260D	500	12/20/2024 06:12	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	12/20/2024 06:12	
4-Bromofluorobenzene	460-00-4	99.7%	79 – 114	12/20/2024 06:12	
Dibromofluoromethane	1868-53-7	94.3%	78 – 116	12/20/2024 06:12	
Toluene-d8	2037-26-5	101%	76 – 127	12/20/2024 06:12	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	ND	ND,3	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	187	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 17:36	JXK	I
Chloride	231		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 23:14	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 23:14	J1W	I
pH	9.64	5	pH_Units			S4500HB-11	1	12/19/2024 13:18	KMV	I
Specific Conductance	2070		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	452		mg/L	5.0	3.5	SW846 9056A	5	12/13/2024 23:14	J1W	I
Total Dissolved Solids	1240		mg/L	25	25	SM2540C-15	1	12/17/2024 16:35	RAG	I
Turbidity	16		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-8S	Collected	12/12/2024 14:30
Lab Sample ID	3392161010	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.20	0.065	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.20	0.065	SW846 6010C	1	01/09/2025 09:23	MSY	E
Antimony, Dissolved	ND	ND	mg/L	0.040	0.018	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Antimony, Total	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/09/2025 09:23	MSY	E
Arsenic, Dissolved	ND	ND	mg/L	0.016	0.0054	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.016	0.0067	SW846 6010C	1	01/09/2025 09:23	MSY	E
Barium, Dissolved	0.018J	J	mg/L	0.020	0.0065	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Barium, Total	0.017J	J	mg/L	0.020	0.0065	SW846 6010C	1	01/09/2025 09:23	MSY	E
Beryllium, Dissolved	ND	ND	mg/L	0.0079	0.0025	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0079	0.0025	SW846 6010C	1	01/09/2025 09:23	MSY	E
Cadmium, Dissolved	ND	ND	mg/L	0.0040	0.0013	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0040	0.0013	SW846 6010C	1	01/09/2025 09:23	MSY	E
Calcium, Dissolved	267		mg/L	0.20	0.065	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Calcium, Total	275		mg/L	0.20	0.065	SW846 6010C	1	01/09/2025 09:23	MSY	E
Chromium, Dissolved	0.0050J	J	mg/L	0.010	0.0036	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Chromium, Total	ND	ND	mg/L	0.010	0.0036	SW846 6010C	1	01/09/2025 09:23	MSY	E
Cobalt, Dissolved	ND	ND	mg/L	0.010	0.0036	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.010	0.0036	SW846 6010C	1	01/09/2025 09:23	MSY	E
Copper, Dissolved	ND	ND	mg/L	0.020	0.0065	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Copper, Total	ND	ND	mg/L	0.020	0.0065	SW846 6010C	1	01/09/2025 09:23	MSY	E
Iron, Dissolved	9.5		mg/L	0.12	0.040	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Iron, Total	10.2		mg/L	0.12	0.040	SW846 6010C	1	01/09/2025 09:23	MSY	E
Lead, Dissolved	ND	ND	mg/L	0.012	0.0040	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Lead, Total	ND	ND	mg/L	0.012	0.0040	SW846 6010C	1	01/09/2025 09:23	MSY	E
Magnesium, Dissolved	30.7		mg/L	0.20	0.065	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Magnesium, Total	31.0		mg/L	0.20	0.065	SW846 6010C	1	01/09/2025 09:23	MSY	E
Manganese, Dissolved	0.015		mg/L	0.010	0.0036	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Manganese, Total	0.021		mg/L	0.010	0.0036	SW846 6010C	1	01/09/2025 09:23	MSY	E
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:45	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:15	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Nickel, Total	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/09/2025 09:23	MSY	E
Potassium, Dissolved	6.5		mg/L	1.0	0.32	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Potassium, Total	6.6		mg/L	1.0	0.32	SW846 6010C	1	01/09/2025 09:23	MSY	E
Selenium, Dissolved	0.16		mg/L	0.040	0.013	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Selenium, Total	0.14		mg/L	0.040	0.013	SW846 6010C	1	01/09/2025 09:23	MSY	E
Silver, Dissolved	ND	ND	mg/L	0.0079	0.0025	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Silver, Total	ND	ND	mg/L	0.0079	0.0025	SW846 6010C	1	01/09/2025 09:23	MSY	E
Sodium, Dissolved	8.2		mg/L	1.0	0.32	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Sodium, Total	8.0		mg/L	1.0	0.32	SW846 6010C	1	01/09/2025 09:23	MSY	E
Thallium, Dissolved	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Thallium, Total	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/09/2025 09:23	MSY	E
Vanadium, Dissolved	ND	ND	mg/L	0.010	0.0036	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.010	0.0036	SW846 6010C	1	01/09/2025 09:23	MSY	E
Zinc, Dissolved	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/08/2025 10:19	MSY	G2
Zinc, Total	ND	ND	mg/L	0.040	0.013	SW846 6010C	1	01/09/2025 09:23	MSY	E

Results

Client Sample ID	MW-8S	Collected	12/12/2024 14:30
Lab Sample ID	3392161010	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 20:28	CGS	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 20:28	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 20:28	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:28	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 20:28	CGS	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Acenaphthylene	0.41J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 20:28	CGS	D
Anthracene	0.76J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 20:28	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 20:28	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 20:28	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 20:28	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 20:28	CGS	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 20:28	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 20:28	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 20:28	CGS	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D

Results

Client Sample ID	MW-8S	Collected	12/12/2024 14:30
Lab Sample ID	3392161010	Lab Receipt	12/13/2024 08:54

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 20:28	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 20:28	CGS	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 20:28	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 20:28	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 20:28	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 20:28	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 20:28	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
Naphthalene	1.0J	J	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 20:28	CGS	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 20:28	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 20:28	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 20:28	CGS	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 20:28	CGS	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 20:28	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	53.3%	23 – 131	12/20/2024 20:28	
2-Fluorobiphenyl	321-60-8	70.4%	24 – 116	12/20/2024 20:28	
2-Fluorophenol	367-12-4	28.4%	10 – 85	12/20/2024 20:28	
Nitrobenzene-d5	4165-60-0	80.1%	32 – 125	12/20/2024 20:28	
Phenol-d5	4165-62-2	29.2%	7 – 56	12/20/2024 20:28	
Terphenyl-d14	98904-43-9	37*%	41 – 145	12/20/2024 20:28	19

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	10.0	4.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	10.0	3.0	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	10.0	4.1	SW846 8260D	5	12/20/2024 03:29	PDK	A

Results

Client Sample ID	MW-8S	Collected	12/12/2024 14:30
Lab Sample ID	3392161010	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	35.0	7.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	5.0	1.9	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	5.0	1.0	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/20/2024 03:29	PDK	A
2-Butanone	ND	ND	ug/L	50.0	9.0	SW846 8260D	5	12/20/2024 03:29	PDK	A
2-Hexanone	ND	ND	ug/L	25.0	6.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	25.0	7.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
Acetone	ND	ND	ug/L	50.0	15.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
Benzene	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/20/2024 03:29	PDK	A
Bromochloromethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
Bromodichloromethane	ND	ND	ug/L	5.0	1.4	SW846 8260D	5	12/20/2024 03:29	PDK	A
Bromoform	ND	ND	ug/L	5.0	2.0	SW846 8260D	5	12/20/2024 03:29	PDK	A
Bromomethane	ND	ND,1	ug/L	5.0	2.0	SW846 8260D	5	12/20/2024 03:29	PDK	A
Carbon Disulfide	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/20/2024 03:29	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
Chlorobenzene	ND	ND	ug/L	5.0	0.95	SW846 8260D	5	12/20/2024 03:29	PDK	A
Chlorodibromomethane	ND	ND	ug/L	5.0	2.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
Chloroethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
Chloroform	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/20/2024 03:29	PDK	A
Chloromethane	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	5.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
Cyclohexane	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
Ethylbenzene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
Freon 113	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
Isopropylbenzene	ND	ND	ug/L	5.0	1.1	SW846 8260D	5	12/20/2024 03:29	PDK	A
Methyl acetate	ND	ND	ug/L	10.0	1.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
Methyl cyclohexane	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
Methylene Chloride	ND	ND	ug/L	5.0	2.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
mp-Xylene	ND	ND	ug/L	10.0	2.6	SW846 8260D	5	12/20/2024 03:29	PDK	A
o-Xylene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
Styrene	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/20/2024 03:29	PDK	A
Tetrachloroethene	ND	ND	ug/L	5.0	1.8	SW846 8260D	5	12/20/2024 03:29	PDK	A
Toluene	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/20/2024 03:29	PDK	A
Total Xylenes	ND	ND	ug/L	15.0	3.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	5.0	1.3	SW846 8260D	5	12/20/2024 03:29	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/20/2024 03:29	PDK	A
Trichloroethene	ND	ND	ug/L	5.0	1.7	SW846 8260D	5	12/20/2024 03:29	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	5.0	1.2	SW846 8260D	5	12/20/2024 03:29	PDK	A
Vinyl Chloride	ND	ND	ug/L	5.0	1.5	SW846 8260D	5	12/20/2024 03:29	PDK	A

Results

Client Sample ID	MW-8S	Collected	12/12/2024 14:30
Lab Sample ID	3392161010	Lab Receipt	12/13/2024 08:54

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/20/2024 03:29	
4-Bromofluorobenzene	460-00-4	93.9%	79 – 114	12/20/2024 03:29	
Dibromofluoromethane	1868-53-7	95.1%	78 – 116	12/20/2024 03:29	
Toluene-d8	2037-26-5	95.8%	76 – 127	12/20/2024 03:29	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	29	3	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	326	4	mg/L	5	5	SM2320B-2011	1	12/26/2024 18:34	JXK	I
Chloride	3.1J	J	mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 23:27	J1W	I
Nitrate-N	18.5		mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 23:27	J1W	I
pH	8.30	5	pH_Units			S4500HB-11	1	12/19/2024 13:34	KMV	I
Specific Conductance	1300		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	316		mg/L	5.0	3.5	SW846 9056A	5	12/13/2024 23:27	J1W	I
Total Dissolved Solids	992		mg/L	25	25	SM2540C-15	1	12/13/2024 16:45	RAG	I
Turbidity	2.0		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

Client Sample ID	MW-8D	Collected	12/12/2024 15:45
Lab Sample ID	3392161011	Lab Receipt	12/13/2024 08:54

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:24	MSY	E
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:24	MSY	E
Arsenic, Dissolved	0.013		mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Arsenic, Total	0.014		mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:24	MSY	E
Barium, Dissolved	0.056		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Barium, Total	0.051		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:24	MSY	E
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:24	MSY	E
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:24	MSY	E
Calcium, Dissolved	193		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Calcium, Total	194		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:24	MSY	E
Chromium, Dissolved	0.0022J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:24	MSY	E
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:24	MSY	E
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:24	MSY	E
Iron, Dissolved	0.62		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Iron, Total	1.4		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:24	MSY	E
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:24	MSY	E
Magnesium, Dissolved	82.0		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Magnesium, Total	81.5		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:24	MSY	E
Manganese, Dissolved	0.26		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Manganese, Total	0.26		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:24	MSY	E
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/17/2024 12:36	AJN	G2
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:09	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:24	MSY	E
Potassium, Dissolved	6.0		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Potassium, Total	5.6		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:24	MSY	E
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:24	MSY	E
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:24	MSY	E
Sodium, Dissolved	70.0		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Sodium, Total	54.2		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:24	MSY	E
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:24	MSY	E
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:24	MSY	E
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:20	MSY	G3
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:24	MSY	E

Results

Client Sample ID	MW-8D	Collected	12/12/2024 15:45
Lab Sample ID	3392161011	Lab Receipt	12/13/2024 08:54

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,4-Dimethylphenol	60.3		ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 21:18	CGS	D
2-Methylnaphthalene	6.0		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 21:18	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 21:18	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 21:18	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 21:18	CGS	D
Acenaphthene	7.4		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Acenaphthylene	5.7		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 21:18	CGS	D
Anthracene	1.1J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 21:18	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 21:18	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 21:18	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 21:18	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 21:18	CGS	D
Biphenyl	3.0J	J	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 21:18	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 21:18	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 21:18	CGS	D
Carbazole	104		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D

Results

Client Sample ID	MW-8D	Collected	12/12/2024 15:45
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 21:18	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 21:18	CGS	D
Dibenzofuran	12.0		ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 21:18	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Fluoranthene	1.6		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Fluorene	10.2		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 21:18	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 21:18	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 21:18	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 21:18	CGS	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
Naphthalene	264		ug/L	6.0	2.6	SW846 8270E	4	12/24/2024 07:31	M1O	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 21:18	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 21:18	CGS	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 21:18	CGS	D
Phenanthrene	4.5		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D
Phenol	2.9J	J	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 21:18	CGS	D
Pyrene	0.71J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 21:18	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	65.8%	23 – 131	12/20/2024 21:18	
2,4,6-Tribromophenol	118-79-6	65.6%	23 – 131	12/24/2024 07:31	
2-Fluorobiphenyl	321-60-8	85.8%	24 – 116	12/20/2024 21:18	
2-Fluorobiphenyl	321-60-8	92.4%	24 – 116	12/24/2024 07:31	
2-Fluorophenol	367-12-4	32.1%	10 – 85	12/20/2024 21:18	
2-Fluorophenol	367-12-4	33.8%	10 – 85	12/24/2024 07:31	
Nitrobenzene-d5	4165-60-0	112%	32 – 125	12/20/2024 21:18	
Nitrobenzene-d5	4165-60-0	116%	32 – 125	12/24/2024 07:31	
Phenol-d5	4165-62-2	36.1%	7 – 56	12/20/2024 21:18	
Phenol-d5	4165-62-2	37.4%	7 – 56	12/24/2024 07:31	
Terphenyl-d14	98904-43-9	42.1%	41 – 145	12/20/2024 21:18	
Terphenyl-d14	98904-43-9	46%	41 – 145	12/24/2024 07:31	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	20.0	4.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	20.0	6.8	SW846 8260D	20	12/20/2024 04:09	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	20.0	5.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	20.0	5.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	40.0	18.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	40.0	12.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	40.0	16.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2,4-Trimethylbenzene	87.7		ug/L	20.0	5.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	140	30.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	20.0	5.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	20.0	7.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	20.0	6.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	20.0	4.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,3,5-Trimethylbenzene	7.0J	J	ug/L	20.0	4.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	20.0	5.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	20.0	5.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
2-Butanone	ND	ND	ug/L	200	36.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
2-Hexanone	ND	ND	ug/L	100	26.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	100	30.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
Acetone	ND	ND	ug/L	200	62.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
Benzene	750		ug/L	20.0	4.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Bromochloromethane	ND	ND	ug/L	20.0	6.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
Bromodichloromethane	ND	ND	ug/L	20.0	5.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
Bromoform	ND	ND	ug/L	20.0	8.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
Bromomethane	ND	ND,1	ug/L	20.0	7.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Carbon Disulfide	ND	ND	ug/L	20.0	4.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	20.0	6.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
Chlorobenzene	ND	ND	ug/L	20.0	3.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Chlorodibromomethane	ND	ND	ug/L	20.0	9.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
Chloroethane	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Chloroform	ND	ND	ug/L	20.0	4.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
Chloromethane	ND	ND	ug/L	20.0	6.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	20.0	6.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	20.0	6.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
Cyclohexane	ND	ND	ug/L	20.0	5.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Ethylbenzene	94.7		ug/L	20.0	6.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Freon 113	ND	ND	ug/L	20.0	5.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
Isopropylbenzene	6.9J	J	ug/L	20.0	4.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
Methyl acetate	ND	ND	ug/L	40.0	6.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
Methyl cyclohexane	ND	ND	ug/L	20.0	6.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Methylene Chloride	ND	ND	ug/L	20.0	9.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
mp-Xylene	20.1J	J	ug/L	40.0	10.4	SW846 8260D	20	12/20/2024 04:09	PDK	A
o-Xylene	14.4J	J	ug/L	20.0	6.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Styrene	ND	ND	ug/L	20.0	4.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Tetrachloroethene	ND	ND	ug/L	20.0	7.0	SW846 8260D	20	12/20/2024 04:09	PDK	A
Toluene	37.6		ug/L	20.0	4.6	SW846 8260D	20	12/20/2024 04:09	PDK	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	34.5J	J	ug/L	60.0	13.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	20.0	5.2	SW846 8260D	20	12/20/2024 04:09	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	20.0	5.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Trichloroethene	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	12/20/2024 04:09	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	20.0	4.8	SW846 8260D	20	12/20/2024 04:09	PDK	A
Vinyl Chloride	ND	ND	ug/L	20.0	6.0	SW846 8260D	20	12/20/2024 04:09	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99%	62 – 133	12/20/2024 04:09	
4-Bromofluorobenzene	460-00-4	95.3%	79 – 114	12/20/2024 04:09	
Dibromofluoromethane	1868-53-7	94%	78 – 116	12/20/2024 04:09	
Toluene-d8	2037-26-5	96.2%	76 – 127	12/20/2024 04:09	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	24	3	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	489	4	mg/L	50	50	SM2320B-2011	10	12/26/2024 18:44	JXK	I
Chloride	96.2		mg/L	5.0	2.2	SW846 9056A	5	12/13/2024 23:39	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/13/2024 23:39	J1W	I
pH	8.35	5	pH_Units			S4500HB-11	1	12/19/2024 13:51	KMV	I
Specific Conductance	1950		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	527		mg/L	10.0	7.0	SW846 9056A	10	12/18/2024 00:40	J1W	I
Total Dissolved Solids	1180		mg/L	25	25	SM2540C-15	1	12/13/2024 16:45	RAG	I
Turbidity	40		NTU	0.30	0.30	SM2130B-2011	1	12/13/2024 13:20	NPF	I

Results

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VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 00:46	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 00:46	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 00:46	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 00:46	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 00:46	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 00:46	PDK	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 00:46	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 00:46	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 00:46	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 00:46	PDK	A
Bromomethane	ND	ND,1	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 00:46	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 00:46	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 00:46	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 00:46	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 00:46	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 00:46	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 00:46	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 00:46	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 00:46	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 00:46	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 00:46	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 00:46	PDK	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 00:46	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 00:46	PDK	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 00:46	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 00:46	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 00:46	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 00:46	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 00:46	PDK	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 00:46	PDK	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 00:46	PDK	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 00:46	PDK	A

Results

Client Sample ID	Trip Blank	Collected	12/12/2024 15:45
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 00:46	PDK	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 00:46	PDK	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 00:46	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 00:46	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 00:46	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 00:46	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 00:46	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 00:46	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/20/2024 00:46	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	12/20/2024 00:46	
Dibromofluoromethane	1868-53-7	94.4%	78 – 116	12/20/2024 00:46	
Toluene-d8	2037-26-5	98.9%	76 – 127	12/20/2024 00:46	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392161001	MW-33	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392161002	MW-32	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392161003	MW-19S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392161004	MW-19D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392161005	MW-11S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392161006	MW-11D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392161007	MW-11D-Dup	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392161008	MW-31	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392161009	MW-29	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392161010	MW-8S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392161011	MW-8D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392161012	Trip Blank	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1356007	Prep Method	SW846 3015A
Date	12/16/2024 08:48	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392161007	3392161008	3392161001	3392161002
3392161003	3392161004	3392161005	3392161006

Method Blank 3918335 (MB) Created on 12/16/2024 01:34 For QC Batch 1356007

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	0.024J	mg/L	0.067	J
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	0.014J	mg/L	0.022	J
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3918336 (LCS) Created on 12/16/2024 01:34 For QC Batch 1356007

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.1		1.10	101	80 - 120		
Antimony, Total	7440-36-0	LCS	0.23		0.22	105	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	105	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	104	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.23		0.22	104	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.11		0.11	103	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	96.6	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	104	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	106	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	101	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Iron, Total	7439-89-6	LCS	1.2		1.10	105	80 - 120		
Lead, Total	7439-92-1	LCS	0.11		0.11	103	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	104	80 - 120		
Manganese, Total	7439-96-5	LCS	0.11		0.11	99.5	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	105	80 - 120		
Potassium, Total	7440-09-7	LCS	22		22.20	98.9	80 - 120		
Selenium, Total	7782-49-2	LCS	1.1		1.10	102	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	106	80 - 120		
Sodium, Total	7440-23-5	LCS	22.6		22.20	102	80 - 120		
Thallium, Total	7440-28-0	LCS	0.11		0.11	99.1	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.058		0.0560	105	80 - 120		
Zinc, Total	7440-66-6	LCS	0.57		0.56	103	80 - 120		

QC Batch

QC Batch	1356008	Prep Method	SW846 3015A
Date	12/16/2024 10:12	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392161009 3392161010 3392161011

Matrix Spike 3918341 (MS) 3392003002 (non-Project Sample) For QC Batch 1356008

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918342 (MSD) 3392003002 (non-Project Sample) For QC Batch 1356008

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	MS	1.2	0.0012	1.10	105	75 - 125		
Aluminum, Total	7429-90-5	MSD	1.1	0.0012	1.10	103	75 - 125	RPD 1.71 (Max-20)	
Antimony, Total	7440-36-0	MS	0.14	0	0.22	61.7*	75 - 125		
Antimony, Total	7440-36-0	MSD	0.14	0	0.22	61.4*	75 - 125	RPD 0.41 (Max-20)	
Arsenic, Total	7440-38-2	MS	0.12	0.0081	0.11	104	75 - 125		
Arsenic, Total	7440-38-2	MSD	0.12	0.0081	0.11	105	75 - 125	RPD 0.99 (Max-20)	
Barium, Total	7440-39-3	MS	1.2	0.0260	1.10	105	75 - 125		
Barium, Total	7440-39-3	MSD	1.2	0.0260	1.10	103	75 - 125	RPD 1.52 (Max-20)	
Beryllium, Total	7440-41-7	MS	0.24	0	0.22	107	75 - 125		
Beryllium, Total	7440-41-7	MSD	0.23	0	0.22	105	75 - 125	RPD 1.65 (Max-20)	
Cadmium, Total	7440-43-9	MS	0.11	0	0.11	103	75 - 125		
Cadmium, Total	7440-43-9	MSD	0.11	0	0.11	102	75 - 125	RPD 1.56 (Max-20)	
Calcium, Total	7440-70-2	MS	124	124	1.10	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	124	124	1.10	NC	75 - 125	RPD 0.25 (Max-20)	
Chromium, Total	7440-47-3	MS	0.12	0.0010	0.11	105	75 - 125		
Chromium, Total	7440-47-3	MSD	0.11	0.0010	0.11	103	75 - 125	RPD 2.01 (Max-20)	
Cobalt, Total	7440-48-4	MS	1.1	0	1.10	101	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cobalt, Total	7440-48-4	MSD	1.1	0	1.10	101	75 - 125	RPD 0.59 (Max-20)	
Copper, Total	7440-50-8	MS	1.1	0.0010	1.10	102	75 - 125		
Copper, Total	7440-50-8	MSD	1.1	0.0010	1.10	101	75 - 125	RPD 0.57 (Max-20)	
Iron, Total	7439-89-6	MS	1.2	0.0590	1.10	100	75 - 125		
Iron, Total	7439-89-6	MSD	1.2	0.0590	1.10	101	75 - 125	RPD 0.76 (Max-20)	
Lead, Total	7439-92-1	MS	0.12	0	0.11	105	75 - 125		
Lead, Total	7439-92-1	MSD	0.11	0	0.11	101	75 - 125	RPD 4.27 (Max-20)	
Magnesium, Total	7439-95-4	MS	47.8	46.90	1.10	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	48	46.90	1.10	NC	75 - 125	RPD 0.41 (Max-20)	
Manganese, Total	7439-96-5	MS	0.48	0.36	0.11	105	75 - 125		
Manganese, Total	7439-96-5	MSD	0.47	0.36	0.11	103	75 - 125	RPD 0.47 (Max-20)	
Nickel, Total	7440-02-0	MS	1.1	0	1.10	100	75 - 125		
Nickel, Total	7440-02-0	MSD	1.1	0	1.10	99.3	75 - 125	RPD 0.63 (Max-20)	
Potassium, Total	7440-09-7	MS	39.5	14.60	22.20	112	75 - 125		
Potassium, Total	7440-09-7	MSD	37.3	14.60	22.20	102	75 - 125	RPD 5.69 (Max-20)	
Selenium, Total	7782-49-2	MS	1.2	0	1.10	105	75 - 125		
Selenium, Total	7782-49-2	MSD	1.2	0	1.10	104	75 - 125	RPD 0.67 (Max-20)	
Silver, Total	7440-22-4	MS	0.12	0	0.11	107	75 - 125		
Silver, Total	7440-22-4	MSD	0.12	0	0.11	107	75 - 125	RPD 0.09 (Max-20)	
Sodium, Total	7440-23-5	MS	47.3	22.40	22.20	112	75 - 125		
Sodium, Total	7440-23-5	MSD	45.3	22.40	22.20	103	75 - 125	RPD 4.35 (Max-20)	
Thallium, Total	7440-28-0	MS	0.11	0	0.11	101	75 - 125		
Thallium, Total	7440-28-0	MSD	0.11	0	0.11	99.7	75 - 125	RPD 1.10 (Max-20)	
Vanadium, Total	7440-62-2	MS	0.056	0	0.0560	101	75 - 125		
Vanadium, Total	7440-62-2	MSD	0.055	0	0.0560	99.2	75 - 125	RPD 1.60 (Max-20)	
Zinc, Total	7440-66-6	MS	0.55	0	0.56	98.3	75 - 125		
Zinc, Total	7440-66-6	MSD	0.54	0	0.56	97.9	75 - 125	RPD 0.43 (Max-20)	

Method Blank 3918339 (MB) Created on 12/16/2024 01:37 For QC Batch 1356008

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	0.0036J	mg/L	0.0056	J
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	0.030J	mg/L	0.067	J
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3918340 (LCS) Created on 12/16/2024 01:37 For QC Batch 1356008

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	105	80 - 120		
Antimony, Total	7440-36-0	LCS	0.19		0.22	83.6	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	106	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	109	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	109	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	108	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	97.2	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	108	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	107	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	101	80 - 120		
Iron, Total	7439-89-6	LCS	1.2		1.10	106	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	109	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	111	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	111	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	106	80 - 120		
Potassium, Total	7440-09-7	LCS	23.3		22.20	105	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	106	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	106	80 - 120		
Sodium, Total	7440-23-5	LCS	23.7		22.20	107	80 - 120		
Thallium, Total	7440-28-0	LCS	0.11		0.11	96.1	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.057		0.0560	103	80 - 120		
Zinc, Total	7440-66-6	LCS	0.59		0.56	106	80 - 120		

QC Batch

QC Batch	1356411	Prep Method	SW846 7470A
Date	12/17/2024 07:40	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392161009 3392161001

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3919116 (MS) 3392171007 (non-Project Sample) For QC Batch 1356411

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919117 (MSD) 3392171007 (non-Project Sample) For QC Batch 1356411

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0038	0.000029	0.0050	75.2	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0038	0.000029	0.0050	76	70 - 130	RPD 1.05 (Max-20)	

Matrix Spike 3919118 (MS) 3391510001 (non-Project Sample) For QC Batch 1356411

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919119 (MSD) 3391510001 (non-Project Sample) For QC Batch 1356411

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0046	0.000090	0.0050	91	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0046	0.000090	0.0050	90.6	70 - 130	RPD 0.43 (Max-20)	

Method Blank 3919114 (MB) Created on 12/17/2024 06:54 For QC Batch 1356411

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3919115 (LCS) Created on 12/17/2024 06:54 For QC Batch 1356411

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0019		0.0020	96.5	85 - 115		

QC Batch

QC Batch	1356412	Prep Method	SW846 7470A
Date	12/17/2024 07:40	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392161006 3392161011 3392161003

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3919124 (MS) 3391836002 (non-Project Sample) For QC Batch 1356412

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919125 (MSD) 3391836002 (non-Project Sample) For QC Batch 1356412

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0048	0.000027	0.0050	95.3	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0048	0.000027	0.0050	95.9	70 - 130	RPD 0.62 (Max-20)	

Method Blank 3919120 (MB) Created on 12/17/2024 06:57 For QC Batch 1356412

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3919121 (LCS) Created on 12/17/2024 06:57 For QC Batch 1356412

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0017		0.0020	86.5	85 - 115		

QC Batch

QC Batch	1356801	Prep Method	SW846 7470A
Date	12/18/2024 07:29	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392161006	3392161007	3392161008	3392161010
3392161011	3392161002	3392161003	3392161004
3392161005			

Matrix Spike 3919761 (MS) 3392316002 (non-Project Sample) For QC Batch 1356801

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919762 (MSD) 3392316002 (non-Project Sample) For QC Batch 1356801

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0052	0.000013	0.0050	103	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0.000013	0.0050	96.1	70 - 130	RPD 7.01 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Method Blank 3919757 (MB) Created on 12/18/2024 07:09 For QC Batch 1356801

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3919758 (LCS) Created on 12/18/2024 07:09 For QC Batch 1356801

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.002		0.0020	97.5	85 - 115		

Matrix Spike 3919759 (MS) 3392161003 For QC Batch 1356801

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919760 (MSD) 3392161003 For QC Batch 1356801

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0052	0	0.0050	103	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0	0.0050	96	70 - 130	RPD 7.23 (Max-20)	

QC Batch

QC Batch	1356803	Prep Method	SW846 7470A
Date	12/18/2024 07:29	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392161007	3392161008	3392161009	3392161010
3392161001	3392161002	3392161004	3392161005

Matrix Spike 3919770 (MS) 3392207005 (non-Project Sample) For QC Batch 1356803

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919771 (MSD) 3392207005 (non-Project Sample) For QC Batch 1356803

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.003	0.000003	0.0050	60.3*	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0029	0.000003	0.0050	57.5*	70 - 130	RPD 4.75 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Method Blank 3919766 (MB) Created on 12/18/2024 07:12 For QC Batch 1356803

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3919767 (LCS) Created on 12/18/2024 07:12 For QC Batch 1356803

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0019		0.0020	97	85 - 115		

Matrix Spike 3919768 (MS) 3392161007 For QC Batch 1356803

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919769 (MSD) 3392161007 For QC Batch 1356803

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0045	0	0.0050	89.4	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0046	0	0.0050	92.6	70 - 130	RPD 3.52 (Max-20)	

QC Batch

QC Batch	1363881	Prep Method	SW846 3015A
Date	01/03/2025 05:05	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161010	3392161001	3392161011	3392161002
3392161003	3392161004	3392161005	

Matrix Spike 3925461 (MS) 3391836012 (non-Project Sample) For QC Batch 1363881

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3925462 (MSD) 3391836012 (non-Project Sample) For QC Batch 1363881

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.1	0	1.10	102	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.1	0	1.10	103	75 - 125	RPD 0.89 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.24	0.0059	0.22	106	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.25	0.0059	0.22	108	75 - 125	RPD 1.28 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0	0.11	106	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.12	0	0.11	111	75 - 125	RPD 4.15 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0480	1.10	101	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.2	0.0480	1.10	102	75 - 125	RPD 0.77 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.23	0	0.22	102	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.23	0	0.22	103	75 - 125	RPD 0.73 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000110	0.11	98.6	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000110	0.11	99.6	75 - 125	RPD 1.01 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	341	341	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	343	341	1.10	NC	75 - 125	RPD 0.54 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.11	0.0024	0.11	101	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0024	0.11	101	75 - 125	RPD 0.19 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	100	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	102	75 - 125	RPD 1.60 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.1	0.0039	1.10	102	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0039	1.10	104	75 - 125	RPD 1.99 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	14.3	13.10	1.10	NC	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	14.4	13.10	1.10	NC	75 - 125	RPD 1.11 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.11	0	0.11	96.2	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.1	0	0.11	93.1	75 - 125	RPD 3.28 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	46.5	45.70	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	46.8	45.70	1.10	NC	75 - 125	RPD 0.64 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.94	0.81	0.11	NC	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.93	0.81	0.11	NC	75 - 125	RPD 0.29 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0	1.10	99.2	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0	1.10	101	75 - 125	RPD 1.81 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	39	16.10	22.20	103	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	39	16.10	22.20	103	75 - 125	RPD 0.18 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.2	0.0024	1.10	107	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.2	0.0024	1.10	107	75 - 125	RPD 0.17 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	108	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	109	75 - 125	RPD 1.11 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	101	78.10	22.20	102	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	101	78.10	22.20	103	75 - 125	RPD 0.18 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.097	0	0.11	87.1	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.1	0	0.11	94.5	75 - 125	RPD 8.15 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.052	0	0.0560	93	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.053	0	0.0560	94.6	75 - 125	RPD 1.71 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.54	0	0.56	97.1	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.55	0	0.56	98.3	75 - 125	RPD 1.21 (Max-20)	

Method Blank 3925459 (MB) Created on 01/03/2025 00:19 For QC Batch 1363881

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3925460 (LCS) Created on 01/03/2025 00:19 For QC Batch 1363881

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.1		1.10	102	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.24		0.22	106	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.11		0.11	98.3	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	105	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.23		0.22	106	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	105	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.1		1.10	98.6	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	106	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	108	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	103	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	105	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	104	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	105	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	116	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	107	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	22.6		22.20	102	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	107	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.2		22.20	104	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	98.4	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Vanadium, Dissolved	7440-62-2_D	LCS	0.055		0.0560	99.2	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.6		0.56	108	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1357307	Prep Method	SW846 3510C
Date	12/19/2024 08:40	Analysis Method	SW846 8270E
Tech.	DEC		

Associated Samples

3392161007	3392161008	3392161009	3392161010
3392161001	3392161011	3392161002	3392161003
3392161004	3392161005	3392161006	

Matrix Spike 3920477 (MS) 3392508003 (non-Project Sample) For QC Batch 1357307

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920478 (MSD) 3392508003 (non-Project Sample) For QC Batch 1357307

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2,4,5-Trichlorophenol	95-95-4	MS	454	0	500	90.9	44 - 148		
2,4,5-Trichlorophenol	95-95-4	MSD	373	0	500	74.7	44 - 148	RPD 19.60 (Max-23)	
2,4,6-Trichlorophenol	88-06-2	MS	459	0	500	91.9	41 - 148		
2,4,6-Trichlorophenol	88-06-2	MSD	407	0	500	81.3	41 - 148	RPD 12.20 (Max-23)	
2,4-Dinitrotoluene	121-14-2	MS	213	0	250	85.1	49 - 138		
2,4-Dinitrotoluene	121-14-2	MSD	234	0	250	93.6	49 - 138	RPD 9.51 (Max-22)	
Hexachlorobenzene	118-74-1	MS	159	0	250	63.8	59 - 109		
Hexachlorobenzene	118-74-1	MSD	155	0	250	61.9	59 - 109	RPD 3.02 (Max-21)	
Hexachlorobutadiene	87-68-3	MS	115	0	250	46	5 - 126		
Hexachlorobutadiene	87-68-3	MSD	114	0	250	45.6	5 - 126	RPD 0.93 (Max-30)	
Hexachloroethane	67-72-1	MS	118	0	250	47.4	5 - 111		
Hexachloroethane	67-72-1	MSD	130	0	250	51.8	5 - 111	RPD 8.91 (Max-30)	
mp-Cresol	108394/106445	MS	277	0	500	55.3	28 - 128		
mp-Cresol	108394/106445	MSD	290	0	500	57.9	28 - 128	RPD 4.56 (Max-20)	
Naphthalene	91-20-3	MS	163	0	250	65.2	21 - 123		
Naphthalene	91-20-3	MSD	176	0	250	70.2	21 - 123	RPD 7.46 (Max-30)	
Nitrobenzene	98-95-3	MS	194	0	250	77.8	41 - 128		
Nitrobenzene	98-95-3	MSD	210	0	250	83.9	41 - 128	RPD 7.52 (Max-19)	
o-Cresol	95-48-7	MS	133	0	500	26.6*	34 - 136		
o-Cresol	95-48-7	MSD	148	0	500	29.6*	34 - 136	RPD 10.60 (Max-23)	
Pentachlorophenol	87-86-5	MS	385	0	500	77	41 - 149		
Pentachlorophenol	87-86-5	MSD	348	0	500	69.7	41 - 149	RPD 10 (Max-28)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	493	500	98.7	23 - 131	
2,4,6-Tribromophenol	118-79-6	MSD	492	500	98.4	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	160	250	63.9	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	168	250	67.2	24 - 116	
2-Fluorophenol	367-12-4	MS	278	500	55.7	10 - 85	
2-Fluorophenol	367-12-4	MSD	276	500	55.1	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	214	250	85.6	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	243	250	97.2	32 - 125	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Phenol-d5	4165-62-2	MS	219	500	43.7	7 - 56	
Phenol-d5	4165-62-2	MSD	246	500	49.3	7 - 56	
Terphenyl-d14	98904-43-9	MS	108	250	43	41 - 145	
Terphenyl-d14	98904-43-9	MSD	73.5	250	29.4*	41 - 145	

Method Blank 3920475 (MB) Created on 12/19/2024 06:50 For QC Batch 1357307

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	65.1	100	65.1	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	31.8	50	63.6	24 - 116	
2-Fluorophenol	367-12-4	BLK	38.7	100	38.7	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	38.4	50	76.7	32 - 125	
Phenol-d5	4165-62-2	BLK	33.4	100	33.4	7 - 56	
Terphenyl-d14	98904-43-9	BLK	36	50	72	41 - 145	

Lab Control Standard 3920476 (LCS) Created on 12/19/2024 06:50 For QC Batch 1357307

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	25.1		50	50.1	18 - 124		
1,4-Dioxane	123-91-1	LCS	24.7		50	49.4	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	85.1		100	85.1	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	87.9		100	87.9	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	83.7		100	83.7	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	79.1		100	79.1	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	101		100	101	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	80.5		100	80.5	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	46.3		50	92.6	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	50		50	100	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	31.5		50	63.1	27 - 125		
2-Chlorophenol	95-57-8	LCS	74.9		100	74.9	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	86.4		100	86.4	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	29.2		50	58.5	22 - 124		
2-Nitroaniline	88-74-4	LCS	46.2		50	92.5	55 - 138		
2-Nitrophenol	88-75-5	LCS	66.5		100	66.5	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	51		100	51	38 - 115		
3-Nitroaniline	99-09-2	LCS	43.5		50	87.1	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	38.6		50	77.3	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	88		100	88	46 - 144		
4-Chloroaniline	106-47-8	LCS	29.6		50	59.2	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	36.6		50	73.3	38 - 128		
4-Nitroaniline	100-01-6	LCS	48.8		50	97.7	53 - 124		
4-Nitrophenol	100-02-7	LCS	56		100	56	5 - 108		
Acenaphthene	83-32-9	LCS	36.9		50	73.9	36 - 130		
Acenaphthylene	208-96-8	LCS	33.9		50	67.7	39 - 130		
Acetophenone	98-86-2	LCS	38.9		50	77.8	49 - 117		
Anthracene	120-12-7	LCS	46.9		50	93.9	48 - 133		
Atrazine	1912-24-9	LCS	52.3		50	105	44 - 149		
Benzaldehyde	100-52-7	LCS	43		50	86.1	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	46.5		50	93.1	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	48.5		50	97	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	47.6		50	95.3	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	52.9		50	106	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	47.9		50	95.7	52 - 130		
Biphenyl	92-52-4	LCS	31.8		50	63.6	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	44.9		50	89.8	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	40.8		50	81.6	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	37.7		50	75.3	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	43.5		50	86.9	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	45.6		50	91.2	50 - 137		
Caprolactam	105-60-2	LCS	18.2		50	36.4	5 - 118		
Carbazole	86-74-8	LCS	48.9		50	97.7	52 - 139		
Chrysene	218-01-9	LCS	49		50	98.1	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	50		50	100	56 - 130		
Dibenzofuran	132-64-9	LCS	37.5		50	75	39 - 133		
Diethylphthalate	84-66-2	LCS	46.9		50	93.9	45 - 132		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dimethylphthalate	131-11-3	LCS	45.1		50	90.2	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	49.3		50	98.6	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	45.1		50	90.2	35 - 141		
Fluoranthene	206-44-0	LCS	48.4		50	96.8	49 - 132		
Fluorene	86-73-7	LCS	40.3		50	80.6	42 - 131		
Hexachlorobenzene	118-74-1	LCS	41.8		50	83.5	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	22.1		50	44.1	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	12.6		50	25.1	5 - 97		
Hexachloroethane	67-72-1	LCS	20.8		50	41.7	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	48		50	96.1	55 - 126		
Isophorone	78-59-1	LCS	38.3		50	76.6	45 - 129		
mp-Cresol	108394/106445	LCS	78.4		100	78.4	28 - 128		
Naphthalene	91-20-3	LCS	29.5		50	59	21 - 123		
Nitrobenzene	98-95-3	LCS	40.1		50	80.3	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	43.6		50	87.1	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	55		50	110	58 - 125		
o-Cresol	95-48-7	LCS	78.2		100	78.2	34 - 136		
Pentachlorophenol	87-86-5	LCS	88.6		100	88.6	41 - 149		
Phenanthrene	85-01-8	LCS	44.8		50	89.5	46 - 131		
Phenol	108-95-2	LCS	45.5		100	45.5	5 - 111		
Pyrene	129-00-0	LCS	44.2		50	88.3	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	94.3	100	94.3	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	42.4	50	84.8	24 - 116	
2-Fluorophenol	367-12-4	LCS	54.8	100	54.8	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	45	50	90	32 - 125	
Phenol-d5	4165-62-2	LCS	44	100	44	7 - 56	
Terphenyl-d14	98904-43-9	LCS	39.2	50	78.3	41 - 145	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1357890	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3392161007	3392161008	3392161009	3392161010
3392161001	3392161011	3392161012	3392161002
3392161003	3392161004	3392161005	3392161006

Method Blank 3921272 (MB) Created on 12/19/2024 23:03 For QC Batch 1357890

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.7	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	28.5	30	95.1	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.3	30	94.3	78 - 116	
Toluene-d8	2037-26-5	BLK	29.1	30	97.1	76 - 127	

Lab Control Standard 3921273 (LCS) Created on 12/19/2024 23:03 For QC Batch 1357890

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	20.4		20	102	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	19.4		20	97.1	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	18.7		20	93.4	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.1		20	95.4	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	20.4		20	102	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	21.1		20	105	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.7		20	108	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	21.5		20	107	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.9		20	105	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.4		20	92	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	19.2		20	96.2	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20		20	100	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	18.4		20	92	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	18.4		20	92.1	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.2		20	106	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.3		20	102	81 - 118		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dichlorobenzene	106-46-7	LCS	20.2		20	101	81 - 116		
2-Butanone	78-93-3	LCS	97.3		100	97.3	50 - 152		
2-Hexanone	591-78-6	LCS	104		100	104	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	102		100	102	71 - 146		
Acetone	67-64-1	LCS	99.6		100	99.6	40 - 151		
Benzene	71-43-2	LCS	19.1		20	95.3	80 - 124		
Bromochloromethane	74-97-5	LCS	18.8		20	93.9	73 - 117		
Bromodichloromethane	75-27-4	LCS	18.8		20	93.9	79 - 126		
Bromoform	75-25-2	LCS	18		20	90	70 - 123		
Bromomethane	74-83-9	LCS	15.2		20	75.8	45 - 148		
Carbon Disulfide	75-15-0	LCS	18.4		20	92.1	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.9		20	99.6	62 - 132		
Chlorobenzene	108-90-7	LCS	19.3		20	96.5	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18.2		20	91.2	77 - 122		
Chloroethane	75-00-3	LCS	10.8		20	53.8	51 - 142		
Chloroform	67-66-3	LCS	17.9		20	89.3	78 - 122		
Chloromethane	74-87-3	LCS	18.4		20	92.2	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	19.5		20	97.6	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.2		20	91.1	81 - 121		
Cyclohexane	110-82-7	LCS	22.4		20	112	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	21.7		20	108	17 - 166		
Ethylbenzene	100-41-4	LCS	20.6		20	103	80 - 124		
Freon 113	76-13-1	LCS	21.8		20	109	50 - 130		
Isopropylbenzene	98-82-8	LCS	23		20	115	73 - 129		
Methyl acetate	79-20-9	LCS	20.3		20	102	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22.7		20	113	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	19.1		20	95.4	69 - 115		
Methylene Chloride	75-09-2	LCS	18.1		20	90.5	76 - 121		
mp-Xylene	108383/106423	LCS	41		40	102	79 - 125		
o-Xylene	95-47-6	LCS	19.7		20	98.6	79 - 124		
Styrene	100-42-5	LCS	20.4		20	102	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.6		20	97.8	72 - 124		
Toluene	108-88-3	LCS	19.8		20	98.8	80 - 125		
Total Xylenes	1330-20-7	LCS	60.7		60	101	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	19.4		20	96.9	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.5		20	97.3	78 - 126		
Trichloroethene	79-01-6	LCS	18.9		20	94.6	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	17.8		20	89	38 - 123		
Vinyl Chloride	75-01-4	LCS	19.3		20	96.3	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.7	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.1	30	97.1	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.2	30	97.4	78 - 116	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Toluene-d8	2037-26-5	LCS	28.9	30	96.4	76 - 127	

Matrix Spike 3921290 (MS) 3392161002 For QC Batch 1357890

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	18.2	0	20	91.1	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	MS	18	0	20	90.2	74 - 135		
1,1,2-Trichloroethane	79-00-5	MS	17.5	0	20	87.6	82 - 126		
1,1-Dichloroethane	75-34-3	MS	18.7	0	20	93.4	78 - 124		
1,1-Dichloroethene	75-35-4	MS	17.4	0	20	87.2	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	MS	17	0	20	85.1	61 - 126		
1,2,3-Trichloropropane	96-18-4	MS	19.6	0	20	98.2	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	MS	18.2	0	20	91.2	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	MS	19.4	0	20	97.2	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	MS	15.3	0	20	76.3	59 - 133		
1,2-Dibromoethane	106-93-4	MS	18	0	20	90.1	80 - 124		
1,2-Dichlorobenzene	95-50-1	MS	18.7	0	20	93.4	82 - 118		
1,2-Dichloroethane	107-06-2	MS	18.2	0	20	90.9	70 - 133		
1,2-Dichloropropane	78-87-5	MS	18.7	0	20	93.5	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	MS	19.5	0	20	97.4	76 - 125		
1,3-Dichlorobenzene	541-73-1	MS	18.8	0	20	94.1	81 - 118		
1,4-Dichlorobenzene	106-46-7	MS	18.7	0	20	93.3	81 - 116		
2-Butanone	78-93-3	MS	87.2	0	100	87.2	50 - 152		
2-Hexanone	591-78-6	MS	90.7	0	100	90.7	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	90.7	0	100	90.7	71 - 146		
Acetone	67-64-1	MS	82.1	0	100	82.1	40 - 151		
Benzene	71-43-2	MS	18.2	0	20	90.9	80 - 124		
Bromochloromethane	74-97-5	MS	18.4	0	20	91.8	73 - 117		
Bromodichloromethane	75-27-4	MS	18.2	0	20	91.2	79 - 126		
Bromoform	75-25-2	MS	16.5	0	20	82.5	70 - 123		
Bromomethane	74-83-9	MS	9.1	0	20	45.3	45 - 148		
Carbon Disulfide	75-15-0	MS	15.5	0	20	77.4	57 - 131		
Carbon Tetrachloride	56-23-5	MS	17.1	0	20	85.3	62 - 132		
Chlorobenzene	108-90-7	MS	18.4	0	20	92.2	85 - 117		
Chlorodibromomethane	124-48-1	MS	17.3	0	20	86.6	77 - 122		
Chloroethane	75-00-3	MS	13	0	20	64.9	51 - 142		
Chloroform	67-66-3	MS	17.4	0	20	87.1	78 - 122		
Chloromethane	74-87-3	MS	15.7	0	20	78.3	38 - 156		
cis-1,2-Dichloroethene	156-59-2	MS	19.2	0	20	96.1	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	MS	16.9	0	20	84.5	81 - 121		
Cyclohexane	110-82-7	MS	17.1	0	20	85.3	66 - 130		
Dichlorodifluoromethane	75-71-8	MS	15	0	20	74.9	17 - 166		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Ethylbenzene	100-41-4	MS	18.4	0	20	92	80 - 124		
Freon 113	76-13-1	MS	14.6	0	20	72.8	50 - 130		
Isopropylbenzene	98-82-8	MS	20.7	0	20	103	73 - 129		
Methyl acetate	79-20-9	MS	15.3	0	20	76.4	70 - 130		
Methyl cyclohexane	108-87-2	MS	15.7	0	20	78.4	70 - 130		
Methyl t-Butyl Ether	1634-04-4	MS	18	0	20	89.9	69 - 115		
Methylene Chloride	75-09-2	MS	17.3	0	20	86.6	76 - 121		
mp-Xylene	108383/106423	MS	37.8	0	40	94.4	79 - 125		
o-Xylene	95-47-6	MS	18.7	0	20	93.6	79 - 124		
Styrene	100-42-5	MS	19.3	0	20	96.3	79 - 123		
Tetrachloroethene	127-18-4	MS	16.1	0	20	80.3	72 - 124		
Toluene	108-88-3	MS	18.5	0	20	92.3	80 - 125		
Total Xylenes	1330-20-7	MS	56.5	0	60	94.1	79 - 125		
trans-1,2-Dichloroethene	156-60-5	MS	18.4	0	20	92.1	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	MS	18.3	0	20	91.7	78 - 126		
Trichloroethene	79-01-6	MS	17.4	0	20	86.9	77 - 124		
Trichlorofluoromethane	75-69-4	MS	13.1	0	20	65.6	38 - 123		
Vinyl Chloride	75-01-4	MS	16.5	0	20	82.7	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	29.7	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	28.6	30	95.5	79 - 114	
Dibromofluoromethane	1868-53-7	MS	28.9	30	96.4	78 - 116	
Toluene-d8	2037-26-5	MS	28.5	30	95.1	76 - 127	

Duplicate 3921291 (DUP) 3392161004 For QC Batch 1357890

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,1,1-Trichloroethane	71-55-6	DUP	0	0	RPD	0	(Max-)	ND
1,1,2,2-Tetrachloroethane	79-34-5	DUP	0	0	RPD	0	(Max-)	ND
1,1,2-Trichloroethane	79-00-5	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethane	75-34-3	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethene	75-35-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichlorobenzene	87-61-6	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichloropropane	96-18-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trichlorobenzene	120-82-1	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trimethylbenzene	95-63-6	DUP	0.5875	0.5989	RPD	1.93	(Max-)	J
1,2-Dibromo-3-chloropropane	96-12-8	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,2-Dibromoethane	106-93-4	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichlorobenzene	95-50-1	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloroethane	107-06-2	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloropropane	78-87-5	DUP	0	0	RPD	0	(Max-)	ND
1,3,5-Trimethylbenzene	108-67-8	DUP	0	0	RPD	0	(Max-)	ND
1,3-Dichlorobenzene	541-73-1	DUP	0	0	RPD	0	(Max-)	ND
1,4-Dichlorobenzene	106-46-7	DUP	0	0	RPD	0	(Max-)	ND
2-Butanone	78-93-3	DUP	0	0	RPD	0	(Max-)	ND
2-Hexanone	591-78-6	DUP	0	0	RPD	0	(Max-)	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	DUP	0	0	RPD	0	(Max-)	ND
Acetone	67-64-1	DUP	0	0	RPD	0	(Max-)	ND
Benzene	71-43-2	DUP	106.76	113.1450	RPD	5.81	(Max-)	
Bromochloromethane	74-97-5	DUP	0	0	RPD	0	(Max-)	ND
Bromodichloromethane	75-27-4	DUP	0	0	RPD	0	(Max-)	ND
Bromoform	75-25-2	DUP	0	0	RPD	0	(Max-)	ND
Bromomethane	74-83-9	DUP	0	0	RPD	0	(Max-)	ND
Carbon Disulfide	75-15-0	DUP	0	0	RPD	0	(Max-)	ND
Carbon Tetrachloride	56-23-5	DUP	0	0	RPD	0	(Max-)	ND
Chlorobenzene	108-90-7	DUP	0	0	RPD	0	(Max-)	ND
Chlorodibromomethane	124-48-1	DUP	0	0	RPD	0	(Max-)	ND
Chloroethane	75-00-3	DUP	0	0	RPD	0	(Max-)	ND
Chloroform	67-66-3	DUP	0	0	RPD	0	(Max-)	ND
Chloromethane	74-87-3	DUP	0	0	RPD	0	(Max-)	ND
cis-1,2-Dichloroethene	156-59-2	DUP	0	0	RPD	0	(Max-)	ND
cis-1,3-Dichloropropene	10061-01-5	DUP	0	0	RPD	0	(Max-)	ND
Cyclohexane	110-82-7	DUP	0	0	RPD	0	(Max-)	ND
Dichlorodifluoromethane	75-71-8	DUP	0	0	RPD	0	(Max-)	ND
Ethylbenzene	100-41-4	DUP	2.8565	2.9028	RPD	1.61	(Max-)	
Freon 113	76-13-1	DUP	0	0	RPD	0	(Max-)	ND
Isopropylbenzene	98-82-8	DUP	0.6720	0.6150	RPD	8.86	(Max-)	J
Methyl acetate	79-20-9	DUP	0	0	RPD	0	(Max-)	ND
Methyl cyclohexane	108-87-2	DUP	0	0	RPD	0	(Max-)	ND
Methyl t-Butyl Ether	1634-04-4	DUP	0	0	RPD	0	(Max-)	ND
Methylene Chloride	75-09-2	DUP	0	0	RPD	0	(Max-)	ND
mp-Xylene	108383/106423	DUP	0.8436	0.8301	RPD	1.61	(Max-)	J
o-Xylene	95-47-6	DUP	0.5848	0.6080	RPD	3.90	(Max-)	J
Styrene	100-42-5	DUP	0	0	RPD	0	(Max-)	ND
Tetrachloroethene	127-18-4	DUP	0	0	RPD	0	(Max-)	ND
Toluene	108-88-3	DUP	0	0	RPD	0	(Max-)	ND
Total Xylenes	1330-20-7	DUP	1.4284	1.4382	RPD	0.68	(Max-)	J
trans-1,2-Dichloroethene	156-60-5	DUP	0	0	RPD	0	(Max-)	ND
trans-1,3-Dichloropropene	10061-02-6	DUP	0	0	RPD	0	(Max-)	ND
Trichloroethene	79-01-6	DUP	0	0	RPD	0	(Max-)	ND
Trichlorofluoromethane	75-69-4	DUP	0	0	RPD	0	(Max-)	ND
Vinyl Chloride	75-01-4	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	DUP	30.2	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	DUP	28.8	30	95.9	79 - 114	
Dibromofluoromethane	1868-53-7	DUP	28.8	30	95.9	78 - 116	
Toluene-d8	2037-26-5	DUP	29.5	30	98.5	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1355098	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161010	3392161011	3392161001	3392161002
3392161003	3392161004	3392161005	

Matrix Spike 3917754 (MS) 3391890011 (non-Project Sample) For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917755 (MSD) 3391890011 (non-Project Sample) For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	11.6	1.90	10	96.9	80 - 120		
Sulfate	SO4	MSD	11.7	1.90	10	97.8	80 - 120	RPD 0.77 (Max-20)	

Matrix Spike 3917758 (MS) 3392018003 (non-Project Sample) For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	2.2	0	2.50	89.7	80 - 120		J

Matrix Spike 3917761 (MS) 3392063001 (non-Project Sample) For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3917762 (MSD) 3392063001 (non-Project Sample) For QC Batch 1355098

Matrix Spike 3917765 (MS) 3392084002 (non-Project Sample) For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	22.2	21.70	1	NC	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3918069 (MS) 3392168001 (non-Project Sample) For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike 3918072 (MS) 3392173001 (non-Project Sample) For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918073 (MSD) 3392173001 (non-Project Sample) For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	44.7	31.30	10	134*	80 - 120		
Chloride	Cl	MSD	45.1	31.30	10	138*	80 - 120	RPD 0.85 (Max-20)	
Nitrate-N	NO3	MS	1.9	0.61	1	131*	80 - 120		
Nitrate-N	NO3	MSD	2	0.61	1	135*	80 - 120	RPD 1.96 (Max-20)	
Sulfate	SO4	MS	39.4	26.40	10	130*	80 - 120		
Sulfate	SO4	MSD	39.8	26.40	10	134*	80 - 120	RPD 1.04 (Max-20)	

Method Blank 3917554 (MB) Created on 12/13/2024 06:30 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917555 (LCS) Created on 12/13/2024 06:30 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	49.6		50	99.1	90 - 110		
Nitrate-N	NO3	LCS	4.9		5	98.9	90 - 110		
Sulfate	SO4	LCS	49.3		50	98.7	90 - 110		

Lab Control Standard 3917756 (LCS) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	50.8		50	102	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3917757 (MB) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917759 (LCS) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.4		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.3		50	103	90 - 110		

Method Blank 3917760 (MB) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3917763 (LCS) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.7		50	101	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	50.6		50	101	90 - 110		

Method Blank 3917764 (MB) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3917766 (LCS) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.1		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	51		50	102	90 - 110		

Method Blank 3917767 (MB) Created on 12/13/2024 09:19 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3918065 (MS) 3392161002 For QC Batch 1355098

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918066 (MSD) 3392161002 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	247	217	25	NC	80 - 120		
Chloride	Cl	MSD	245	217	25	NC	80 - 120	RPD 1.11 (Max-20)	
Nitrate-N	NO3	MS	3.3	0	2.50	134*	80 - 120		
Nitrate-N	NO3	MSD	3.3	0	2.50	133*	80 - 120	RPD 0.45 (Max-20)	
Sulfate	SO4	MS	180	148	25	NC	80 - 120		
Sulfate	SO4	MSD	178	148	25	NC	80 - 120	RPD 1.12 (Max-20)	

Lab Control Standard 3918067 (LCS) Created on 12/13/2024 14:17 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.2		50	104	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3918068 (MB) Created on 12/13/2024 14:17 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918070 (LCS) Created on 12/13/2024 14:17 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.5		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.3		50	105	90 - 110		

Method Blank 3918071 (MB) Created on 12/13/2024 14:17 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918074 (LCS) Created on 12/13/2024 14:17 For QC Batch 1355098

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.7		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	105	90 - 110		
Sulfate	SO4	LCS	52.5		50	105	90 - 110		

Method Blank 3918075 (MB) Created on 12/13/2024 14:17 For QC Batch 1355098

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1355290	Prep Method	N/A
Date	N/A	Analysis Method	SM2130B-2011
Tech.			

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161010	3392161011	3392161001	3392161002
3392161003	3392161004	3392161005	

Duplicate 3917983 (DUP) 3391897001 (non-Project Sample) For QC Batch 1355290

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)				Qualifiers
Turbidity	Turb	DUP	14	14	RPD	0	(Max-10)	

Method Blank 3917981 (MB) Created on 12/13/2024 13:00 For QC Batch 1355290

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3917984 (MB) Created on 12/13/2024 13:00 For QC Batch 1355290

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3917986 (DUP) 3392161008 For QC Batch 1355290

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)				Qualifiers
Turbidity	Turb	DUP	120	120	RPD	0	(Max-10)	

Method Blank 3917987 (MB) Created on 12/13/2024 13:00 For QC Batch 1355290

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1356223	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161001	3392161002	3392161003	3392161004
3392161005			

Duplicate 3919482 (DUP) 3392088003 (non-Project Sample) For QC Batch 1356223

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	1246	1226	RPD	1.62 (Max-5)	

Duplicate 3919483 (DUP) 3392092002 (non-Project Sample) For QC Batch 1356223

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	352	358	RPD	1.69 (Max-5)	

Method Blank 3918618 (MB) Created on 12/16/2024 09:01 For QC Batch 1356223

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3918619 (LCS) Created on 12/16/2024 09:01 For QC Batch 1356223

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	499		500	99.8	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1356405	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392161006 3392161007 3392161008 3392161011 3392161004

Matrix Spike 3919384 (MS) 3392434001 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919385 (MSD) 3392434001 (non-Project Sample) For QC Batch 1356405

Matrix Spike 3919388 (MS) 3392379001 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	84.9	75.90	10	NC	80 - 120		
Nitrate-N	NO3	MS	7	6	1	NC	80 - 120		
Sulfate	SO4	MS	34.3	23.40	10	109	80 - 120		

Matrix Spike 3919391 (MS) 3392379002 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919392 (MSD) 3392379002 (non-Project Sample) For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	13.6	2.90	10	107	80 - 120		
Chloride	Cl	MSD	13.6	2.90	10	108	80 - 120	RPD 0.18 (Max-20)	
Nitrate-N	NO3	MS	7.4	6.50	1	NC	80 - 120		
Nitrate-N	NO3	MSD	7.4	6.50	1	NC	80 - 120	RPD 0.04 (Max-20)	
Sulfate	SO4	MS	42.4	32.20	10	102	80 - 120		
Sulfate	SO4	MSD	42.5	32.20	10	104	80 - 120	RPD 0.38 (Max-20)	

Matrix Spike 3919395 (MS) 3392396001 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	16.1	5.10	10	110	80 - 120		
Nitrate-N	NO3	MS	1.4	0.44	1	99.2	80 - 120		

Matrix Spike 3919398 (MS) 3392478003 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919399 (MSD) 3392478003 (non-Project Sample) For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	2.8	1.80	1	108	80 - 120		
Nitrate-N	NO3	MSD	2.8	1.80	1	106	80 - 120	RPD 0.53 (Max-20)	

Matrix Spike 3919402 (MS) 3392497002 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	196	189	10	NC	80 - 120		
Nitrate-N	NO3	MS	5.2	4.10	1	NC	80 - 120		

Matrix Spike 3919522 (MS) 3392316003 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919523 (MSD) 3392316003 (non-Project Sample) For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	170	50.50	100	120	80 - 120		
Chloride	Cl	MSD	169	50.50	100	118	80 - 120	RPD 0.82 (Max-20)	
Nitrate-N	NO3	MS	39.2	27.80	10	114	80 - 120		
Nitrate-N	NO3	MSD	38.5	27.80	10	107	80 - 120	RPD 1.86 (Max-20)	
Sulfate	SO4	MS	1260	1160	100	NC	80 - 120		
Sulfate	SO4	MSD	1230	1160	100	NC	80 - 120	RPD 2 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3919526 (MS) 3392316006 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	66.2	7.50	50	117	80 - 120		
Nitrate-N	NO3	MS	6.7	1.50	5	104	80 - 120		
Sulfate	SO4	MS	925	894	50	NC	80 - 120		

Method Blank 3919094 (MB) Created on 12/17/2024 06:37 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919095 (LCS) Created on 12/17/2024 06:37 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.7		50	101	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	101	90 - 110		
Sulfate	SO4	LCS	50.3		50	101	90 - 110		

Lab Control Standard 3919386 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.2		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.4		50	103	90 - 110		

Method Blank 3919387 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3919389 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3919390 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919393 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

Method Blank 3919394 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919396 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.4		50	105	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3919397 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919400 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.5		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	105	90 - 110		
Sulfate	SO4	LCS	53.1		50	106	90 - 110		

Method Blank 3919401 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919403 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.6		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		
Sulfate	SO4	LCS	52.8		50	106	90 - 110		

Method Blank 3919404 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3919524 (LCS) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.9		50	106	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

Method Blank 3919525 (MB) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919527 (LCS) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.6		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	105	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

Method Blank 3919528 (MB) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1356448	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3392161010 3392161011

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3919484 (DUP) 3392203001 (non-Project Sample) For QC Batch 1356448

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	1762	1720	RPD	2.41 (Max-5)	

Duplicate 3919485 (DUP) 3392207006 (non-Project Sample) For QC Batch 1356448

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	422	406	RPD	3.86 (Max-5)	

Method Blank 3919293 (MB) Created on 12/17/2024 09:13 For QC Batch 1356448

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3919294 (LCS) Created on 12/17/2024 09:13 For QC Batch 1356448

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	498		500	99.6	90 - 110		

QC Batch

QC Batch	1356794	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392161008

Matrix Spike 3920028 (MS) 3392764010 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920029 (MSD) 3392764010 (non-Project Sample) For QC Batch 1356794

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3920032 (MS) 3392595001 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	35.8	25.20	10	106	80 - 120		

Matrix Spike 3920035 (MS) 3392628002 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920036 (MSD) 3392628002 (non-Project Sample) For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	56.8	30.60	25	105	80 - 120		
Sulfate	SO4	MSD	56.9	30.60	25	105	80 - 120	RPD 0.09 (Max-20)	

Matrix Spike 3920039 (MS) 3392641006 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	17	6.40	10	106	80 - 120		

Matrix Spike 3920042 (MS) 3392641016 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920043 (MSD) 3392641016 (non-Project Sample) For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	16.5	5.90	10	106	80 - 120		
Sulfate	SO4	MSD	16.5	5.90	10	106	80 - 120	RPD 0 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3920046 (MS) 3392641026 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	20.4	9.60	10	108	80 - 120		

Matrix Spike 3920049 (MS) 3392711001 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920050 (MSD) 3392711001 (non-Project Sample) For QC Batch 1356794

Matrix Spike 3920053 (MS) 3392754002 (non-Project Sample) For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Method Blank 3919702 (MB) Created on 12/18/2024 06:47 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919703 (LCS) Created on 12/18/2024 06:47 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	50.7		50	101	90 - 110		

Lab Control Standard 3920030 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.2		50	102	90 - 110		

Method Blank 3920031 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920033 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.4		50	103	90 - 110		

Method Blank 3920034 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920037 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.4		50	103	90 - 110		

Method Blank 3920038 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920040 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3920041 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920044 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.9		50	104	90 - 110		

Method Blank 3920045 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920047 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	52.2		50	104	90 - 110		

Method Blank 3920048 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920051 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	52.5		50	105	90 - 110		

Method Blank 3920052 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920054 (LCS) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	52.9		50	106	90 - 110		

Method Blank 3920055 (MB) Created on 12/18/2024 10:56 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3920237 (MS) 3392161008 For QC Batch 1356794

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920238 (MSD) 3392161008 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	1170	1050	100	NC	80 - 120		
Sulfate	SO4	MSD	1150	1050	100	NC	80 - 120	RPD 1.27 (Max-20)	

Lab Control Standard 3920239 (LCS) Created on 12/18/2024 13:40 For QC Batch 1356794

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	52.8		50	106	90 - 110		

Method Blank 3920240 (MB) Created on 12/18/2024 13:40 For QC Batch 1356794

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1356895	Prep Method	N/A
Date	N/A	Analysis Method	S4500HB-11
Tech.			

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161010	3392161011	3392161002	3392161003
3392161004	3392161005		

Duplicate 3920063 (DUP) 3391836012 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920067 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920071 (DUP) 3391890009 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920075 (DUP) 3391971001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP	8.4170	8.4090	RPD 0.10 (Max-10)

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3920079 (DUP) 3392026001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2550	8.2470	RPD	0.10 (Max-10)	

Duplicate 3920083 (DUP) 3392026002 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2130	8.2280	RPD	0.18 (Max-10)	

Duplicate 3920095 (DUP) 3392316001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2050	8.2550	RPD	0.61 (Max-10)	

Duplicate 3920099 (DUP) 3392379005 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.56	8.5150	RPD	0.53 (Max-10)	

Duplicate 3920103 (DUP) 3392402001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920107 (DUP) 3392412001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920087 (DUP) 3392161001 For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920091 (DUP) 3392161011 For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.3470	8.3460	RPD	0.01 (Max-10)	

QC Batch

QC Batch	1357374	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3392161006	3392161001	3392161002	3392161003
3392161004	3392161005		

Duplicate 3920793 (DUP) 3391836001 (non-Project Sample) For QC Batch 1357374

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	47	35	RPD 29.30* (Max-20)	

Duplicate 3920796 (DUP) 3391836011 (non-Project Sample) For QC Batch 1357374

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	0	0	RPD 0 (Max-20)	ND

Method Blank 3920792 (MB) Created on 12/19/2024 09:05 For QC Batch 1357374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3920795 (MB) Created on 12/19/2024 09:05 For QC Batch 1357374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3920798 (MB) Created on 12/19/2024 09:05 For QC Batch 1357374

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1359622	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3392161007 3392161008 3392161009 3392161010 3392161011

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922309 (DUP) 3392316004 (non-Project Sample) For QC Batch 1359622

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	40	49	RPD 20.20* (Max-20)	

Method Blank 3922305 (MB) Created on 12/23/2024 08:53 For QC Batch 1359622

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3922306 (DUP) 3392161007 For QC Batch 1359622

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	0	0	RPD 0 (Max-20)	ND

Method Blank 3922308 (MB) Created on 12/23/2024 08:53 For QC Batch 1359622

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3922311 (MB) Created on 12/23/2024 08:53 For QC Batch 1359622

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1359756	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161010	3392161001	3392161011	3392161002
3392161003	3392161004	3392161005	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922696 (DUP) 3392316001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	314.04	302.40	RPD	3.78 (Max-20)	
pH	PH	DUP					

Duplicate 3922700 (DUP) 3392379005 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	274.52	270.04	RPD	1.65 (Max-20)	
pH	PH	DUP					

Duplicate 3922701 (DUP) 3392402001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	122.64	120.24	RPD	1.98 (Max-20)	
pH	PH	DUP					

Duplicate 3922705 (DUP) 3392589001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	68.48	67.16	RPD	1.95 (Max-20)	
pH	PH	DUP	8.09	8.0960	RPD	0.07 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922709 (DUP) 3392622001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)		Qualifiers
pH	PH	DUP	3.8370	5.2310	RPD 30.70* (Max-10)	

Duplicate 3922713 (DUP) 3392641005 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Alkalinity, Total	ALKT	DUP	30.68	30.64	RPD 0.13 (Max-20)	
pH	PH	DUP	7.4010	7.3550	RPD 0.62 (Max-10)	

Duplicate 3922717 (DUP) 3392641015 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Alkalinity, Total	ALKT	DUP	29.40	29.20	RPD 0.68 (Max-20)	
pH	PH	DUP	7.6850	7.6690	RPD 0.21 (Max-10)	

Duplicate 3922721 (DUP) 3392641025 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Alkalinity, Total	ALKT	DUP	95.92	96.84	RPD 0.95 (Max-20)	
pH	PH	DUP	8.2880	8.2750	RPD 0.16 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922725 (DUP) 3392711003 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3922729 (DUP) 3392812006 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	210.28	210.40	RPD	0.06	(Max-20)	
pH	PH	DUP	8.4680	8.4550	RPD	0.15	(Max-10)	

Method Blank 3922687 (MB) Created on 12/23/2024 16:10 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3922691 (DUP) 3392161001 For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	210.64	203.12	RPD	3.63	(Max-20)	
pH	PH	DUP	8.2560	8.2480	RPD	0.10	(Max-10)	

Method Blank 3922693 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922695 (DUP) 3392161011 For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Alkalinity, Total	ALKT	DUP	505.20	489.20	RPD 3.22 (Max-20)	
pH	PH	DUP				

Method Blank 3922698 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922703 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922707 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922711 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922715 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3922719 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922723 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922727 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922731 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1360529	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3392161006	3392161007	3392161008	3392161009
3392161010	3392161011	3392161001	3392161002
3392161003	3392161004	3392161005	

Duplicate 3922899 (DUP) 3393195003 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	2003	2009	RPD	0.30 (Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922901 (DUP) 3392396004 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	1227	1222	RPD	0.41 (Max-10)	

Duplicate 3922903 (DUP) 3392847010 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	153.10	151.10	RPD	1.31 (Max-10)	

Duplicate 3922905 (DUP) 3392633001 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	232	232	RPD	0 (Max-10)	

Duplicate 3922907 (DUP) 3393095003 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	1099	1107	RPD	0.73 (Max-10)	

Duplicate 3922897 (DUP) 3392161010 For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	1296	1300	RPD	0.31	(Max-10)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392161001	MW-33	SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356411	12/17/2024 07:40	AJN	SW846 7470A	1356473
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355098
3392161002	MW-32	SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355098
3392161003	MW-19S	SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356964
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355098
3392161004	MW-19D	SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1356405
		N/A	N/A	N/A		SW846 9056A	1355098

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392161005	MW-11S	SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355098
3392161006	MW-11D	SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1362581
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1357374
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1356405
		N/A	N/A	N/A		SW846 9056A	1355098
3392161007	MW-11D-Dup	SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1362502
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1356405
		N/A	N/A	N/A		SW846 9056A	1355098
3392161008	MW-31	SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356551
		SW846 3015A	1356007	12/16/2024 08:48	ANN	SW846 6010C	1356964
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1362502
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1356405
		N/A	N/A	N/A		SW846 9056A	1356794
		N/A	N/A	N/A		SW846 9056A	1355098

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392161009	MW-29	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356411	12/17/2024 07:40	AJN	SW846 7470A	1356473
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1362581
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356223
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355098
3392161010	MW-8S	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356448
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355098
3392161011	MW-8D	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356412	12/17/2024 07:40	AJN	SW846 7470A	1356474
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1358391
		SW846 3510C	1357307	12/19/2024 08:40	DEC	SW846 8270E	1362581
		N/A	N/A	N/A		SW846 8260D	1357890
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355290
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356448
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1356405
		N/A	N/A	N/A		SW846 9056A	1355098
3392161012	Trip Blank	N/A	N/A	N/A		SW846 8260D	1357890

ALS

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3392161
Logged By: CXW
PM: EXP
ALS Quote #:
1 of 2

Client Name: Michael Baker Intl.
Address: 100 Airside Drive
Moon Twp., PA

Contact: C. Kupfer
Phone#: 412-269-6300
Project Name/#: Erie Coke Works
Bill To:
Purchase Order #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

Container Type	G	G	P	P						
Container Size	3 40 ml	1 500 ml	4 125 ml	2 1L						
Preservative	HCl	~~HNP~~	HNO3 MJE 12/13/24	~~HNP~~						

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.						
			Enter Number of Containers Per Sample or Field Results Below.													
1 MW-33	12/12/24	0939		G	GW	3	1	2	2	2	MJE 12/13/24					
2 MW-32		1115				X	X	X	X	X						
3 MW-19S		0950				X	X	X	X	X						
4 MW-19D		1125				X	X	X	X	X						
5 MW-11S		0940				X	X	X	X	X						
6 MW-11D		1055				X	X	X	X	X						
7 MW-11D-DUP		1110				X	X	X	X	X						
8 MW-31		1430				X	X	X	X	X						
9 MW-29		1510				X	X	X	X	X						
10 MW-85	↓	1430		↓	↓	X	X	X	X	X						

Temp Taken By: MJE Therm ID: 569 WO Temp (°C): 0°
Receipt Info completed by: WV Containers 0-6°C: Y N NA
Cooler Custody Seal: YES
Sample Custody Seal: below
Received on Ice
Coolers & Samples
Correct Containers
Sample Label/COC
Adequate Sample
VOA only: Trip Blank
NJ ≤ 4 days?
Courier/Tracking #

Temp By:	WO Temp (°C)	Therm ID
MJE	0°	569

Receipt Info Completed By: MJE
Cooler Custody Seal Intact: Y N NA
Sample Custody Seal Intact: Y N NA
Received on Ice: Y N NA
Cooler & Samples Intact: Y N
Correct Containers Provided: Y N
Sample Label/COC Agree: Y N
Adequate Sample Volumes: Y N
CR6 Samples Filtered: Y N NA
OP Samples Filtered: Y N NA
VOA Trip Blank: Y N NA
NJ≤ 4 Days?
Rad Screen (uCi):
Courier/Tracking #: 283188718124
SDWA Compliance: Y N
PWSID
WV Containers 0-6°C: Y N NA
PWS Contact: *No Sampler - MJE 12/13/24

Sample(s) for Radi
Reportable SDWA
SDWA State of Ori
PWSID #

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks
* The following samples are considered "Hot": MW-11D, MW-11D-DUP, MW-31, MW-29

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: ID:
Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/12/24	1700	1	Dave Gaviglia / MBI	2	Fedex
12/13/24	854	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

283188718124

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 2 of 2

ALS Quote #:

Client Name: Michael Baker Intl.

Address: 100 Airside Drive Moon Twp., PA

Contact: C. Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges. Approved?

Date Required:

Email? [ ]

Container Type	G	G	P	P
Container Size	3 40 ml	1 500 ml	4 125 ml	2 1L
Preservative	HCl	~~HNO~~ MSF 12/13/24	HNO3	~~HNO~~ MSF 12/13/24

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.	Enter Number of Containers Per Sample or Field Results Below.
1 MW-8D	12/12/24	1545	G	G	GW	X	X	X	X	X	
2 TB-43	—	—	—	—	W	X		MSF 12/13/24			
3											
4											
5											
6											
7											
8											
9											
10											

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/12/24	1700	1	Dave Gavaglia / MBI	2	Fedex
12/13/24	854	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Receipt Information (completed by Receiving Lab)

Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N

Courier/Tracking #

Deviations? NO YES

If YES, list below:

Client contact:

Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi):

Reportable SDWA Sample(s)? Y N New Source? Y N

SDWA State of Origin? New Source Contact:

PWSID #

PWS Contact: PWS Phone #:

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ]

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

Rev 07.06.2023

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke Works 188511-3020
Workorder 3392316
Report ID 380461 on 1/9/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 14, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3392316001	MW-35S	Ground Water	12/13/2024 09:45	12/14/2024 08:41	CBC	Collected By Client
3392316002	MW-35D	Ground Water	12/13/2024 11:00	12/14/2024 08:41	CBC	Collected By Client
3392316003	MW-6S	Ground Water	12/13/2024 09:30	12/14/2024 08:41	CBC	Collected By Client
3392316004	MW-6D	Ground Water	12/13/2024 10:50	12/14/2024 08:41	CBC	Collected By Client
3392316005	MW-30	Ground Water	12/13/2024 09:30	12/14/2024 08:41	CBC	Collected By Client
3392316006	MW-9S	Ground Water	12/13/2024 10:55	12/14/2024 08:41	CBC	Collected By Client
3392316007	TB-44	Ground Water	12/13/2024 00:00	12/14/2024 08:41	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID		
3392316006	MW-9S	S1	This sample was analyzed at a dilution in the 8260 volatiles analysis due to matrix. Reporting limits were adjusted accordingly.

Result Notations

Notation Ref.	
1	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
2	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
3	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
4	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Isopropylbenzene. The % Recovery was reported as 130 and the control limits were 73 to 129.
5	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 69.7 and the control limits were 80 to 120.
6	The QC sample type DUP for method SM2310B-2011 was outside the control limits for the analyte Acidity, Total. The RPD was reported as 20.2 and the upper control limit is 20.
7	The QC sample type MSD for method SW846 6010C was outside the control limits for the analyte Antimony, Dissolved. The % Recovery was reported as 49.6 and the control limits were 75 to 125.
8	The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.
9	The QC sample type MS for method SW846 6010C was outside the control limits for the analyte Antimony, Dissolved. The % Recovery was reported as 52.8 and the control limits were 75 to 125.
10	The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid.
11	The surrogate 2-Fluorobiphenyl for method SW846 8270E was outside of control limits. The % Recovery was reported as 4.57 and the control limits were 24 to 116. This result was reported at a dilution of 1.
12	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 61.3 and the control limits were 80 to 120.

Detected Results Summary

Client Sample ID	MW-35S	Collected	12/13/2024 09:45
Lab Sample ID	3392316001	Lab Receipt	12/14/2024 08:41

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0034J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.018	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.018	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	449	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	465	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0047J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0029J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.023	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.026	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.90	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.92	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	70.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	72.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.39	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.38	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.6	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.031	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	105	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	104	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
Acenaphthylene	1.5	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	0.67J	ug/L	1.5	0.25	SW846 8270E	#
Fluoranthene	0.25J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	1.1J	ug/L	1.5	0.65	SW846 8270E	#
VOLATILE ORGANICS						
Acetone	4.6J	ug/L	10.0	3.1	SW846 8260D	#
Benzene	3.1	ug/L	1.0	0.23	SW846 8260D	#
Bromomethane	0.53J	ug/L	1.0	0.39	SW846 8260D	#
o-Xylene	0.99J	ug/L	1.0	0.33	SW846 8260D	#
Total Xylenes	0.99J	ug/L	3.0	0.66	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	24	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	302	mg/L	5	5	SM2320B-2011	#
Chloride	32.3	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	37.4	mg/L	2.5	0.80	SW846 9056A	#
pH	8.26	pH_Units			S4500HB-11	#
Specific Conductance	2810	umhos/cm	50	1	SW846 9050A	#
Sulfate	1120	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2170	mg/L	25	25	SM2540C-15	#
Turbidity	1.2	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-35D	Collected	12/13/2024 11:00
Lab Sample ID	3392316002	Lab Receipt	12/14/2024 08:41

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.012	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.012	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	341	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	355	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0032J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0028J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.016	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.020	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.70	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.72	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	52.5	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	54.0	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.012	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.0087	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	2.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	2.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.032	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	65.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	65.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	0.53J	ug/L	3.0	0.50	SW846 8270E	#
Acenaphthylene	0.77J	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	0.55J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	2.8	ug/L	1.5	0.65	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	21	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	77	mg/L	5	5	SM2320B-2011	#
Chloride	15.2	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	18.2	mg/L	2.5	0.80	SW846 9056A	#
pH	8.36	pH_Units			S4500HB-11	#
Specific Conductance	1910	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	785	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1560	mg/L	25	25	SM2540C-15	#
Turbidity	0.85	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-6S	Collected	12/13/2024 09:30
Lab Sample ID	3392316003	Lab Receipt	12/14/2024 08:41

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.011	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.010J	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	481	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	497	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0048J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0039J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.017	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.018	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.19	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.19	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	57.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	58.9	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.12	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.13	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	1.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	1.8	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.32	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.28	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	105	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	105	mg/L	0.56	0.18	SW846 6010C	#
Zinc, Dissolved	0.050	mg/L	0.022	0.0073	SW846 6010C	#
Zinc, Total	0.053	mg/L	0.022	0.0073	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	35	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	298	mg/L	5	5	SM2320B-2011	#
Chloride	53.3	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	28.4	mg/L	2.5	0.80	SW846 9056A	#
pH	8.32	pH_Units			S4500HB-11	#
Specific Conductance	2800	umhos/cm	50	1	SW846 9050A	#
Sulfate	1160	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2210	mg/L	25	25	SM2540C-15	#
Turbidity	1.4	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-6D	Collected	12/13/2024 10:50
Lab Sample ID	3392316004	Lab Receipt	12/14/2024 08:41

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.013	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.013	mg/L	0.011	0.0036	SW846 6010C	#
Cadmium, Total	0.00078J	mg/L	0.0022	0.00073	SW846 6010C	#
Calcium, Dissolved	455	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	465	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0026J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0063	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.023	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.027	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.064J	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.099	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	54.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	57.6	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.044	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.053	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.2	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.27	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.27	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	99.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	98.6	mg/L	0.56	0.18	SW846 6010C	#
Zinc, Dissolved	0.12	mg/L	0.022	0.0073	SW846 6010C	#
Zinc, Total	0.13	mg/L	0.022	0.0073	SW846 6010C	#
SEMIVOLATILES						
Acenaphthylene	0.27J	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	0.33J	ug/L	1.5	0.25	SW846 8270E	#
Naphthalene	1.0J	ug/L	1.5	0.65	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	49	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	312	mg/L	5	5	SM2320B-2011	#
Chloride	52.2	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	28.8	mg/L	2.5	0.80	SW846 9056A	#
pH	8.36	pH_Units			S4500HB-11	#
Specific Conductance	2170	umhos/cm	50	1	SW846 9050A	#
Sulfate	1050	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2050	mg/L	25	25	SM2540C-15	#
Turbidity	1.6	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-30	Collected	12/13/2024 09:30
Lab Sample ID	3392316005	Lab Receipt	12/14/2024 08:41

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Total	0.0041J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.031	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.031	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	200	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	201	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0031J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0034J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0061J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0050J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.39	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.50	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	37.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	39.3	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.030	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.035	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	6.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	6.2	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.046	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.040	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	94.4	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	94.0	mg/L	0.56	0.18	SW846 6010C	#
WET CHEMISTRY						
Acidity, Total	11	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	280	mg/L	5	5	SM2320B-2011	#
Chloride	46.3	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	14.0	mg/L	2.5	0.80	SW846 9056A	#
pH	8.49	pH_Units			S4500HB-11	#
Specific Conductance	1470	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	423	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1100	mg/L	25	25	SM2540C-15	#
Turbidity	1.9	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-9S	Collected	12/13/2024 10:55
Lab Sample ID	3392316006	Lab Receipt	12/14/2024 08:41

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.024	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.023	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	450	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	453	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0022J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0046J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0082J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.66	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.78	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	61.9	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	63.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.0	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.99	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	2.6	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	2.5	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	21.8	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	21.8	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	35.0	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	99.3	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	3.8	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	7.7	ug/L	3.0	0.90	SW846 8270E	#
Anthracene	16.1	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	1.4J	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.56J	ug/L	1.5	0.26	SW846 8270E	#
Benzo(b)fluoranthene	0.73J	ug/L	1.5	0.30	SW846 8270E	#
Biphenyl	2.4J	ug/L	3.0	0.25	SW846 8270E	#
bis(2-Chloroethoxy)methane	0.32J	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	353	ug/L	60.0	5.0	SW846 8270E	#
Chrysene	0.94J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	6.6	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	17.3	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	6.8	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	9.2	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	3620	ug/L	150	65.0	SW846 8270E	#
o-Cresol	17.8	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	109	ug/L	1.5	0.25	SW846 8270E	#
Phenol	7.7J	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	9.8	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	171J	ug/L	500	125	SW846 8260D	#
Benzene	308J	ug/L	500	115	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	47	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	528	mg/L	50	50	SM2320B-2011	#

Detected Results Summary

Sample - MW-9S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Chloride	7.5	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	1.2J	mg/L	2.5	0.80	SW846 9056A	#
pH	8.17	pH_Units			S4500HB-11	#
Specific Conductance	2150	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	894	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1810	mg/L	25	25	SM2540C-15	#
Turbidity	9.5	NTU	0.30	0.30	SM2130B-2011	#

Results

Client Sample ID	MW-35S	Collected	12/13/2024 09:45
Lab Sample ID	3392316001	Lab Receipt	12/14/2024 08:41

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:25	MSY	E
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:25	MSY	E
Arsenic, Dissolved	0.0034J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:25	MSY	E
Barium, Dissolved	0.018		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Barium, Total	0.018		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:25	MSY	E
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:25	MSY	E
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:25	MSY	E
Calcium, Dissolved	449		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Calcium, Total	465		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:25	MSY	E
Chromium, Dissolved	0.0047J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Chromium, Total	0.0029J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:25	MSY	E
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:25	MSY	E
Copper, Dissolved	0.023		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Copper, Total	0.026		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:25	MSY	E
Iron, Dissolved	0.90		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Iron, Total	0.92		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:25	MSY	E
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:25	MSY	E
Magnesium, Dissolved	70.4		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Magnesium, Total	72.5		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:25	MSY	E
Manganese, Dissolved	0.39		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Manganese, Total	0.38		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:25	MSY	E
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 12:00	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:27	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:25	MSY	E
Potassium, Dissolved	3.6		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Potassium, Total	3.6		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:25	MSY	E
Selenium, Dissolved	0.031		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:25	MSY	E
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:25	MSY	E
Sodium, Dissolved	105		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Sodium, Total	104		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:25	MSY	E
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:25	MSY	E
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:25	MSY	E
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:21	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:25	MSY	E

Results

Client Sample ID	MW-35S	Collected	12/13/2024 09:45
Lab Sample ID	3392316001	Lab Receipt	12/14/2024 08:41

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 18:22	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 18:22	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 18:22	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:22	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 18:22	S7M	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Acenaphthylene	1.5		ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 18:22	S7M	D
Anthracene	0.67J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 18:22	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:22	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 18:22	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 18:22	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 18:22	S7M	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:22	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 18:22	S7M	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 18:22	S7M	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D

Results

Client Sample ID	MW-35S	Collected	12/13/2024 09:45
Lab Sample ID	3392316001	Lab Receipt	12/14/2024 08:41

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:22	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 18:22	S7M	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:22	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Fluoranthene	0.25J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 18:22	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 18:22	S7M	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 18:22	S7M	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:22	S7M	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
Naphthalene	1.1J	J	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 18:22	S7M	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 18:22	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 18:22	S7M	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 18:22	S7M	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 18:22	S7M	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:22	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	74.3%	23 – 131	12/20/2024 18:22	
2-Fluorobiphenyl	321-60-8	77.8%	24 – 116	12/20/2024 18:22	
2-Fluorophenol	367-12-4	41.1%	10 – 85	12/20/2024 18:22	
Nitrobenzene-d5	4165-60-0	77.9%	32 – 125	12/20/2024 18:22	
Phenol-d5	4165-62-2	39.8%	7 – 56	12/20/2024 18:22	
Terphenyl-d14	98904-43-9	49.3%	41 – 145	12/20/2024 18:22	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 13:40	ILY	A

Results

Client Sample ID	MW-35S	Collected	12/13/2024 09:45
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 13:40	ILY	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 13:40	ILY	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 13:40	ILY	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 13:40	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 13:40	ILY	A
Acetone	4.6J	J	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 13:40	ILY	A
Benzene	3.1		ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 13:40	ILY	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 13:40	ILY	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 13:40	ILY	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 13:40	ILY	A
Bromomethane	0.53J	J	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 13:40	ILY	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 13:40	ILY	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 13:40	ILY	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 13:40	ILY	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 13:40	ILY	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 13:40	ILY	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 13:40	ILY	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 13:40	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 13:40	ILY	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 13:40	ILY	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 13:40	ILY	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 13:40	ILY	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 13:40	ILY	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 13:40	ILY	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 13:40	ILY	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 13:40	ILY	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 13:40	ILY	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 13:40	ILY	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 13:40	ILY	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 13:40	ILY	A
o-Xylene	0.99J	J	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 13:40	ILY	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 13:40	ILY	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 13:40	ILY	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 13:40	ILY	A
Total Xylenes	0.99J	J	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 13:40	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 13:40	ILY	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 13:40	ILY	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 13:40	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 13:40	ILY	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 13:40	ILY	A

Results

Client Sample ID	MW-35S	Collected	12/13/2024 09:45
Lab Sample ID	3392316001	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 – 133	12/20/2024 13:40	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	12/20/2024 13:40	
Dibromofluoromethane	1868-53-7	104%	78 – 116	12/20/2024 13:40	
Toluene-d8	2037-26-5	105%	76 – 127	12/20/2024 13:40	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	24	1	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	302	2	mg/L	5	5	SM2320B-2011	1	12/27/2024 09:44	JXK	I
Chloride	32.3		mg/L	5.0	2.2	SW846 9056A	5	12/14/2024 17:10	J1W	I
Nitrate-N	37.4		mg/L	2.5	0.80	SW846 9056A	5	12/14/2024 17:10	J1W	I
pH	8.26	3	pH_Units			S4500HB-11	1	12/19/2024 15:32	KMV	I
Specific Conductance	2810		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	1120		mg/L	20.0	14.0	SW846 9056A	20	12/18/2024 00:52	J1W	I
Total Dissolved Solids	2170		mg/L	25	25	SM2540C-15	1	12/18/2024 15:15	RAG	I
Turbidity	1.2		NTU	0.30	0.30	SM2130B-2011	1	12/14/2024 11:59	NPF	I

Results

Client Sample ID	MW-35D	Collected	12/13/2024 11:00
Lab Sample ID	3392316002	Lab Receipt	12/14/2024 08:41

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Barium, Dissolved	0.012		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Barium, Total	0.012		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Calcium, Dissolved	341		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Calcium, Total	355		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Chromium, Dissolved	0.0032J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Chromium, Total	0.0028J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Copper, Dissolved	0.016		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Copper, Total	0.020		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Iron, Dissolved	0.70		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Iron, Total	0.72		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Magnesium, Dissolved	52.5		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Magnesium, Total	54.0		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Manganese, Dissolved	0.012		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Manganese, Total	0.0087		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 12:01	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:17	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Potassium, Dissolved	2.1		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Potassium, Total	2.2		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Selenium, Dissolved	0.032		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Sodium, Dissolved	65.2		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Sodium, Total	65.1		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:27	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:22	MSY	G2
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:27	MSY	E1

Results

Client Sample ID	MW-35D	Collected	12/13/2024 11:00
Lab Sample ID	3392316002	Lab Receipt	12/14/2024 08:41

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,4-Dimethylphenol	0.53J	J	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 19:37	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 19:37	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 19:37	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:37	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 19:37	S7M	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Acenaphthylene	0.77J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 19:37	S7M	D
Anthracene	0.55J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 19:37	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:37	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 19:37	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 19:37	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 19:37	S7M	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:37	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 19:37	S7M	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 19:37	S7M	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D

Results

Client Sample ID	MW-35D	Collected	12/13/2024 11:00
Lab Sample ID	3392316002	Lab Receipt	12/14/2024 08:41

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:37	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 19:37	S7M	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:37	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 19:37	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 19:37	S7M	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 19:37	S7M	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:37	S7M	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
Naphthalene	2.8		ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 19:37	S7M	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 19:37	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 19:37	S7M	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 19:37	S7M	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 19:37	S7M	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:37	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	86.3%	23 – 131	12/20/2024 19:37	
2-Fluorobiphenyl	321-60-8	73.1%	24 – 116	12/20/2024 19:37	
2-Fluorophenol	367-12-4	36.1%	10 – 85	12/20/2024 19:37	
Nitrobenzene-d5	4165-60-0	65.5%	32 – 125	12/20/2024 19:37	
Phenol-d5	4165-62-2	37.2%	7 – 56	12/20/2024 19:37	
Terphenyl-d14	98904-43-9	53.9%	41 – 145	12/20/2024 19:37	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 14:00	ILY	A

Results

Client Sample ID	MW-35D	Collected	12/13/2024 11:00
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:00	ILY	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:00	ILY	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 14:00	ILY	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 14:00	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 14:00	ILY	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 14:00	ILY	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:00	ILY	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:00	ILY	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:00	ILY	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 14:00	ILY	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 14:00	ILY	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:00	ILY	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:00	ILY	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 14:00	ILY	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:00	ILY	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:00	ILY	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 14:00	ILY	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:00	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:00	ILY	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:00	ILY	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:00	ILY	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:00	ILY	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:00	ILY	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:00	ILY	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:00	ILY	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 14:00	ILY	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:00	ILY	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:00	ILY	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:00	ILY	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 14:00	ILY	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:00	ILY	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:00	ILY	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 14:00	ILY	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:00	ILY	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 14:00	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:00	ILY	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:00	ILY	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:00	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:00	ILY	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:00	ILY	A

Results

Client Sample ID	MW-35D	Collected	12/13/2024 11:00
Lab Sample ID	3392316002	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/20/2024 14:00	
4-Bromofluorobenzene	460-00-4	94%	79 – 114	12/20/2024 14:00	
Dibromofluoromethane	1868-53-7	96.1%	78 – 116	12/20/2024 14:00	
Toluene-d8	2037-26-5	98.2%	76 – 127	12/20/2024 14:00	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	21	1	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	77	2	mg/L	5	5	SM2320B-2011	1	12/27/2024 09:18	JXK	I
Chloride	15.2		mg/L	5.0	2.2	SW846 9056A	5	12/14/2024 18:06	J1W	I
Nitrate-N	18.2		mg/L	2.5	0.80	SW846 9056A	5	12/14/2024 18:06	J1W	I
pH	8.36	3	pH_Units			S4500HB-11	1	12/19/2024 16:20	KMV	I
Specific Conductance	1910		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	785		mg/L	10.0	7.0	SW846 9056A	10	12/18/2024 01:03	J1W	I
Total Dissolved Solids	1560		mg/L	25	25	SM2540C-15	1	12/18/2024 15:15	RAG	I
Turbidity	0.85		NTU	0.30	0.30	SM2130B-2011	1	12/14/2024 11:59	NPF	I

Results

Client Sample ID	MW-6S	Collected	12/13/2024 09:30
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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Barium, Dissolved	0.011		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Barium, Total	0.010J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Calcium, Dissolved	481		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Calcium, Total	497		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Chromium, Dissolved	0.0048J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Chromium, Total	0.0039J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Copper, Dissolved	0.017		mg/L	0.011	0.0036	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Copper, Total	0.018		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Iron, Dissolved	0.19		mg/L	0.067	0.022	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Iron, Total	0.19		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Magnesium, Dissolved	57.9		mg/L	0.11	0.036	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Magnesium, Total	58.9		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Manganese, Dissolved	0.12		mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Manganese, Total	0.13		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 12:06	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:28	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Potassium, Dissolved	1.7		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Potassium, Total	1.8		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Selenium, Dissolved	0.32		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Selenium, Total	0.28		mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Sodium, Dissolved	105		mg/L	0.56	0.18	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Sodium, Total	105		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:28	MSY	E1
Zinc, Dissolved	0.050		mg/L	0.022	0.0073	SW846 6010C	1	01/08/2025 10:24	MSY	G2
Zinc, Total	0.053		mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:28	MSY	E1

Results

Client Sample ID	MW-6S	Collected	12/13/2024 09:30
Lab Sample ID	3392316003	Lab Receipt	12/14/2024 08:41

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 17:33	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 17:33	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 17:33	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:33	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 17:33	S7M	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 17:33	S7M	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 17:33	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:33	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 17:33	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 17:33	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 17:33	S7M	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:33	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 17:33	S7M	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 17:33	S7M	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:33	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 17:33	S7M	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:33	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 17:33	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 17:33	S7M	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 17:33	S7M	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:33	S7M	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 17:33	S7M	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 17:33	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 17:33	S7M	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 17:33	S7M	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 17:33	S7M	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:33	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	88.3%	23 – 131	12/20/2024 17:33	
2-Fluorobiphenyl	321-60-8	77.4%	24 – 116	12/20/2024 17:33	
2-Fluorophenol	367-12-4	47.6%	10 – 85	12/20/2024 17:33	
Nitrobenzene-d5	4165-60-0	73.9%	32 – 125	12/20/2024 17:33	
Phenol-d5	4165-62-2	40.4%	7 – 56	12/20/2024 17:33	
Terphenyl-d14	98904-43-9	44.4%	41 – 145	12/20/2024 17:33	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 14:19	ILY	A

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:19	ILY	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:19	ILY	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 14:19	ILY	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 14:19	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 14:19	ILY	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 14:19	ILY	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:19	ILY	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:19	ILY	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:19	ILY	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 14:19	ILY	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 14:19	ILY	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:19	ILY	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:19	ILY	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 14:19	ILY	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:19	ILY	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:19	ILY	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 14:19	ILY	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:19	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:19	ILY	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:19	ILY	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:19	ILY	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:19	ILY	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:19	ILY	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:19	ILY	A
Isopropylbenzene	ND	ND,4	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:19	ILY	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 14:19	ILY	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:19	ILY	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:19	ILY	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:19	ILY	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 14:19	ILY	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:19	ILY	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:19	ILY	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 14:19	ILY	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:19	ILY	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 14:19	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:19	ILY	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:19	ILY	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:19	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:19	ILY	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:19	ILY	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	12/20/2024 14:19	
4-Bromofluorobenzene	460-00-4	96.5%	79 – 114	12/20/2024 14:19	
Dibromofluoromethane	1868-53-7	103%	78 – 116	12/20/2024 14:19	
Toluene-d8	2037-26-5	103%	76 – 127	12/20/2024 14:19	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	35	1	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	298	2	mg/L	5	5	SM2320B-2011	1	12/27/2024 09:33	JXK	I
Chloride	53.3		mg/L	5.0	2.2	SW846 9056A	5	12/14/2024 18:18	J1W	I
Nitrate-N	28.4		mg/L	2.5	0.80	SW846 9056A	5	12/14/2024 18:18	J1W	I
pH	8.32	3	pH_Units			S4500HB-11	1	12/19/2024 16:36	KMV	I
Specific Conductance	2800		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	1160	5	mg/L	20.0	14.0	SW846 9056A	20	12/18/2024 01:15	J1W	I
Total Dissolved Solids	2210		mg/L	25	25	SM2540C-15	1	12/18/2024 15:15	RAG	I
Turbidity	1.4		NTU	0.30	0.30	SM2130B-2011	1	12/14/2024 11:59	NPF	I

Results

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METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Antimony, Dissolved	ND	ND,7,8,9	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Barium, Dissolved	0.013		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Barium, Total	0.013		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Cadmium, Total	0.00078J	J	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Calcium, Dissolved	455	10	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Calcium, Total	465		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Chromium, Dissolved	0.0026J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Chromium, Total	0.0063		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:20	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Copper, Dissolved	0.023		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Copper, Total	0.027		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Iron, Dissolved	0.064J	J	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Iron, Total	0.099		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Magnesium, Dissolved	54.9	10	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Magnesium, Total	57.6		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Manganese, Dissolved	0.044		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Manganese, Total	0.053		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 12:07	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:29	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Potassium, Dissolved	3.2		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Potassium, Total	3.2		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Selenium, Dissolved	0.27		mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Selenium, Total	0.27		mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Sodium, Dissolved	99.0		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Sodium, Total	98.6		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:29	MSY	E1
Zinc, Dissolved	0.12		mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:15	MSY	G1
Zinc, Total	0.13		mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:29	MSY	E1

Results

Client Sample ID	MW-6D	Collected	12/13/2024 10:50
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 18:47	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 18:47	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 18:47	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:47	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 18:47	S7M	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Acenaphthylene	0.27J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 18:47	S7M	D
Anthracene	0.33J	J	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 18:47	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:47	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 18:47	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 18:47	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 18:47	S7M	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 18:47	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 18:47	S7M	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 18:47	S7M	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D

Results

Client Sample ID	MW-6D	Collected	12/13/2024 10:50
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 18:47	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 18:47	S7M	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:47	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 18:47	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 18:47	S7M	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 18:47	S7M	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 18:47	S7M	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
Naphthalene	1.0J	J	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 18:47	S7M	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 18:47	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 18:47	S7M	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 18:47	S7M	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 18:47	S7M	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 18:47	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	90.2%	23 – 131	12/20/2024 18:47	
2-Fluorobiphenyl	321-60-8	73.3%	24 – 116	12/20/2024 18:47	
2-Fluorophenol	367-12-4	47.2%	10 – 85	12/20/2024 18:47	
Nitrobenzene-d5	4165-60-0	67.8%	32 – 125	12/20/2024 18:47	
Phenol-d5	4165-62-2	38.1%	7 – 56	12/20/2024 18:47	
Terphenyl-d14	98904-43-9	44.6%	41 – 145	12/20/2024 18:47	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 14:39	ILY	A

Results

Client Sample ID	MW-6D	Collected	12/13/2024 10:50
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:39	ILY	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:39	ILY	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 14:39	ILY	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 14:39	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 14:39	ILY	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 14:39	ILY	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:39	ILY	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:39	ILY	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:39	ILY	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 14:39	ILY	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 14:39	ILY	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:39	ILY	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:39	ILY	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 14:39	ILY	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:39	ILY	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:39	ILY	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 14:39	ILY	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:39	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:39	ILY	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:39	ILY	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:39	ILY	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:39	ILY	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:39	ILY	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:39	ILY	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:39	ILY	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 14:39	ILY	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:39	ILY	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:39	ILY	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:39	ILY	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 14:39	ILY	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:39	ILY	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:39	ILY	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 14:39	ILY	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:39	ILY	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 14:39	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:39	ILY	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:39	ILY	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:39	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:39	ILY	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:39	ILY	A

Results

Client Sample ID	MW-6D	Collected	12/13/2024 10:50
Lab Sample ID	3392316004	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/20/2024 14:39	
4-Bromofluorobenzene	460-00-4	97.8%	79 – 114	12/20/2024 14:39	
Dibromofluoromethane	1868-53-7	98%	78 – 116	12/20/2024 14:39	
Toluene-d8	2037-26-5	102%	76 – 127	12/20/2024 14:39	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	49	1,6	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	312	2	mg/L	5	5	SM2320B-2011	1	12/27/2024 10:30	JXK	I
Chloride	52.2		mg/L	5.0	2.2	SW846 9056A	5	12/14/2024 18:29	J1W	I
Nitrate-N	28.8		mg/L	2.5	0.80	SW846 9056A	5	12/14/2024 18:29	J1W	I
pH	8.36	3	pH_Units			S4500HB-11	1	12/19/2024 16:52	KMV	I
Specific Conductance	2170		umhos/cm	50	1	SW846 9050A	10	12/24/2024 11:07	EEH	I
Sulfate	1050		mg/L	20.0	14.0	SW846 9056A	20	12/18/2024 02:12	J1W	I
Total Dissolved Solids	2050		mg/L	25	25	SM2540C-15	1	12/18/2024 15:15	RAG	I
Turbidity	1.6		NTU	0.30	0.30	SM2130B-2011	1	12/14/2024 11:59	NPF	I

Results

Client Sample ID	MW-30	Collected	12/13/2024 09:30
Lab Sample ID	3392316005	Lab Receipt	12/14/2024 08:41

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Arsenic, Dissolved	ND	ND	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Arsenic, Total	0.0041J	J	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Barium, Dissolved	0.031		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Barium, Total	0.031		mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Calcium, Dissolved	200		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Calcium, Total	201		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Chromium, Dissolved	0.0031J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Chromium, Total	0.0034J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:25	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Copper, Dissolved	0.0061J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Copper, Total	0.0050J	J	mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Iron, Dissolved	0.39		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Iron, Total	0.50		mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Magnesium, Dissolved	37.9		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Magnesium, Total	39.3		mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Manganese, Dissolved	0.030		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Manganese, Total	0.035		mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 12:08	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:26	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Potassium, Dissolved	6.1		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Potassium, Total	6.2		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Selenium, Dissolved	0.046		mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Selenium, Total	0.040		mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Sodium, Dissolved	94.4		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Sodium, Total	94.0		mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:30	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:24	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:30	MSY	E1

Results

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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,4-Dimethylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 17:58	S7M	D
2-Methylnaphthalene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 17:58	S7M	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 17:58	S7M	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:58	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 17:58	S7M	D
Acenaphthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Acenaphthylene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Acetophenone	ND	ND	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 17:58	S7M	D
Anthracene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 17:58	S7M	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:58	S7M	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 17:58	S7M	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 17:58	S7M	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 17:58	S7M	D
Biphenyl	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 17:58	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 17:58	S7M	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 17:58	S7M	D
Carbazole	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D

Results

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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 17:58	S7M	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 17:58	S7M	D
Dibenzofuran	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:58	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Fluoranthene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Fluorene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 17:58	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 17:58	S7M	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 17:58	S7M	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 17:58	S7M	D
mp-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
Naphthalene	ND	ND	ug/L	1.5	0.65	SW846 8270E	1	12/20/2024 17:58	S7M	D
Nitrobenzene	ND	ND	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 17:58	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 17:58	S7M	D
o-Cresol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 17:58	S7M	D
Phenanthrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D
Phenol	ND	ND	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 17:58	S7M	D
Pyrene	ND	ND	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 17:58	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	83%	23 – 131	12/20/2024 17:58	
2-Fluorobiphenyl	321-60-8	73.3%	24 – 116	12/20/2024 17:58	
2-Fluorophenol	367-12-4	40.3%	10 – 85	12/20/2024 17:58	
Nitrobenzene-d5	4165-60-0	63.1%	32 – 125	12/20/2024 17:58	
Phenol-d5	4165-62-2	38.9%	7 – 56	12/20/2024 17:58	
Terphenyl-d14	98904-43-9	50%	41 – 145	12/20/2024 17:58	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 14:59	ILY	A

Results

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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 14:59	ILY	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:59	ILY	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 14:59	ILY	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 14:59	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 14:59	ILY	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 14:59	ILY	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:59	ILY	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:59	ILY	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 14:59	ILY	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 14:59	ILY	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 14:59	ILY	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:59	ILY	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:59	ILY	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 14:59	ILY	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:59	ILY	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:59	ILY	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 14:59	ILY	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:59	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 14:59	ILY	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 14:59	ILY	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:59	ILY	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:59	ILY	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 14:59	ILY	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:59	ILY	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 14:59	ILY	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 14:59	ILY	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:59	ILY	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:59	ILY	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 14:59	ILY	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 14:59	ILY	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:59	ILY	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:59	ILY	A
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 14:59	ILY	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 14:59	ILY	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 14:59	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 14:59	ILY	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 14:59	ILY	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 14:59	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 14:59	ILY	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 14:59	ILY	A

Results

Client Sample ID	MW-30	Collected	12/13/2024 09:30
Lab Sample ID	3392316005	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	12/20/2024 14:59	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	12/20/2024 14:59	
Dibromofluoromethane	1868-53-7	105%	78 – 116	12/20/2024 14:59	
Toluene-d8	2037-26-5	109%	76 – 127	12/20/2024 14:59	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	11	1	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	280	2	mg/L	5	5	SM2320B-2011	1	12/27/2024 10:45	JXK	I
Chloride	46.3		mg/L	5.0	2.2	SW846 9056A	5	12/14/2024 18:41	J1W	I
Nitrate-N	14.0		mg/L	2.5	0.80	SW846 9056A	5	12/14/2024 18:41	J1W	I
pH	8.49	3	pH_Units			S4500HB-11	1	12/19/2024 17:07	KMV	I
Specific Conductance	1470		umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	423		mg/L	5.0	3.5	SW846 9056A	5	12/14/2024 18:41	J1W	I
Total Dissolved Solids	1100		mg/L	25	25	SM2540C-15	1	12/18/2024 15:15	RAG	I
Turbidity	1.9		NTU	0.30	0.30	SM2130B-2011	1	12/14/2024 11:59	NPF	I

Results

Client Sample ID	MW-9S	Collected	12/13/2024 10:55
Lab Sample ID	3392316006	Lab Receipt	12/14/2024 08:41

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,S1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Aluminum, Total	ND	ND,S1	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Antimony, Dissolved	ND	ND,S1	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Antimony, Total	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Arsenic, Dissolved	ND	ND,S1	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Arsenic, Total	ND	ND,S1	mg/L	0.0090	0.0037	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Barium, Dissolved	0.024	S1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Barium, Total	0.023	S1	mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Beryllium, Dissolved	ND	ND,S1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Beryllium, Total	ND	ND,S1	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Cadmium, Dissolved	ND	ND,S1	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Cadmium, Total	ND	ND,S1	mg/L	0.0022	0.00073	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Calcium, Dissolved	450	S1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Calcium, Total	453	S1	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Chromium, Dissolved	ND	ND,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Chromium, Total	0.0022J	J,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Cobalt, Dissolved	ND	ND,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:26	MSY	G1
Cobalt, Total	ND	ND,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Copper, Dissolved	0.0046J	J,S1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Copper, Total	0.0082J	J,S1	mg/L	0.011	0.0036	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Iron, Dissolved	0.66	S1	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Iron, Total	0.78	S1	mg/L	0.067	0.022	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Lead, Dissolved	ND	ND,S1	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Lead, Total	ND	ND,S1	mg/L	0.0067	0.0022	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Magnesium, Dissolved	61.9	S1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Magnesium, Total	63.7	S1	mg/L	0.11	0.036	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Manganese, Dissolved	1.0	S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Manganese, Total	0.99	S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Mercury, Dissolved	ND	ND,S1	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 12:05	AJN	G
Mercury, Total	ND	ND,S1	mg/L	0.00050	0.00017	SW846 7470A	1	12/18/2024 11:25	AJN	E
Nickel, Dissolved	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Nickel, Total	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Potassium, Dissolved	2.6	S1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Potassium, Total	2.5	S1	mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Selenium, Dissolved	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Selenium, Total	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Silver, Dissolved	ND	ND,S1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Silver, Total	ND	ND,S1	mg/L	0.0044	0.0014	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Sodium, Dissolved	21.8	S1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Sodium, Total	21.8	S1	mg/L	0.56	0.18	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Thallium, Dissolved	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Thallium, Total	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Vanadium, Dissolved	ND	ND,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Vanadium, Total	ND	ND,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/09/2025 09:31	MSY	E1
Zinc, Dissolved	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:28	MSY	G1
Zinc, Total	ND	ND,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/09/2025 09:31	MSY	E1

Results

Client Sample ID	MW-9S	Collected	12/13/2024 10:55
Lab Sample ID	3392316006	Lab Receipt	12/14/2024 08:41

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
1,4-Dioxane	ND	ND,S1	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,4,5-Trichlorophenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,4,6-Trichlorophenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,4-Dichlorophenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,4-Dimethylphenol	35.0	S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,4-Dinitrophenol	ND	ND,S1	ug/L	6.0	4.3	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,4-Dinitrotoluene	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
2,6-Dinitrotoluene	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
2-Chloronaphthalene	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
2-Chlorophenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND,S1	ug/L	6.0	3.0	SW846 8270E	1	12/20/2024 19:12	S7M	D
2-Methylnaphthalene	99.3	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
2-Nitroaniline	ND	ND,S1	ug/L	3.0	0.26	SW846 8270E	1	12/20/2024 19:12	S7M	D
2-Nitrophenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
3,3-Dichlorobenzidine	ND	ND,S1	ug/L	16.0	8.5	SW846 8270E	1	12/20/2024 19:12	S7M	D
3-Nitroaniline	ND	ND,S1	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:12	S7M	D
4-Bromophenyl-phenylether	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
4-Chloro-3-methylphenol	ND	ND,S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
4-Chloroaniline	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
4-Chlorophenyl-phenylether	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
4-Nitroaniline	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
4-Nitrophenol	ND	ND,S1	ug/L	3.0	1.1	SW846 8270E	1	12/20/2024 19:12	S7M	D
Acenaphthene	ND	ND,S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Acenaphthylene	3.8	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Acetophenone	7.7	S1	ug/L	3.0	0.90	SW846 8270E	1	12/20/2024 19:12	S7M	D
Anthracene	16.1	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Atrazine	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Benzaldehyde	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Benzo(a)anthracene	1.4J	J,S1	ug/L	1.5	0.28	SW846 8270E	1	12/20/2024 19:12	S7M	D
Benzo(a)pyrene	0.56J	J,S1	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:12	S7M	D
Benzo(b)fluoranthene	0.73J	J,S1	ug/L	1.5	0.30	SW846 8270E	1	12/20/2024 19:12	S7M	D
Benzo(g,h,i)perylene	ND	ND,S1	ug/L	1.5	0.36	SW846 8270E	1	12/20/2024 19:12	S7M	D
Benzo(k)fluoranthene	ND	ND,S1	ug/L	1.5	0.34	SW846 8270E	1	12/20/2024 19:12	S7M	D
Biphenyl	2.4J	J,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
bis(2-Chloroethoxy)methane	0.32J	J,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
bis(2-Chloroethyl)ether	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND,S1	ug/L	3.0	0.47	SW846 8270E	1	12/20/2024 19:12	S7M	D
Butylbenzylphthalate	ND	ND,S1	ug/L	3.0	0.31	SW846 8270E	1	12/20/2024 19:12	S7M	D
Caprolactam	ND	ND,S1	ug/L	3.0	0.36	SW846 8270E	1	12/20/2024 19:12	S7M	D
Carbazole	353	S1	ug/L	60.0	5.0	SW846 8270E	20	12/24/2024 06:55	M1O	D

Results

Client Sample ID	MW-9S	Collected	12/13/2024 10:55
Lab Sample ID	3392316006	Lab Receipt	12/14/2024 08:41

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.94J	J,S1	ug/L	1.5	0.26	SW846 8270E	1	12/20/2024 19:12	S7M	D
Dibenzo(a,h)anthracene	ND	ND,S1	ug/L	1.5	0.32	SW846 8270E	1	12/20/2024 19:12	S7M	D
Dibenzofuran	6.6	S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Diethylphthalate	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Dimethylphthalate	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Di-n-Butylphthalate	ND	ND,S1	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:12	S7M	D
Di-n-Octylphthalate	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Fluoranthene	17.3	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Fluorene	6.8	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Hexachlorobenzene	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Hexachlorobutadiene	ND	ND,S1	ug/L	3.0	0.28	SW846 8270E	1	12/20/2024 19:12	S7M	D
Hexachlorocyclopentadiene	ND	ND,S1	ug/L	3.0	0.43	SW846 8270E	1	12/20/2024 19:12	S7M	D
Hexachloroethane	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Indeno(1,2,3-cd)pyrene	ND	ND,S1	ug/L	1.5	0.31	SW846 8270E	1	12/20/2024 19:12	S7M	D
Isophorone	ND	ND,S1	ug/L	3.0	0.37	SW846 8270E	1	12/20/2024 19:12	S7M	D
mp-Cresol	9.2	S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
Naphthalene	3620	S1	ug/L	150	65.0	SW846 8270E	100	12/26/2024 23:43	M1O	D
Nitrobenzene	ND	ND,S1	ug/L	3.0	0.58	SW846 8270E	1	12/20/2024 19:12	S7M	D
N-Nitroso-di-n-propylamine	ND	ND,S1	ug/L	3.0	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
N-Nitrosodiphenylamine	ND	ND,S1	ug/L	3.0	0.32	SW846 8270E	1	12/20/2024 19:12	S7M	D
o-Cresol	17.8	S1	ug/L	3.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
Pentachlorophenol	ND	ND,S1	ug/L	8.0	1.4	SW846 8270E	1	12/20/2024 19:12	S7M	D
Phenanthrene	109	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D
Phenol	7.7J	J,S1	ug/L	8.0	0.50	SW846 8270E	1	12/20/2024 19:12	S7M	D
Pyrene	9.8	S1	ug/L	1.5	0.25	SW846 8270E	1	12/20/2024 19:12	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	100%	23 – 131	12/20/2024 19:12	
2-Fluorobiphenyl	321-60-8	4.57*%	24 – 116	12/20/2024 19:12	11
2-Fluorophenol	367-12-4	52.2%	10 – 85	12/20/2024 19:12	
Nitrobenzene-d5	4165-60-0	79.2%	32 – 125	12/20/2024 19:12	
Phenol-d5	4165-62-2	42.9%	7 – 56	12/20/2024 19:12	
Terphenyl-d14	98904-43-9	49%	41 – 145	12/20/2024 19:12	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,S1	ug/L	500	110	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND,S1	ug/L	500	170	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,1,2-Trichloroethane	ND	ND,S1	ug/L	500	165	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,1-Dichloroethane	ND	ND,S1	ug/L	500	140	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,1-Dichloroethene	ND	ND,S1	ug/L	500	145	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2,3-Trichlorobenzene	ND	ND,S1	ug/L	1000	465	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2,3-Trichloropropane	ND	ND,S1	ug/L	1000	300	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2,4-Trichlorobenzene	ND	ND,S1	ug/L	1000	410	SW846 8260D	500	12/20/2024 18:38	ILY	A

Results

Client Sample ID	MW-9S	Collected	12/13/2024 10:55
Lab Sample ID	3392316006	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	171J	J,S1	ug/L	500	125	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND,S1	ug/L	3500	750	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2-Dibromoethane	ND	ND,S1	ug/L	500	140	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2-Dichlorobenzene	ND	ND,S1	ug/L	500	190	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2-Dichloroethane	ND	ND,S1	ug/L	500	160	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,2-Dichloropropane	ND	ND,S1	ug/L	500	120	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,3,5-Trimethylbenzene	ND	ND,S1	ug/L	500	100	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,3-Dichlorobenzene	ND	ND,S1	ug/L	500	125	SW846 8260D	500	12/20/2024 18:38	ILY	A
1,4-Dichlorobenzene	ND	ND,S1	ug/L	500	135	SW846 8260D	500	12/20/2024 18:38	ILY	A
2-Butanone	ND	ND,S1	ug/L	5000	900	SW846 8260D	500	12/20/2024 18:38	ILY	A
2-Hexanone	ND	ND,S1	ug/L	2500	650	SW846 8260D	500	12/20/2024 18:38	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,S1	ug/L	2500	750	SW846 8260D	500	12/20/2024 18:38	ILY	A
Acetone	ND	ND,S1	ug/L	5000	1550	SW846 8260D	500	12/20/2024 18:38	ILY	A
Benzene	308J	J,S1	ug/L	500	115	SW846 8260D	500	12/20/2024 18:38	ILY	A
Bromochloromethane	ND	ND,S1	ug/L	500	160	SW846 8260D	500	12/20/2024 18:38	ILY	A
Bromodichloromethane	ND	ND,S1	ug/L	500	135	SW846 8260D	500	12/20/2024 18:38	ILY	A
Bromoform	ND	ND,S1	ug/L	500	200	SW846 8260D	500	12/20/2024 18:38	ILY	A
Bromomethane	ND	ND,S1	ug/L	500	195	SW846 8260D	500	12/20/2024 18:38	ILY	A
Carbon Disulfide	ND	ND,S1	ug/L	500	115	SW846 8260D	500	12/20/2024 18:38	ILY	A
Carbon Tetrachloride	ND	ND,S1	ug/L	500	155	SW846 8260D	500	12/20/2024 18:38	ILY	A
Chlorobenzene	ND	ND,S1	ug/L	500	95.0	SW846 8260D	500	12/20/2024 18:38	ILY	A
Chlorodibromomethane	ND	ND,S1	ug/L	500	225	SW846 8260D	500	12/20/2024 18:38	ILY	A
Chloroethane	ND	ND,S1	ug/L	500	165	SW846 8260D	500	12/20/2024 18:38	ILY	A
Chloroform	ND	ND,S1	ug/L	500	105	SW846 8260D	500	12/20/2024 18:38	ILY	A
Chloromethane	ND	ND,S1	ug/L	500	155	SW846 8260D	500	12/20/2024 18:38	ILY	A
cis-1,2-Dichloroethene	ND	ND,S1	ug/L	500	160	SW846 8260D	500	12/20/2024 18:38	ILY	A
cis-1,3-Dichloropropene	ND	ND,S1	ug/L	500	155	SW846 8260D	500	12/20/2024 18:38	ILY	A
Cyclohexane	ND	ND,S1	ug/L	500	145	SW846 8260D	500	12/20/2024 18:38	ILY	A
Dichlorodifluoromethane	ND	ND,S1	ug/L	500	165	SW846 8260D	500	12/20/2024 18:38	ILY	A
Ethylbenzene	ND	ND,S1	ug/L	500	170	SW846 8260D	500	12/20/2024 18:38	ILY	A
Freon 113	ND	ND,S1	ug/L	500	130	SW846 8260D	500	12/20/2024 18:38	ILY	A
Isopropylbenzene	ND	ND,S1	ug/L	500	110	SW846 8260D	500	12/20/2024 18:38	ILY	A
Methyl acetate	ND	ND,S1	ug/L	1000	160	SW846 8260D	500	12/20/2024 18:38	ILY	A
Methyl cyclohexane	ND	ND,S1	ug/L	500	150	SW846 8260D	500	12/20/2024 18:38	ILY	A
Methyl t-Butyl Ether	ND	ND,S1	ug/L	500	165	SW846 8260D	500	12/20/2024 18:38	ILY	A
Methylene Chloride	ND	ND,S1	ug/L	500	225	SW846 8260D	500	12/20/2024 18:38	ILY	A
mp-Xylene	ND	ND,S1	ug/L	1000	260	SW846 8260D	500	12/20/2024 18:38	ILY	A
o-Xylene	ND	ND,S1	ug/L	500	165	SW846 8260D	500	12/20/2024 18:38	ILY	A
Styrene	ND	ND,S1	ug/L	500	120	SW846 8260D	500	12/20/2024 18:38	ILY	A
Tetrachloroethene	ND	ND,S1	ug/L	500	175	SW846 8260D	500	12/20/2024 18:38	ILY	A
Toluene	ND	ND,S1	ug/L	500	115	SW846 8260D	500	12/20/2024 18:38	ILY	A
Total Xylenes	ND	ND,S1	ug/L	1500	330	SW846 8260D	500	12/20/2024 18:38	ILY	A
trans-1,2-Dichloroethene	ND	ND,S1	ug/L	500	130	SW846 8260D	500	12/20/2024 18:38	ILY	A
trans-1,3-Dichloropropene	ND	ND,S1	ug/L	500	145	SW846 8260D	500	12/20/2024 18:38	ILY	A
Trichloroethene	ND	ND,S1	ug/L	500	165	SW846 8260D	500	12/20/2024 18:38	ILY	A
Trichlorofluoromethane	ND	ND,S1	ug/L	500	120	SW846 8260D	500	12/20/2024 18:38	ILY	A
Vinyl Chloride	ND	ND,S1	ug/L	500	150	SW846 8260D	500	12/20/2024 18:38	ILY	A

Results

Client Sample ID	MW-9S	Collected	12/13/2024 10:55
Lab Sample ID	3392316006	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	12/20/2024 18:38	
4-Bromofluorobenzene	460-00-4	97.1%	79 – 114	12/20/2024 18:38	
Dibromofluoromethane	1868-53-7	101%	78 – 116	12/20/2024 18:38	
Toluene-d8	2037-26-5	106%	76 – 127	12/20/2024 18:38	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	47	1,S1	mg/L	5	5	SM2310B-2011	1	12/24/2024 14:55	RAG	I
Alkalinity, Total	528	2,S1	mg/L	50	50	SM2320B-2011	10	12/27/2024 10:55	JXK	I
Chloride	7.5	S1	mg/L	5.0	2.2	SW846 9056A	5	12/14/2024 18:52	J1W	I
Nitrate-N	1.2J	J,S1	mg/L	2.5	0.80	SW846 9056A	5	12/14/2024 18:52	J1W	I
pH	8.17	3,S1	pH_Units			S4500HB-11	1	12/19/2024 17:20	KMV	I
Specific Conductance	2150	S1	umhos/cm	5	0.1	SW846 9050A	1	12/24/2024 11:07	EEH	I
Sulfate	894	12,S1	mg/L	10.0	7.0	SW846 9056A	10	12/18/2024 02:46	J1W	I
Total Dissolved Solids	1810	S1	mg/L	25	25	SM2540C-15	1	12/18/2024 16:10	RAG	I
Turbidity	9.5	S1	NTU	0.30	0.30	SM2130B-2011	1	12/14/2024 11:59	NPF	I

Results

Client Sample ID	TB-44	Collected	12/13/2024 00:00
Lab Sample ID	3392316007	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/20/2024 12:00	ILY	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 12:00	ILY	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/20/2024 12:00	ILY	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/20/2024 12:00	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/20/2024 12:00	ILY	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/20/2024 12:00	ILY	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 12:00	ILY	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 12:00	ILY	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/20/2024 12:00	ILY	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/20/2024 12:00	ILY	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/20/2024 12:00	ILY	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 12:00	ILY	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 12:00	ILY	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/20/2024 12:00	ILY	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 12:00	ILY	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 12:00	ILY	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/20/2024 12:00	ILY	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 12:00	ILY	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/20/2024 12:00	ILY	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/20/2024 12:00	ILY	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 12:00	ILY	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 12:00	ILY	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/20/2024 12:00	ILY	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 12:00	ILY	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/20/2024 12:00	ILY	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/20/2024 12:00	ILY	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 12:00	ILY	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 12:00	ILY	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/20/2024 12:00	ILY	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/20/2024 12:00	ILY	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 12:00	ILY	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 12:00	ILY	A

Results

Client Sample ID	TB-44	Collected	12/13/2024 00:00
Lab Sample ID	3392316007	Lab Receipt	12/14/2024 08:41

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/20/2024 12:00	ILY	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/20/2024 12:00	ILY	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/20/2024 12:00	ILY	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/20/2024 12:00	ILY	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/20/2024 12:00	ILY	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/20/2024 12:00	ILY	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/20/2024 12:00	ILY	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/20/2024 12:00	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	97.8%	62 – 133	12/20/2024 12:00	
4-Bromofluorobenzene	460-00-4	98.3%	79 – 114	12/20/2024 12:00	
Dibromofluoromethane	1868-53-7	94.3%	78 – 116	12/20/2024 12:00	
Toluene-d8	2037-26-5	98.8%	76 – 127	12/20/2024 12:00	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392316001	MW-35S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392316002	MW-35D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392316003	MW-6S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392316004	MW-6D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392316005	MW-30	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392316006	MW-9S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392316007	TB-44	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1356008	Prep Method	SW846 3015A
Date	12/16/2024 10:12	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Matrix Spike 3918341 (MS) 3392003002 (non-Project Sample) For QC Batch 1356008

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918342 (MSD) 3392003002 (non-Project Sample) For QC Batch 1356008

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	MS	1.2	0.0012	1.10	105	75 - 125		
Aluminum, Total	7429-90-5	MSD	1.1	0.0012	1.10	103	75 - 125	RPD 1.71 (Max-20)	
Antimony, Total	7440-36-0	MS	0.14	0	0.22	61.7*	75 - 125		
Antimony, Total	7440-36-0	MSD	0.14	0	0.22	61.4*	75 - 125	RPD 0.41 (Max-20)	
Arsenic, Total	7440-38-2	MS	0.12	0.0081	0.11	104	75 - 125		
Arsenic, Total	7440-38-2	MSD	0.12	0.0081	0.11	105	75 - 125	RPD 0.99 (Max-20)	
Barium, Total	7440-39-3	MS	1.2	0.0260	1.10	105	75 - 125		
Barium, Total	7440-39-3	MSD	1.2	0.0260	1.10	103	75 - 125	RPD 1.52 (Max-20)	
Beryllium, Total	7440-41-7	MS	0.24	0	0.22	107	75 - 125		
Beryllium, Total	7440-41-7	MSD	0.23	0	0.22	105	75 - 125	RPD 1.65 (Max-20)	
Cadmium, Total	7440-43-9	MS	0.11	0	0.11	103	75 - 125		
Cadmium, Total	7440-43-9	MSD	0.11	0	0.11	102	75 - 125	RPD 1.56 (Max-20)	
Calcium, Total	7440-70-2	MS	124	124	1.10	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	124	124	1.10	NC	75 - 125	RPD 0.25 (Max-20)	
Chromium, Total	7440-47-3	MS	0.12	0.0010	0.11	105	75 - 125		
Chromium, Total	7440-47-3	MSD	0.11	0.0010	0.11	103	75 - 125	RPD 2.01 (Max-20)	
Cobalt, Total	7440-48-4	MS	1.1	0	1.10	101	75 - 125		
Cobalt, Total	7440-48-4	MSD	1.1	0	1.10	101	75 - 125	RPD 0.59 (Max-20)	
Copper, Total	7440-50-8	MS	1.1	0.0010	1.10	102	75 - 125		
Copper, Total	7440-50-8	MSD	1.1	0.0010	1.10	101	75 - 125	RPD 0.57 (Max-20)	
Iron, Total	7439-89-6	MS	1.2	0.0590	1.10	100	75 - 125		
Iron, Total	7439-89-6	MSD	1.2	0.0590	1.10	101	75 - 125	RPD 0.76 (Max-20)	
Lead, Total	7439-92-1	MS	0.12	0	0.11	105	75 - 125		
Lead, Total	7439-92-1	MSD	0.11	0	0.11	101	75 - 125	RPD 4.27 (Max-20)	
Magnesium, Total	7439-95-4	MS	47.8	46.90	1.10	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	48	46.90	1.10	NC	75 - 125	RPD 0.41 (Max-20)	
Manganese, Total	7439-96-5	MS	0.48	0.36	0.11	105	75 - 125		
Manganese, Total	7439-96-5	MSD	0.47	0.36	0.11	103	75 - 125	RPD 0.47 (Max-20)	
Nickel, Total	7440-02-0	MS	1.1	0	1.10	100	75 - 125		
Nickel, Total	7440-02-0	MSD	1.1	0	1.10	99.3	75 - 125	RPD 0.63 (Max-20)	
Potassium, Total	7440-09-7	MS	39.5	14.60	22.20	112	75 - 125		
Potassium, Total	7440-09-7	MSD	37.3	14.60	22.20	102	75 - 125	RPD 5.69 (Max-20)	
Selenium, Total	7782-49-2	MS	1.2	0	1.10	105	75 - 125		
Selenium, Total	7782-49-2	MSD	1.2	0	1.10	104	75 - 125	RPD 0.67 (Max-20)	
Silver, Total	7440-22-4	MS	0.12	0	0.11	107	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Silver, Total	7440-22-4	MSD	0.12	0	0.11	107	75 - 125	RPD 0.09 (Max-20)	
Sodium, Total	7440-23-5	MS	47.3	22.40	22.20	112	75 - 125		
Sodium, Total	7440-23-5	MSD	45.3	22.40	22.20	103	75 - 125	RPD 4.35 (Max-20)	
Thallium, Total	7440-28-0	MS	0.11	0	0.11	101	75 - 125		
Thallium, Total	7440-28-0	MSD	0.11	0	0.11	99.7	75 - 125	RPD 1.10 (Max-20)	
Vanadium, Total	7440-62-2	MS	0.056	0	0.0560	101	75 - 125		
Vanadium, Total	7440-62-2	MSD	0.055	0	0.0560	99.2	75 - 125	RPD 1.60 (Max-20)	
Zinc, Total	7440-66-6	MS	0.55	0	0.56	98.3	75 - 125		
Zinc, Total	7440-66-6	MSD	0.54	0	0.56	97.9	75 - 125	RPD 0.43 (Max-20)	

Method Blank 3918339 (MB) Created on 12/16/2024 01:37 For QC Batch 1356008

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	0.0036J	mg/L	0.0056	J
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	0.030J	mg/L	0.067	J
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3918340 (LCS) Created on 12/16/2024 01:37 For QC Batch 1356008

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	105	80 - 120		
Antimony, Total	7440-36-0	LCS	0.19		0.22	83.6	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	106	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Barium, Total	7440-39-3	LCS	1.2		1.10	109	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	109	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	108	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	97.2	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	108	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	107	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	101	80 - 120		
Iron, Total	7439-89-6	LCS	1.2		1.10	106	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	109	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	111	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	111	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	106	80 - 120		
Potassium, Total	7440-09-7	LCS	23.3		22.20	105	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	106	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	106	80 - 120		
Sodium, Total	7440-23-5	LCS	23.7		22.20	107	80 - 120		
Thallium, Total	7440-28-0	LCS	0.11		0.11	96.1	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.057		0.0560	103	80 - 120		
Zinc, Total	7440-66-6	LCS	0.59		0.56	106	80 - 120		

QC Batch

QC Batch	1356801	Prep Method	SW846 7470A
Date	12/18/2024 07:29	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Matrix Spike 3919759 (MS) 3392161003 (non-Project Sample) For QC Batch 1356801

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919760 (MSD) 3392161003 (non-Project Sample) For QC Batch 1356801

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0052	0	0.0050	103	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0	0.0050	96	70 - 130	RPD 7.23 (Max-20)	

Method Blank 3919757 (MB) Created on 12/18/2024 07:09 For QC Batch 1356801

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3919758 (LCS) Created on 12/18/2024 07:09 For QC Batch 1356801

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.002		0.0020	97.5	85 - 115		

Matrix Spike 3919761 (MS) 3392316002 For QC Batch 1356801

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919762 (MSD) 3392316002 For QC Batch 1356801

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0052	0.000013	0.0050	103	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0.000013	0.0050	96.1	70 - 130	RPD 7.01 (Max-20)	

QC Batch

QC Batch	1356803	Prep Method	SW846 7470A
Date	12/18/2024 07:29	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Matrix Spike 3919770 (MS) 3392207005 (non-Project Sample) For QC Batch 1356803

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919771 (MSD) 3392207005 (non-Project Sample) For QC Batch 1356803

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.003	0.000003	0.0050	60.3*	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0029	0.000003	0.0050	57.5*	70 - 130	RPD 4.75 (Max-20)	

Method Blank 3919766 (MB) Created on 12/18/2024 07:12 For QC Batch 1356803

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3919767 (LCS) Created on 12/18/2024 07:12 For QC Batch 1356803

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0019		0.0020	97	85 - 115		

QC Batch

QC Batch	1358105	Prep Method	SW846 3015A
Date	12/20/2024 11:38	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392316004 3392316005 3392316006

Method Blank 3921365 (MB) Created on 12/20/2024 07:53 For QC Batch 1358105

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3921366 (LCS) Created on 12/20/2024 07:53 For QC Batch 1358105

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.2		1.10	104	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.18		0.22	81	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.12		0.11	106	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	108	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.24		0.22	108	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	108	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.2		1.10	104	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	108	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	108	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	103	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	106	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	108	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	107	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	113	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	107	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	23		22.20	104	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	107	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.6		22.20	106	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	97.7	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.06		0.0560	107	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.58		0.56	105	80 - 120		

Matrix Spike 3921367 (MS) 3392316004 For QC Batch 1358105

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921368 (MSD) 3392316004 For QC Batch 1358105

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.1	0	1.10	102	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.1	0	1.10	101	75 - 125	RPD 0.87 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.12	0	0.22	52.8*	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.11	0	0.22	49.6*	75 - 125	RPD 6.15 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0.000560	0.11	105	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.12	0.000560	0.11	106	75 - 125	RPD 1.41 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0130	1.10	103	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.1	0.0130	1.10	102	75 - 125	RPD 0.78 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.23	0	0.22	104	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.23	0	0.22	103	75 - 125	RPD 0.72 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000560	0.11	99.8	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000560	0.11	99.2	75 - 125	RPD 0.60 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	452	455	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	453	455	1.10	NC	75 - 125	RPD 0.21 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chromium, Dissolved	7440-47-3_D	MS	0.12	0.0026	0.11	103	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0026	0.11	102	75 - 125	RPD 0.86 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	101	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	101	75 - 125	RPD 0.05 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.2	0.0230	1.10	104	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0230	1.10	104	75 - 125	RPD 0.87 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	1.2	0.0640	1.10	101	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	1.2	0.0640	1.10	101	75 - 125	RPD 0.78 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.1	0	0.11	93.5	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.1	0	0.11	93.3	75 - 125	RPD 0.21 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	55.5	54.90	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	55.6	54.90	1.10	NC	75 - 125	RPD 0.22 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.16	0.0440	0.11	106	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.16	0.0440	0.11	108	75 - 125	RPD 0.95 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0.0056	1.10	99.3	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0.0056	1.10	99	75 - 125	RPD 0.30 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	26.4	3.20	22.20	105	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	26.4	3.20	22.20	105	75 - 125	RPD 0.12 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.4	0.27	1.10	105	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.4	0.27	1.10	105	75 - 125	RPD 0.14 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	108	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	107	75 - 125	RPD 0.56 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	121	99	22.20	NC	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	121	99	22.20	NC	75 - 125	RPD 0.32 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.1	0	0.11	92.6	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.1	0	0.11	93.8	75 - 125	RPD 1.29 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.056	0	0.0560	101	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.056	0	0.0560	100	75 - 125	RPD 0.79 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.65	0.12	0.56	95.2	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.64	0.12	0.56	94.9	75 - 125	RPD 0.26 (Max-20)	

QC Batch

QC Batch	1363881	Prep Method	SW846 3015A
Date	01/03/2025 05:05	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392316001 3392316002 3392316003

Matrix Spike 3925461 (MS) 3391836012 (non-Project Sample) For QC Batch 1363881

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3925462 (MSD) 3391836012 (non-Project Sample) For QC Batch 1363881

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.1	0	1.10	102	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.1	0	1.10	103	75 - 125	RPD 0.89 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.24	0.0059	0.22	106	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.25	0.0059	0.22	108	75 - 125	RPD 1.28 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0	0.11	106	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.12	0	0.11	111	75 - 125	RPD 4.15 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0480	1.10	101	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.2	0.0480	1.10	102	75 - 125	RPD 0.77 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.23	0	0.22	102	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.23	0	0.22	103	75 - 125	RPD 0.73 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000110	0.11	98.6	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000110	0.11	99.6	75 - 125	RPD 1.01 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	341	341	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	343	341	1.10	NC	75 - 125	RPD 0.54 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.11	0.0024	0.11	101	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0024	0.11	101	75 - 125	RPD 0.19 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	100	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	102	75 - 125	RPD 1.60 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.1	0.0039	1.10	102	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0039	1.10	104	75 - 125	RPD 1.99 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	14.3	13.10	1.10	NC	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	14.4	13.10	1.10	NC	75 - 125	RPD 1.11 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.11	0	0.11	96.2	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.1	0	0.11	93.1	75 - 125	RPD 3.28 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	46.5	45.70	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	46.8	45.70	1.10	NC	75 - 125	RPD 0.64 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.94	0.81	0.11	NC	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.93	0.81	0.11	NC	75 - 125	RPD 0.29 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0	1.10	99.2	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0	1.10	101	75 - 125	RPD 1.81 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	39	16.10	22.20	103	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	39	16.10	22.20	103	75 - 125	RPD 0.18 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.2	0.0024	1.10	107	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.2	0.0024	1.10	107	75 - 125	RPD 0.17 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	108	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	109	75 - 125	RPD 1.11 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	101	78.10	22.20	102	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	101	78.10	22.20	103	75 - 125	RPD 0.18 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.097	0	0.11	87.1	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.1	0	0.11	94.5	75 - 125	RPD 8.15 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.052	0	0.0560	93	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.053	0	0.0560	94.6	75 - 125	RPD 1.71 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.54	0	0.56	97.1	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.55	0	0.56	98.3	75 - 125	RPD 1.21 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Method Blank 3925459 (MB) Created on 01/03/2025 00:19 For QC Batch 1363881

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3925460 (LCS) Created on 01/03/2025 00:19 For QC Batch 1363881

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.1		1.10	102	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.24		0.22	106	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.11		0.11	98.3	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	105	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.23		0.22	106	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	105	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.1		1.10	98.6	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	106	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	108	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	103	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	105	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	104	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	105	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	116	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	107	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	22.6		22.20	102	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	107	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.2		22.20	104	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	98.4	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.055		0.0560	99.2	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.6		0.56	108	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1357590	Prep Method	SW846 3510C
Date	12/19/2024 16:40	Analysis Method	SW846 8270E
Tech.	BMP		

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Matrix Spike 3921156 (MS) 3392797001 (non-Project Sample) For QC Batch 1357590

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921157 (MSD) 3392797001 (non-Project Sample) For QC Batch 1357590

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2,4,5-Trichlorophenol	95-95-4	MS	431	0	500	86.1	44 - 148		
2,4,5-Trichlorophenol	95-95-4	MSD	477	0	500	95.4	44 - 148	RPD 10.30 (Max-23)	
2,4,6-Trichlorophenol	88-06-2	MS	397	0	500	79.5	41 - 148		
2,4,6-Trichlorophenol	88-06-2	MSD	463	0	500	92.6	41 - 148	RPD 15.20 (Max-23)	
2,4-Dinitrotoluene	121-14-2	MS	240	0	250	96.2	49 - 138		
2,4-Dinitrotoluene	121-14-2	MSD	248	0	250	99.2	49 - 138	RPD 3.04 (Max-22)	
Hexachlorobenzene	118-74-1	MS	196	0	250	78.4	59 - 109		
Hexachlorobenzene	118-74-1	MSD	215	0	250	86.1	59 - 109	RPD 9.40 (Max-21)	
Hexachlorobutadiene	87-68-3	MS	98	0	250	39.2	5 - 126		
Hexachlorobutadiene	87-68-3	MSD	108	0	250	43.2	5 - 126	RPD 9.74 (Max-30)	
Hexachloroethane	67-72-1	MS	82	0	250	32.8	5 - 111		
Hexachloroethane	67-72-1	MSD	90.7	0	250	36.3	5 - 111	RPD 10.10 (Max-30)	
mp-Cresol	108394/106445	MS	353	0	500	70.5	28 - 128		
mp-Cresol	108394/106445	MSD	386	0	500	77.2	28 - 128	RPD 9.08 (Max-20)	
Naphthalene	91-20-3	MS	146	9.70	250	54.3	21 - 123		
Naphthalene	91-20-3	MSD	164	9.70	250	61.7	21 - 123	RPD 11.90 (Max-30)	
Nitrobenzene	98-95-3	MS	164	0	250	65.6	41 - 128		
Nitrobenzene	98-95-3	MSD	183	0	250	73.1	41 - 128	RPD 10.80 (Max-19)	
o-Cresol	95-48-7	MS	339	0	500	67.8	34 - 136		
o-Cresol	95-48-7	MSD	374	0	500	74.8	34 - 136	RPD 9.86 (Max-23)	
Pentachlorophenol	87-86-5	MS	536	0	500	107	41 - 149		
Pentachlorophenol	87-86-5	MSD	587	0	500	117	41 - 149	RPD 9.10 (Max-28)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	431	500	86.3	23 - 131	
2,4,6-Tribromophenol	118-79-6	MSD	482	500	96.4	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	166	250	66.3	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	193	250	77.2	24 - 116	
2-Fluorophenol	367-12-4	MS	213	500	42.6	10 - 85	
2-Fluorophenol	367-12-4	MSD	249	500	49.9	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	162	250	64.6	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	181	250	72.5	32 - 125	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Phenol-d5	4165-62-2	MS	188	500	37.5	7 - 56	
Phenol-d5	4165-62-2	MSD	204	500	40.7	7 - 56	
Terphenyl-d14	98904-43-9	MS	162	250	65	41 - 145	
Terphenyl-d14	98904-43-9	MSD	203	250	81.3	41 - 145	

Method Blank 3921154 (MB) Created on 12/19/2024 15:01 For QC Batch 1357590

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	87.3	100	87.3	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	36.9	50	73.7	24 - 116	
2-Fluorophenol	367-12-4	BLK	51.5	100	51.5	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	36.7	50	73.3	32 - 125	
Phenol-d5	4165-62-2	BLK	41.4	100	41.4	7 - 56	
Terphenyl-d14	98904-43-9	BLK	50.9	50	102	41 - 145	

Lab Control Standard 3921155 (LCS) Created on 12/19/2024 15:01 For QC Batch 1357590

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	24.3		50	48.6	18 - 124		
1,4-Dioxane	123-91-1	LCS	17		50	34	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	74.9		100	74.9	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	78.4		100	78.4	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	68.1		100	68.1	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	78.1		100	78.1	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	97.9		100	97.9	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	69.6		100	69.6	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	48.8		50	97.6	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	47.8		50	95.6	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	32.8		50	65.5	27 - 125		
2-Chlorophenol	95-57-8	LCS	67.4		100	67.4	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	84.8		100	84.8	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	33.2		50	66.4	22 - 124		
2-Nitroaniline	88-74-4	LCS	47.7		50	95.4	55 - 138		
2-Nitrophenol	88-75-5	LCS	66.1		100	66.1	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	62.2		100	62.2	38 - 115		
3-Nitroaniline	99-09-2	LCS	41.1		50	82.2	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	41.4		50	82.8	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	97		100	97	46 - 144		
4-Chloroaniline	106-47-8	LCS	30.1		50	60.2	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	42.9		50	85.8	38 - 128		
4-Nitroaniline	100-01-6	LCS	48.4		50	96.7	53 - 124		
4-Nitrophenol	100-02-7	LCS	48.3		100	48.3	5 - 108		
Acenaphthene	83-32-9	LCS	39		50	78	36 - 130		
Acenaphthylene	208-96-8	LCS	34.7		50	69.5	39 - 130		
Acetophenone	98-86-2	LCS	36.2		50	72.4	49 - 117		
Anthracene	120-12-7	LCS	46.9		50	93.7	48 - 133		
Atrazine	1912-24-9	LCS	51.4		50	103	44 - 149		
Benzaldehyde	100-52-7	LCS	36.3		50	72.6	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	45.4		50	90.7	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	44.3		50	88.5	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	47.2		50	94.4	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	39.1		50	78.2	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	45.9		50	91.8	52 - 130		
Biphenyl	92-52-4	LCS	32.9		50	65.8	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	41.2		50	82.4	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	34.5		50	68.9	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	34.8		50	69.6	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	42.3		50	84.6	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	45.6		50	91.1	50 - 137		
Caprolactam	105-60-2	LCS	23		50	46	5 - 118		
Carbazole	86-74-8	LCS	46.6		50	93.3	52 - 139		
Chrysene	218-01-9	LCS	46.1		50	92.3	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	39.8		50	79.7	56 - 130		
Dibenzofuran	132-64-9	LCS	39.7		50	79.4	39 - 133		
Diethylphthalate	84-66-2	LCS	49.3		50	98.6	45 - 132		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dimethylphthalate	131-11-3	LCS	46.1		50	92.2	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	48.9		50	97.9	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	41.3		50	82.5	35 - 141		
Fluoranthene	206-44-0	LCS	48.5		50	96.9	49 - 132		
Fluorene	86-73-7	LCS	44.2		50	88.3	42 - 131		
Hexachlorobenzene	118-74-1	LCS	41.7		50	83.3	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	18.4		50	36.8	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	13.3		50	26.6	5 - 97		
Hexachloroethane	67-72-1	LCS	16.3		50	32.7	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	38.2		50	76.4	55 - 126		
Isophorone	78-59-1	LCS	40.7		50	81.5	45 - 129		
mp-Cresol	108394/106445	LCS	76.2		100	76.2	28 - 128		
Naphthalene	91-20-3	LCS	28.4		50	56.8	21 - 123		
Nitrobenzene	98-95-3	LCS	33.4		50	66.9	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	42.6		50	85.1	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	51.2		50	102	58 - 125		
o-Cresol	95-48-7	LCS	73.2		100	73.2	34 - 136		
Pentachlorophenol	87-86-5	LCS	84.4		100	84.4	41 - 149		
Phenanthrene	85-01-8	LCS	44.1		50	88.1	46 - 131		
Phenol	108-95-2	LCS	42.3		100	42.3	5 - 111		
Pyrene	129-00-0	LCS	46.2		50	92.3	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	78.4	100	78.4	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	35.3	50	70.5	24 - 116	
2-Fluorophenol	367-12-4	LCS	41.6	100	41.6	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	33.5	50	66.9	32 - 125	
Phenol-d5	4165-62-2	LCS	39.5	100	39.5	7 - 56	
Terphenyl-d14	98904-43-9	LCS	47.2	50	94.4	41 - 145	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1358219	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006	3392316007	

Duplicate 3921680 (DUP) 3392528001 (non-Project Sample) For QC Batch 1358219

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,1,1-Trichloroethane	71-55-6	DUP	2.1796	2.1094	RPD	3.27	(Max-)	
1,1,2,2-Tetrachloroethane	79-34-5	DUP	0	0	RPD	0	(Max-)	ND
1,1,2-Trichloroethane	79-00-5	DUP	0	0	RPD	0	(Max-)	ND
1,1-Dichloroethane	75-34-3	DUP	4.9556	4.8896	RPD	1.34	(Max-)	
1,1-Dichloroethene	75-35-4	DUP	21.2252	20.3893	RPD	4.02	(Max-)	
1,2,3-Trichlorobenzene	87-61-6	DUP	0	0	RPD	0	(Max-)	ND
1,2,3-Trichloropropane	96-18-4	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trichlorobenzene	120-82-1	DUP	0	0	RPD	0	(Max-)	ND
1,2,4-Trimethylbenzene	95-63-6	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromo-3-chloropropane	96-12-8	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromoethane	106-93-4	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichlorobenzene	95-50-1	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloroethane	107-06-2	DUP	0.3204	0	RPD	200	(Max-)	J
1,2-Dichloropropane	78-87-5	DUP	0	0	RPD	0	(Max-)	ND
1,3,5-Trimethylbenzene	108-67-8	DUP	0	0	RPD	0	(Max-)	ND
1,3-Dichlorobenzene	541-73-1	DUP	0	0	RPD	0	(Max-)	ND
1,4-Dichlorobenzene	106-46-7	DUP	0	0	RPD	0	(Max-)	ND
2-Butanone	78-93-3	DUP	0	0	RPD	0	(Max-)	ND
2-Hexanone	591-78-6	DUP	0	0	RPD	0	(Max-)	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	DUP	0	0	RPD	0	(Max-)	ND
Acetone	67-64-1	DUP	0	0	RPD	0	(Max-)	ND
Benzene	71-43-2	DUP	0	0	RPD	0	(Max-)	ND
Bromochloromethane	74-97-5	DUP	0	0	RPD	0	(Max-)	ND
Bromodichloromethane	75-27-4	DUP	0	0	RPD	0	(Max-)	ND
Bromoform	75-25-2	DUP	0	0	RPD	0	(Max-)	ND
Bromomethane	74-83-9	DUP	0	0	RPD	0	(Max-)	ND
Carbon Disulfide	75-15-0	DUP	0	0	RPD	0	(Max-)	ND
Carbon Tetrachloride	56-23-5	DUP	0	0	RPD	0	(Max-)	ND
Chlorobenzene	108-90-7	DUP	0	0	RPD	0	(Max-)	ND
Chlorodibromomethane	124-48-1	DUP	0	0	RPD	0	(Max-)	ND
Chloroethane	75-00-3	DUP	0	0	RPD	0	(Max-)	ND
Chloroform	67-66-3	DUP	0	0	RPD	0	(Max-)	ND
Chloromethane	74-87-3	DUP	0	0	RPD	0	(Max-)	ND
cis-1,2-Dichloroethene	156-59-2	DUP	0	0	RPD	0	(Max-)	ND
cis-1,3-Dichloropropene	10061-01-5	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
Cyclohexane	110-82-7	DUP	0	0	RPD	0	(Max-)	ND
Dichlorodifluoromethane	75-71-8	DUP	0	0	RPD	0	(Max-)	ND
Ethylbenzene	100-41-4	DUP	0	0	RPD	0	(Max-)	ND
Freon 113	76-13-1	DUP	0	0	RPD	0	(Max-)	ND
Isopropylbenzene	98-82-8	DUP	0	0	RPD	0	(Max-)	ND
Methyl acetate	79-20-9	DUP	0	0	RPD	0	(Max-)	ND
Methyl cyclohexane	108-87-2	DUP	0	0	RPD	0	(Max-)	ND
Methyl t-Butyl Ether	1634-04-4	DUP	1.0544	1.0380	RPD	1.57	(Max-)	
Methylene Chloride	75-09-2	DUP	0	0	RPD	0	(Max-)	ND
mp-Xylene	108383/106423	DUP	0	0	RPD	0	(Max-)	ND
o-Xylene	95-47-6	DUP	0	0	RPD	0	(Max-)	ND
Styrene	100-42-5	DUP	0	0	RPD	0	(Max-)	ND
Tetrachloroethene	127-18-4	DUP	0	0	RPD	0	(Max-)	ND
Toluene	108-88-3	DUP	0	0	RPD	0	(Max-)	ND
Total Xylenes	1330-20-7	DUP	0	0	RPD	0	(Max-)	ND
trans-1,2-Dichloroethene	156-60-5	DUP	0	0	RPD	0	(Max-)	ND
trans-1,3-Dichloropropene	10061-02-6	DUP	0	0	RPD	0	(Max-)	ND
Trichloroethene	79-01-6	DUP	0	0	RPD	0	(Max-)	ND
Trichlorofluoromethane	75-69-4	DUP	0	0	RPD	0	(Max-)	ND
Vinyl Chloride	75-01-4	DUP	0	0	RPD	0	(Max-)	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	DUP	31	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	DUP	27.3	30	91	79 - 114	
Dibromofluoromethane	1868-53-7	DUP	29.4	30	98.1	78 - 116	
Toluene-d8	2037-26-5	DUP	29.9	30	99.8	76 - 127	

Method Blank 3921656 (MB) Created on 12/20/2024 11:36 For QC Batch 1358219

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.2	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.9	30	99.6	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.8	30	96.1	78 - 116	
Toluene-d8	2037-26-5	BLK	30.6	30	102	76 - 127	

Lab Control Standard 3921657 (LCS) Created on 12/20/2024 11:36 For QC Batch 1358219

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.2		20	106	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.5		20	112	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.5		20	107	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.2		20	101	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.6		20	108	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.3		20	112	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.4		20	107	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.1		20	120	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22.8		20	114	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20		20	100	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	21.4		20	107	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	22		20	110	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.3		20	96.6	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.5		20	103	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	23		20	115	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	21.9		20	109	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.7		20	108	81 - 116		
2-Butanone	78-93-3	LCS	89.2		100	89.2	50 - 152		
2-Hexanone	591-78-6	LCS	94.8		100	94.8	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	96.9		100	96.9	71 - 146		
Acetone	67-64-1	LCS	94.6		100	94.6	40 - 151		
Benzene	71-43-2	LCS	20.1		20	101	80 - 124		
Bromochloromethane	74-97-5	LCS	21.3		20	106	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.8		20	109	79 - 126		
Bromoform	75-25-2	LCS	21.3		20	106	70 - 123		
Bromomethane	74-83-9	LCS	16.4		20	81.9	45 - 148		
Carbon Disulfide	75-15-0	LCS	22.2		20	111	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	18.9		20	94.3	62 - 132		
Chlorobenzene	108-90-7	LCS	20.5		20	103	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.1		20	95.4	77 - 122		
Chloroethane	75-00-3	LCS	19.7		20	98.3	51 - 142		
Chloroform	67-66-3	LCS	19.6		20	98.1	78 - 122		
Chloromethane	74-87-3	LCS	17.8		20	88.8	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.6		20	103	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.2		20	96.1	81 - 121		
Cyclohexane	110-82-7	LCS	21.1		20	106	66 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCS	16.8		20	84	17 - 166		
Ethylbenzene	100-41-4	LCS	21.2		20	106	80 - 124		
Freon 113	76-13-1	LCS	21.9		20	110	50 - 130		
Isopropylbenzene	98-82-8	LCS	25		20	125	73 - 129		
Methyl acetate	79-20-9	LCS	19.6		20	97.8	70 - 130		
Methyl cyclohexane	108-87-2	LCS	21.7		20	109	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.2		20	101	69 - 115		
Methylene Chloride	75-09-2	LCS	21.1		20	105	76 - 121		
mp-Xylene	108383/106423	LCS	41.9		40	105	79 - 125		
o-Xylene	95-47-6	LCS	20.8		20	104	79 - 124		
Styrene	100-42-5	LCS	19.9		20	99.5	79 - 123		
Tetrachloroethene	127-18-4	LCS	20.1		20	100	72 - 124		
Toluene	108-88-3	LCS	21.1		20	106	80 - 125		
Total Xylenes	1330-20-7	LCS	62.7		60	104	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.4		20	102	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.2		20	95.8	78 - 126		
Trichloroethene	79-01-6	LCS	19.3		20	96.5	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	19.3		20	96.7	38 - 123		
Vinyl Chloride	75-01-4	LCS	18.8		20	94	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	28.8	30	95.8	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.6	30	98.5	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	28.8	30	96	78 - 116	
Toluene-d8	2037-26-5	LCS	30.2	30	101	76 - 127	

Matrix Spike 3921681 (MS) 3392316003 For QC Batch 1358219

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	21.5	0	20	107	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	MS	24	0	20	120	74 - 135		
1,1,2-Trichloroethane	79-00-5	MS	22.2	0	20	111	82 - 126		
1,1-Dichloroethane	75-34-3	MS	20.1	0	20	101	78 - 124		
1,1-Dichloroethene	75-35-4	MS	20.6	0	20	103	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	MS	21.9	0	20	110	61 - 126		
1,2,3-Trichloropropane	96-18-4	MS	22.8	0	20	114	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	MS	23.7	0	20	118	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	MS	23.3	0	20	116	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	MS	21.6	0	20	108	59 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dibromoethane	106-93-4	MS	22.4	0	20	112	80 - 124		
1,2-Dichlorobenzene	95-50-1	MS	22.3	0	20	111	82 - 118		
1,2-Dichloroethane	107-06-2	MS	19.3	0	20	96.4	70 - 133		
1,2-Dichloropropane	78-87-5	MS	20.6	0	20	103	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	MS	23.6	0	20	118	76 - 125		
1,3-Dichlorobenzene	541-73-1	MS	21.8	0	20	109	81 - 118		
1,4-Dichlorobenzene	106-46-7	MS	21.8	0	20	109	81 - 116		
2-Butanone	78-93-3	MS	97.1	0	100	97.1	50 - 152		
2-Hexanone	591-78-6	MS	109	0	100	109	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	111	0	100	111	71 - 146		
Acetone	67-64-1	MS	87.4	0	100	87.4	40 - 151		
Benzene	71-43-2	MS	20.4	0	20	102	80 - 124		
Bromochloromethane	74-97-5	MS	21.2	0	20	106	73 - 117		
Bromodichloromethane	75-27-4	MS	21.7	0	20	108	79 - 126		
Bromoform	75-25-2	MS	21.8	0	20	109	70 - 123		
Bromomethane	74-83-9	MS	15.6	0	20	78	45 - 148		
Carbon Disulfide	75-15-0	MS	19.7	0	20	98.4	57 - 131		
Carbon Tetrachloride	56-23-5	MS	18.6	0	20	93.1	62 - 132		
Chlorobenzene	108-90-7	MS	20.9	0	20	104	85 - 117		
Chlorodibromomethane	124-48-1	MS	19.4	0	20	97.1	77 - 122		
Chloroethane	75-00-3	MS	19.9	0	20	99.7	51 - 142		
Chloroform	67-66-3	MS	19.8	0	20	98.9	78 - 122		
Chloromethane	74-87-3	MS	17.4	0	20	87.2	38 - 156		
cis-1,2-Dichloroethene	156-59-2	MS	20.6	0	20	103	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	MS	18.6	0	20	92.9	81 - 121		
Cyclohexane	110-82-7	MS	21.1	0	20	106	66 - 130		
Dichlorodifluoromethane	75-71-8	MS	17.6	0	20	88	17 - 166		
Ethylbenzene	100-41-4	MS	21.7	0	20	108	80 - 124		
Freon 113	76-13-1	MS	21	0	20	105	50 - 130		
Isopropylbenzene	98-82-8	MS	26	0	20	130*	73 - 129		
Methyl acetate	79-20-9	MS	18.3	0	20	91.4	70 - 130		
Methyl cyclohexane	108-87-2	MS	21.5	0	20	107	70 - 130		
Methyl t-Butyl Ether	1634-04-4	MS	20.2	0	20	101	69 - 115		
Methylene Chloride	75-09-2	MS	20.5	0	20	102	76 - 121		
mp-Xylene	108383/106423	MS	42.8	0	40	107	79 - 125		
o-Xylene	95-47-6	MS	21.5	0	20	107	79 - 124		
Styrene	100-42-5	MS	20	0	20	99.9	79 - 123		
Tetrachloroethene	127-18-4	MS	19.7	0	20	98.7	72 - 124		
Toluene	108-88-3	MS	21.5	0	20	107	80 - 125		
Total Xylenes	1330-20-7	MS	64.3	0	60	107	79 - 125		
trans-1,2-Dichloroethene	156-60-5	MS	20.1	0	20	100	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	MS	18.8	0	20	93.8	78 - 126		
Trichloroethene	79-01-6	MS	19.7	0	20	98.5	77 - 124		
Trichlorofluoromethane	75-69-4	MS	21.1	0	20	106	38 - 123		
Vinyl Chloride	75-01-4	MS	19.4	0	20	97	27 - 138		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	29.7	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	29.3	30	97.8	79 - 114	
Dibromofluoromethane	1868-53-7	MS	28.8	30	95.9	78 - 116	
Toluene-d8	2037-26-5	MS	29.4	30	98.1	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1355591	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Matrix Spike 3918175 (MS) 3392229002 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918176 (MSD) 3392229002 (non-Project Sample) For QC Batch 1355591

Matrix Spike 3918179 (MS) 3391543002 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike 3918182 (MS) 3391836014 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918183 (MSD) 3391836014 (non-Project Sample) For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	63.3	9	50	109	80 - 120		
Chloride	Cl	MSD	63.2	9	50	108	80 - 120	RPD 0.18 (Max-20)	
Nitrate-N	NO3	MS	44.6	40.30	5	NC	80 - 120		
Nitrate-N	NO3	MSD	44.2	40.30	5	NC	80 - 120	RPD 0.71 (Max-20)	
Sulfate	SO4	MS	637	601	50	NC	80 - 120		
Sulfate	SO4	MSD	633	601	50	NC	80 - 120	RPD 0.67 (Max-20)	

Matrix Spike 3918186 (MS) 3391888001 (non-Project Sample) For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	590	553	50	NC	80 - 120		

Method Blank 3918161 (MB) Created on 12/14/2024 06:33 For QC Batch 1355591

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918162 (LCS) Created on 12/14/2024 06:33 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	50.9		50	102	90 - 110		

Lab Control Standard 3918177 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.4		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3918178 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918180 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3918181 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918184 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.1		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.9		50	106	90 - 110		

Method Blank 3918185 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3918187 (LCS) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.5		50	105	90 - 110		

Method Blank 3918188 (MB) Created on 12/14/2024 08:44 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3918206 (MS) 3392316006 For QC Batch 1355591

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3918207 (MSD) 3392316006 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	36.1	7.50	25	114	80 - 120		
Chloride	Cl	MSD	36.3	7.50	25	115	80 - 120	RPD 0.53 (Max-20)	
Nitrate-N	NO3	MS	3.8	1.20	2.50	104	80 - 120		
Nitrate-N	NO3	MSD	3.8	1.20	2.50	104	80 - 120	RPD 0.24 (Max-20)	

Lab Control Standard 3918208 (LCS) Created on 12/14/2024 10:31 For QC Batch 1355591

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	53		50	106	90 - 110		

Method Blank 3918209 (MB) Created on 12/14/2024 10:31 For QC Batch 1355591

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1355602	Prep Method	N/A
Date	N/A	Analysis Method	SM2130B-2011
Tech.			

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Duplicate 3918203 (DUP) 3392202001 (non-Project Sample) For QC Batch 1355602

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	90	95	RPD 5.41	(Max-10)	

Method Blank 3918201 (MB) Created on 12/14/2024 09:38 For QC Batch 1355602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Method Blank 3918204 (MB) Created on 12/14/2024 09:38 For QC Batch 1355602

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1356405	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392316001 3392316002 3392316003 3392316004 3392316006

Matrix Spike 3919384 (MS) 3392434001 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919385 (MSD) 3392434001 (non-Project Sample) For QC Batch 1356405

Matrix Spike 3919388 (MS) 3392379001 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	84.9	75.90	10	NC	80 - 120		
Nitrate-N	NO3	MS	7	6	1	NC	80 - 120		
Sulfate	SO4	MS	34.3	23.40	10	109	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3919391 (MS) 3392379002 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919392 (MSD) 3392379002 (non-Project Sample) For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	13.6	2.90	10	107	80 - 120		
Chloride	Cl	MSD	13.6	2.90	10	108	80 - 120	RPD 0.18 (Max-20)	
Nitrate-N	NO3	MS	7.4	6.50	1	NC	80 - 120		
Nitrate-N	NO3	MSD	7.4	6.50	1	NC	80 - 120	RPD 0.04 (Max-20)	
Sulfate	SO4	MS	42.4	32.20	10	102	80 - 120		
Sulfate	SO4	MSD	42.5	32.20	10	104	80 - 120	RPD 0.38 (Max-20)	

Matrix Spike 3919395 (MS) 3392396001 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	16.1	5.10	10	110	80 - 120		
Nitrate-N	NO3	MS	1.4	0.44	1	99.2	80 - 120		

Matrix Spike 3919398 (MS) 3392478003 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919399 (MSD) 3392478003 (non-Project Sample) For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	2.8	1.80	1	108	80 - 120		
Nitrate-N	NO3	MSD	2.8	1.80	1	106	80 - 120	RPD 0.53 (Max-20)	

Matrix Spike 3919402 (MS) 3392497002 (non-Project Sample) For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	196	189	10	NC	80 - 120		
Nitrate-N	NO3	MS	5.2	4.10	1	NC	80 - 120		

Method Blank 3919094 (MB) Created on 12/17/2024 06:37 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919095 (LCS) Created on 12/17/2024 06:37 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.7		50	101	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	101	90 - 110		
Sulfate	SO4	LCS	50.3		50	101	90 - 110		

Lab Control Standard 3919386 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.2		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.4		50	103	90 - 110		

Method Blank 3919387 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919389 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.7		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3919390 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919393 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.1		50	104	90 - 110		

Method Blank 3919394 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919396 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.4		50	105	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3919397 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919400 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.5		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	105	90 - 110		
Sulfate	SO4	LCS	53.1		50	106	90 - 110		

Method Blank 3919401 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3919403 (LCS) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.6		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		
Sulfate	SO4	LCS	52.8		50	106	90 - 110		

Method Blank 3919404 (MB) Created on 12/17/2024 10:23 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3919522 (MS) 3392316003 For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3919523 (MSD) 3392316003 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	170	50.50	100	120	80 - 120		
Chloride	Cl	MSD	169	50.50	100	118	80 - 120	RPD 0.82 (Max-20)	
Nitrate-N	NO3	MS	39.2	27.80	10	114	80 - 120		
Nitrate-N	NO3	MSD	38.5	27.80	10	107	80 - 120	RPD 1.86 (Max-20)	
Sulfate	SO4	MS	1260	1160	100	NC	80 - 120		
Sulfate	SO4	MSD	1230	1160	100	NC	80 - 120	RPD 2 (Max-20)	

Lab Control Standard 3919524 (LCS) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.9		50	106	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	106	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

Method Blank 3919525 (MB) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3919526 (MS) 3392316006 For QC Batch 1356405

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	66.2	7.50	50	117	80 - 120		
Nitrate-N	NO3	MS	6.7	1.50	5	104	80 - 120		
Sulfate	SO4	MS	925	894	50	NC	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3919527 (LCS) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.6		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	105	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

Method Blank 3919528 (MB) Created on 12/17/2024 13:38 For QC Batch 1356405

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1356845	Prep Method	N/A
Date Tech.	N/A	Analysis Method	SM2540C-15

Associated Samples

3392316001 3392316002 3392316003 3392316004 3392316005

Duplicate 3920144 (DUP) 3392209001 (non-Project Sample) For QC Batch 1356845

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	412	408	RPD 0.98	(Max-5)	

Duplicate 3920145 (DUP) 3392209002 (non-Project Sample) For QC Batch 1356845

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	508	502	RPD 1.19	(Max-5)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3919927 (MB) Created on 12/18/2024 09:18 For QC Batch 1356845

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3919928 (LCS) Created on 12/18/2024 09:18 For QC Batch 1356845

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	493		500	98.6	90 - 110		

QC Batch

QC Batch	1356847	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3392316006

Duplicate 3920146 (DUP) 3392379001 (non-Project Sample) For QC Batch 1356847

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	512	508	RPD	0.78 (Max-5)	

Duplicate 3920147 (DUP) 3392379004 (non-Project Sample) For QC Batch 1356847

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	526	532	RPD	1.13 (Max-5)	

Method Blank 3919933 (MB) Created on 12/18/2024 09:20 For QC Batch 1356847

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3919934 (LCS) Created on 12/18/2024 09:20 For QC Batch 1356847

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	497		500	99.4	90 - 110		

QC Batch

QC Batch	1356895	Prep Method	N/A
Date	N/A	Analysis Method	S4500HB-11
Tech.			

Associated Samples

3392316001	3392316002	3392316003	3392316004
3392316005	3392316006		

Duplicate 3920063 (DUP) 3391836012 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920067 (DUP) 3391890011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920071 (DUP) 3391890009 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP					

Duplicate 3920075 (DUP) 3391971001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.4170	8.4090	RPD	0.10 (Max-10)	

Duplicate 3920079 (DUP) 3392026001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2550	8.2470	RPD	0.10 (Max-10)	

Duplicate 3920083 (DUP) 3392026002 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2130	8.2280	RPD	0.18 (Max-10)	

Duplicate 3920087 (DUP) 3392161001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP					

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3920091 (DUP) 3392161011 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.3470	8.3460	RPD	0.01 (Max-10)	

Duplicate 3920099 (DUP) 3392379005 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.56	8.5150	RPD	0.53 (Max-10)	

Duplicate 3920103 (DUP) 3392402001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920107 (DUP) 3392412001 (non-Project Sample) For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3920095 (DUP) 3392316001 For QC Batch 1356895

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2050	8.2550	RPD	0.61 (Max-10)	

QC Batch

QC Batch	1359622	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3392316001 3392316002 3392316003 3392316004
3392316005 3392316006

Duplicate 3922306 (DUP) 3392161007 (non-Project Sample) For QC Batch 1359622

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Acidity, Total	ACID-T	DUP	0	0	RPD	0 (Max-20)	ND

Method Blank 3922305 (MB) Created on 12/23/2024 08:53 For QC Batch 1359622

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3922308 (MB) Created on 12/23/2024 08:53 For QC Batch 1359622

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3922309 (DUP) 3392316004 For QC Batch 1359622

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Acidity, Total	ACID-T	DUP	40	49	RPD	20.20* (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3922311 (MB) Created on 12/23/2024 08:53 For QC Batch 1359622

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1359756	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3392316001 3392316002 3392316003 3392316004
3392316005 3392316006

Duplicate 3922691 (DUP) 3392161001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	210.64	203.12	RPD	3.63	(Max-20)	

Duplicate 3922695 (DUP) 3392161011 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	505.20	489.20	RPD	3.22	(Max-20)	

Duplicate 3922700 (DUP) 3392379005 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	274.52	270.04	RPD	1.65	(Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922701 (DUP) 3392402001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	122.64	120.24	RPD	1.98	(Max-20)	

Duplicate 3922705 (DUP) 3392589001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	68.48	67.16	RPD	1.95	(Max-20)	

Duplicate 3922713 (DUP) 3392641005 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	30.68	30.64	RPD	0.13	(Max-20)	

Duplicate 3922717 (DUP) 3392641015 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	29.40	29.20	RPD	0.68	(Max-20)	

Duplicate 3922721 (DUP) 3392641025 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	95.92	96.84	RPD	0.95	(Max-20)	

Duplicate 3922729 (DUP) 3392812006 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	210.28	210.40	RPD	0.06	(Max-20)	

Method Blank 3922687 (MB) Created on 12/23/2024 16:10 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922693 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3922696 (DUP) 3392316001 For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	314.04	302.40	RPD	3.78	(Max-20)	

Method Blank 3922698 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3922703 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922707 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922711 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922715 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922719 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922723 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922727 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922731 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1360529	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3392316001 3392316002 3392316003 3392316004
3392316005 3392316006

Duplicate 3922897 (DUP) 3392161010 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	1296	1300	RPD	0.31 (Max-10)	

Duplicate 3922899 (DUP) 3393195003 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	2003	2009	RPD	0.30 (Max-10)	

Duplicate 3922901 (DUP) 3392396004 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	1227	1222	RPD	0.41 (Max-10)	

Duplicate 3922903 (DUP) 3392847010 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	153.10	151.10	RPD	1.31 (Max-10)	

Duplicate 3922905 (DUP) 3392633001 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	232	232	RPD	0 (Max-10)	

Duplicate 3922907 (DUP) 3393095003 (non-Project Sample) For QC Batch 1360529

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	1099	1107	RPD	0.73 (Max-10)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392316001	MW-35S	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1358389
		N/A	N/A	N/A		SW846 8260D	1358219
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355602
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356845
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355591
		N/A	N/A	N/A		SW846 9056A	1356405
3392316002	MW-35D	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1358389
		N/A	N/A	N/A		SW846 8260D	1358219
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355602
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356845
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355591
		N/A	N/A	N/A		SW846 9056A	1356405
3392316003	MW-6S	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1363881	01/03/2025 05:05	ANN	SW846 6010C	1366577
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1358389
		N/A	N/A	N/A		SW846 8260D	1358219
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355602
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356845
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355591
		N/A	N/A	N/A		SW846 9056A	1356405
3392316004	MW-6D	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1358389
		N/A	N/A	N/A		SW846 8260D	1358219
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355602
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356845
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355591
		N/A	N/A	N/A		SW846 9056A	1356405

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392316005	MW-30	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1358389
		N/A	N/A	N/A		SW846 8260D	1358219
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355602
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356845
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355591
3392316006	MW-9S	SW846 3015A	1356008	12/16/2024 10:12	ANN	SW846 6010C	1366578
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1356801	12/18/2024 07:29	AJN	SW846 7470A	1356883
		SW846 7470A	1356803	12/18/2024 07:29	AJN	SW846 7470A	1356884
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1358389
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1360491
		SW846 3510C	1357590	12/19/2024 16:40	BMP	SW846 8270E	1362502
		N/A	N/A	N/A		SW846 8260D	1358219
		N/A	N/A	N/A		S4500HB-11	1356895
		N/A	N/A	N/A		SM2130B-2011	1355602
		N/A	N/A	N/A		SM2310B-2011	1359622
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1356847
		N/A	N/A	N/A		SW846 9050A	1360529
		N/A	N/A	N/A		SW846 9056A	1355591
		N/A	N/A	N/A		SW846 9056A	1356405
3392316007	TB-44	N/A	N/A	N/A		SW846 8260D	1358219

ALS

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3392316
Logged By: MJE
PM: EXP
ALS Quote #:
1 of 1

Client Name: Michael Baker Intl.
Address: 100 Airside Drive
Moon Twp., PA

Contact: C. Kupfer
Phone#: 412-269-6300
Project Name/#: Erie Coke Works
Bill To:
Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

	Container Type	G	G	P	P						
	Container Size	3 40 ml	1 500 ml	4 125 ml	2 1L						
	Preservative	HCl	~~UNP~~	HNO_3	~~UNP~~						
			MJE 12/14/24								

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.	
	Enter Number of Containers Per Sample or Field Results Below.						3	x1	2	2	2	
1	MW-35S	12/13/24	945		G	GW	x	x	x	x	x	MJE 12/14/24
2	MW-35D		1100				x	x	x	x	x	
3	MW-6S		930				x	x	x	x	x	
4	MW-6D		1050				x	x	x	x	x	
5	MW-30		930				x	x	x	x	x	
6	MW-9S		1055				x	x	x	x	x	
7	TB-44	-	-		-		x					
8												
9												
10												

Circle Sample Collector: ALS Tech / Client
Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/13/24	1300	1	Dave Gaviglia / MBI	2	Fedex
12/14/24	841	3	Fedex	4	
		5		6	
		7		8	
		9		10	

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Temp Taken By: Therm ID: WO Temp (°C)
Receipt Info completed by: Y N NA
Cooler Custod
Sample Custo
Received on Ic
Coolers & San
Correct Contai
Sample Label/C
Adequate Samp
VOA only: Trip I
NJ ≤ 4 days?
Courier/Tracking #

Temp By: MJE | WO Temp (°C): 1° | Therm ID: 569

Receipt Info Completed By:	MJE
Cooler Custody Seal Intact	Y N (NA)
Sample Custody Seal Intact	Y N (NA)
Received on Ice	(Y) N NA
Cooler & Samples Intact	(Y) N
Correct Containers Provided	(Y) N
Sample Label/COC Agree	(Y) N
Adequate Sample Volumes	(Y) N
CR6 Samples Filtered	Y N (NA)
OP Samples Filtered	Y N (NA)
VOA Trip Blank	(Y) N NA
NJ≤ 4 Days?	
Rad Screen (uCi)	
Courier/Tracking #:	283227551101
SDWA Compliance	Y (N)
PWSID	
WV Containers 0-6°C	Y N (NA)

? NO YES
:S, list below:
contact:
ct:

Sample(s) for Ra
Reportable SDW
SDWA State of C
PWSID #
PWS Contact: *No Sampler-MJE 12/14/24

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks
MW-9S is considered "hot"

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type:

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

Rev 07.06.2023

283227551101

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3392812
Report ID 385520 on 2/4/2025 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 18, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3392812001	MW-9D	Ground Water	12/17/2024 09:00	12/18/2024 09:42	CBC	Collected By Client
3392812002	MW-27S	Ground Water	12/17/2024 09:20	12/18/2024 09:42	CBC	Collected By Client
3392812003	MW-27D	Ground Water	12/17/2024 11:10	12/18/2024 09:42	CBC	Collected By Client
3392812004	MW-36S	Ground Water	12/17/2024 09:20	12/18/2024 09:42	CBC	Collected By Client
3392812005	MW-36D	Ground Water	12/17/2024 11:10	12/18/2024 09:42	CBC	Collected By Client
3392812006	MW-42	Ground Water	12/17/2024 15:00	12/18/2024 09:42	CBC	Collected By Client
3392812007	TB-45	Ground Water	12/17/2024 00:00	12/18/2024 09:42	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

P1 This report was revised to include Selenium results for ALS#3392812001. EXP 2/4/25

Sample Notations

Lab ID	Sample ID		
3392812006	MW-42	**S1**	This sample was analyzed at a dilution in the 8260 volatiles analysis due to matrix. Reporting limits were adjusted accordingly.

Result Notations

Notation Ref.	
E	Result reported exceeds instrument calibration
1	Chloroethane was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift/difference was reported at 24.51%. Acceptable limits are +/-20%.
2	The QC sample type LCS for method SW846 8270E was outside the control limits for the analyte N-Nitroso-di-n-propylamine. The % Recovery was reported as 0 and the control limits were 46 to 133.
3	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
4	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
5	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
6	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2,3,4,6-Tetrachlorophenol. The % Recovery was reported as 131 and the control limits were 80 to 120.
7	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2,4-Dinitrophenol. The % Recovery was reported as 71 and the control limits were 80 to 120.
8	The QC sample type LCS for method SW846 8260D was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 135 and the control limits were 70 to 130.
9	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Chloride. The % Recovery was reported as 122 and the control limits were 80 to 120.
10	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 126 and the control limits were 80 to 120.
11	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 122 and the control limits were 80 to 120.

Detected Results Summary

Client Sample ID	MW-9D	Collected	12/17/2024 09:00
Lab Sample ID	3392812001	Lab Receipt	12/18/2024 09:42

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Barium, Dissolved	0.026	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.025	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	292	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	283	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0023J	mg/L	0.0056	0.0020	SW846 6010C	#
Cobalt, Dissolved	0.0027J	mg/L	0.0056	0.0020	SW846 6010C	#
Cobalt, Total	0.0037J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0048J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0081J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.59	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.72	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	106	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	104	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.16	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.15	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	6.3	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	6.8	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	221	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	223	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	22.1	ug/L	3.0	0.50	SW846 8270E	#
2-Methylnaphthalene	49.5	ug/L	1.5	0.25	SW846 8270E	#
4-Nitroaniline	4.7	ug/L	3.0	0.25	SW846 8270E	#
Acenaphthene	18.0	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	54.3	ug/L	1.5	0.25	SW846 8270E	#
Anthracene	9.7	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	2.3	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.99J	ug/L	1.5	0.26	SW846 8270E	#
Benzo(b)fluoranthene	1.1J	ug/L	1.5	0.30	SW846 8270E	#
Benzo(g,h,i)perylene	0.72J	ug/L	1.5	0.36	SW846 8270E	#
Benzo(k)fluoranthene	0.72J	ug/L	1.5	0.34	SW846 8270E	#
Biphenyl	13.2	ug/L	3.0	0.25	SW846 8270E	#
bis(2-Ethylhexyl)phthalate	0.63J	ug/L	3.0	0.47	SW846 8270E	#
Butylbenzylphthalate	0.55J	ug/L	3.0	0.31	SW846 8270E	#
Carbazole	154	ug/L	60.0	5.0	SW846 8270E	#
Chrysene	2.1	ug/L	1.5	0.26	SW846 8270E	#
Dibenzo(a,h)anthracene	0.59J	ug/L	1.5	0.32	SW846 8270E	#
Dibenzofuran	77.3	ug/L	3.0	0.25	SW846 8270E	#
Di-n-Butylphthalate	0.45J	ug/L	3.0	0.37	SW846 8270E	#
Di-n-Octylphthalate	1.6J	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	21.3	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	86.9	ug/L	1.5	0.25	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	0.72J	ug/L	1.5	0.31	SW846 8270E	#
mp-Cresol	30.1	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	1040	ug/L	30.0	13.0	SW846 8270E	#

Detected Results Summary

Sample - MW-9D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
SEMIVOLATILES (cont.)						
o-Cresol	26.1	ug/L	3.0	0.50	SW846 8270E	#
Phenanthrene	67.6	ug/L	1.5	0.25	SW846 8270E	#
Phenol	12.3	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	12.8	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	37.8	ug/L	20.0	5.0	SW846 8260D	#
1,3,5-Trimethylbenzene	11.8J	ug/L	20.0	4.0	SW846 8260D	#
Benzene	491	ug/L	20.0	4.6	SW846 8260D	#
Bromomethane	27.8	ug/L	20.0	7.8	SW846 8260D	#
Carbon Disulfide	5.8J	ug/L	20.0	4.6	SW846 8260D	#
Ethylbenzene	16.2J	ug/L	20.0	6.8	SW846 8260D	#
mp-Xylene	60.1	ug/L	40.0	10.4	SW846 8260D	#
o-Xylene	35.9	ug/L	20.0	6.6	SW846 8260D	#
Styrene	11.0J	ug/L	20.0	4.8	SW846 8260D	#
Toluene	60.2	ug/L	20.0	4.6	SW846 8260D	#
Total Xylenes	96.0	ug/L	60.0	13.2	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	45	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	409	mg/L	5	5	SM2320B-2011	#
Chloride	400	mg/L	5.0	2.2	SW846 9056A	#
pH	8.18	pH_Units			S4500HB-11	#
Specific Conductance	3490	umhos/cm	50	1	SW846 9050A	#
Sulfate	971	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2070	mg/L	25	25	SM2540C-15	#
Turbidity	28	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-27S	Collected	12/17/2024 09:20
Lab Sample ID	3392812002	Lab Receipt	12/18/2024 09:42

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0064J	mg/L	0.018	0.0060	SW846 6010C	#
Barium, Dissolved	0.021J	mg/L	0.022	0.0072	SW846 6010C	#
Barium, Total	0.022	mg/L	0.022	0.0072	SW846 6010C	#
Calcium, Dissolved	612	mg/L	0.22	0.072	SW846 6010C	#
Calcium, Total	606	mg/L	0.22	0.072	SW846 6010C	#
Chromium, Total	0.0051J	mg/L	0.011	0.0040	SW846 6010C	#
Copper, Total	0.0096J	mg/L	0.022	0.0072	SW846 6010C	#
Iron, Dissolved	0.71	mg/L	0.13	0.044	SW846 6010C	#
Iron, Total	0.86	mg/L	0.13	0.044	SW846 6010C	#
Magnesium, Dissolved	63.2	mg/L	0.22	0.072	SW846 6010C	#
Magnesium, Total	67.2	mg/L	0.22	0.072	SW846 6010C	#
Manganese, Dissolved	0.74	mg/L	0.011	0.0040	SW846 6010C	#
Manganese, Total	0.82	mg/L	0.011	0.0040	SW846 6010C	#
Potassium, Dissolved	2.9	mg/L	1.1	0.36	SW846 6010C	#
Potassium, Total	3.8	mg/L	1.1	0.36	SW846 6010C	#
Selenium, Total	0.034J	mg/L	0.044	0.015	SW846 6010C	#
Sodium, Dissolved	121	mg/L	1.1	0.36	SW846 6010C	#
Sodium, Total	133	mg/L	1.1	0.36	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	475	ug/L	33.8	5.6	SW846 8270E	#
2-Methylnaphthalene	69.4	ug/L	1.7	0.28	SW846 8270E	#
Acenaphthene	4.3	ug/L	1.7	0.28	SW846 8270E	#
Acenaphthylene	50.1	ug/L	1.7	0.28	SW846 8270E	#
Acetophenone	11.2	ug/L	3.4	1.0	SW846 8270E	#
Anthracene	12.1	ug/L	1.7	0.28	SW846 8270E	#
Benzo(a)anthracene	1.5J	ug/L	1.7	0.32	SW846 8270E	#
Benzo(a)pyrene	0.87J	ug/L	1.7	0.29	SW846 8270E	#
Benzo(b)fluoranthene	0.90J	ug/L	1.7	0.34	SW846 8270E	#
Benzo(k)fluoranthene	0.78J	ug/L	1.7	0.38	SW846 8270E	#
Biphenyl	6.1	ug/L	3.4	0.28	SW846 8270E	#
Carbazole	120	ug/L	3.4	0.28	SW846 8270E	#
Chrysene	1.4J	ug/L	1.7	0.29	SW846 8270E	#
Dibenzofuran	25.6	ug/L	3.4	0.28	SW846 8270E	#
Fluoranthene	12.1	ug/L	1.7	0.28	SW846 8270E	#
Fluorene	35.8	ug/L	1.7	0.28	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	0.48J	ug/L	1.7	0.35	SW846 8270E	#
mp-Cresol	193	ug/L	3.4	0.56	SW846 8270E	#
Naphthalene	1600	ug/L	16.9	7.3	SW846 8270E	#
o-Cresol	325	ug/L	33.8	5.6	SW846 8270E	#
Phenanthrene	31.2	ug/L	1.7	0.28	SW846 8270E	#
Phenol	186	ug/L	9.0	0.56	SW846 8270E	#
Pyrene	7.8	ug/L	1.7	0.28	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	41.1J	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	21.2J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	1640	ug/L	50.0	11.5	SW846 8260D	#

Detected Results Summary

Sample - MW-27S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Bromomethane	19.8J	ug/L	50.0	19.5	SW846 8260D	#
Ethylbenzene	17.3J	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	162	ug/L	100	26.0	SW846 8260D	#
o-Xylene	74.6	ug/L	50.0	16.5	SW846 8260D	#
Styrene	23.8J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	221	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	236	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	39	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	377	mg/L	5	5	SM2320B-2011	#
Chloride	36.0	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	4.7	mg/L	2.5	0.80	SW846 9056A	#
pH	8.14	pH_Units			S4500HB-11	#
Specific Conductance	3210	umhos/cm	50	1	SW846 9050A	#
Sulfate	1540	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2660	mg/L	25	25	SM2540C-15	#
Turbidity	12	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-27D	Collected	12/17/2024 11:10
Lab Sample ID	3392812003	Lab Receipt	12/18/2024 09:42

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Antimony, Total	0.0083J	mg/L	0.022	0.0073	SW846 6010C	#
Arsenic, Dissolved	0.028	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0097	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.062	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.047	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	299	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	282	mg/L	0.11	0.036	SW846 6010C	#
Copper, Total	0.0038J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	1.6	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	1.5	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	46.5	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	39.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.55	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.55	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	2.5	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.021J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	66.2	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	68.6	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	543	ug/L	30.0	5.0	SW846 8270E	#
2-Methylnaphthalene	482	ug/L	15.0	2.5	SW846 8270E	#
Acenaphthene	14.8	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	200	ug/L	15.0	2.5	SW846 8270E	#
Anthracene	23.6	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	0.83J	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.26J	ug/L	1.5	0.26	SW846 8270E	#
Biphenyl	40.1	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	456	ug/L	30.0	2.5	SW846 8270E	#
Chrysene	0.71J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	97.4	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	10.8	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	103	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	364	ug/L	30.0	5.0	SW846 8270E	#
Naphthalene	12500	ug/L	1500	650	SW846 8270E	#
o-Cresol	682	ug/L	30.0	5.0	SW846 8270E	#
Phenanthrene	87.3	ug/L	1.5	0.25	SW846 8270E	#
Phenol	196	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	6.7	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	227	ug/L	100	25.0	SW846 8260D	#
1,3,5-Trimethylbenzene	112	ug/L	100	20.0	SW846 8260D	#
Benzene	5090	ug/L	100	23.0	SW846 8260D	#
Ethylbenzene	53.5J	ug/L	100	34.0	SW846 8260D	#
mp-Xylene	358	ug/L	200	52.0	SW846 8260D	#
o-Xylene	245	ug/L	100	33.0	SW846 8260D	#

Detected Results Summary

Sample - MW-27D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Styrene	56.5J	ug/L	100	24.0	SW846 8260D	#
Toluene	496	ug/L	100	23.0	SW846 8260D	#
Total Xylenes	603	ug/L	300	66.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	24	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	392	mg/L	5	5	SM2320B-2011	#
Chloride	18.3	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	2.0J	mg/L	2.5	0.80	SW846 9056A	#
pH	8.24	pH_Units			S4500HB-11	#
Specific Conductance	2290	umhos/cm	50	1	SW846 9050A	#
Sulfate	647	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1360	mg/L	25	25	SM2540C-15	#
Turbidity	9.3	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-36S	Collected	12/17/2024 09:20
Lab Sample ID	3392812004	Lab Receipt	12/18/2024 09:42

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0073J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.024	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.024	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	566	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	563	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0024J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0028J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0070J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0089J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	5.9	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	6.2	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	81.1	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	80.9	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	1.6	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	1.6	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	8.5	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	8.6	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.016J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	30.6	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	31.1	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	311	ug/L	30.0	5.0	SW846 8270E	#
2-Methylnaphthalene	791	ug/L	15.0	2.5	SW846 8270E	#
Acenaphthene	15.2	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	417	ug/L	15.0	2.5	SW846 8270E	#
Anthracene	23.0	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	2.2	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.94J	ug/L	1.5	0.26	SW846 8270E	#
Benzo(b)fluoranthene	0.91J	ug/L	1.5	0.30	SW846 8270E	#
Benzo(g,h,i)perylene	0.41J	ug/L	1.5	0.36	SW846 8270E	#
Benzo(k)fluoranthene	0.94J	ug/L	1.5	0.34	SW846 8270E	#
Biphenyl	64.8	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	572	ug/L	30.0	2.5	SW846 8270E	#
Chrysene	1.8	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	138	ug/L	30.0	2.5	SW846 8270E	#
Fluoranthene	17.2	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	136	ug/L	15.0	2.5	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	0.48J	ug/L	1.5	0.31	SW846 8270E	#
mp-Cresol	292	ug/L	30.0	5.0	SW846 8270E	#
Naphthalene	8780	ug/L	15.0	6.5	SW846 8270E	#
o-Cresol	839	ug/L	30.0	5.0	SW846 8270E	#
Phenanthrene	116	ug/L	1.5	0.25	SW846 8270E	#
Phenol	62.5	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	9.3	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	203J	ug/L	500	125	SW846 8260D	#

Detected Results Summary

Sample - MW-36S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
1,3,5-Trimethylbenzene	135J	ug/L	500	100	SW846 8260D	#
Benzene	7910	ug/L	500	115	SW846 8260D	#
Ethylbenzene	219J	ug/L	500	170	SW846 8260D	#
mp-Xylene	1950	ug/L	1000	260	SW846 8260D	#
o-Xylene	551	ug/L	500	165	SW846 8260D	#
Styrene	209J	ug/L	500	120	SW846 8260D	#
Toluene	1430	ug/L	500	115	SW846 8260D	#
Total Xylenes	2500	ug/L	1500	330	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	50	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	368	mg/L	5	5	SM2320B-2011	#
Chloride	22.0	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	28.7	mg/L	2.5	0.80	SW846 9056A	#
pH	8.13	pH_Units			S4500HB-11	#
Specific Conductance	3450	umhos/cm	50	1	SW846 9050A	#
Sulfate	1400	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2430	mg/L	25	25	SM2540C-15	#
Turbidity	50	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-36D	Collected	12/17/2024 11:10
Lab Sample ID	3392812005	Lab Receipt	12/18/2024 09:42

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0073J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.015	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.015	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	529	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	520	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.0027J	mg/L	0.0056	0.0020	SW846 6010C	#
Chromium, Total	0.0026J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Dissolved	0.0064J	mg/L	0.011	0.0036	SW846 6010C	#
Copper, Total	0.0086J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.80	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.81	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	91.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	91.2	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.57	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.55	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.1	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.1	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.018J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	38.4	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	38.9	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	183	ug/L	30.0	5.0	SW846 8270E	#
2-Methylnaphthalene	828	ug/L	15.0	2.5	SW846 8270E	#
Acenaphthene	12.6	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	409	ug/L	15.0	2.5	SW846 8270E	#
Acetophenone	12.2	ug/L	3.0	0.90	SW846 8270E	#
Anthracene	18.2	ug/L	1.5	0.25	SW846 8270E	#
Benzo(a)anthracene	1.2J	ug/L	1.5	0.28	SW846 8270E	#
Benzo(a)pyrene	0.40J	ug/L	1.5	0.26	SW846 8270E	#
Benzo(b)fluoranthene	0.45J	ug/L	1.5	0.30	SW846 8270E	#
Benzo(k)fluoranthene	0.37J	ug/L	1.5	0.34	SW846 8270E	#
Biphenyl	61.4	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	513	ug/L	30.0	2.5	SW846 8270E	#
Chrysene	0.86J	ug/L	1.5	0.26	SW846 8270E	#
Dibenzofuran	138	ug/L	30.0	2.5	SW846 8270E	#
Fluoranthene	12.7	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	143	ug/L	15.0	2.5	SW846 8270E	#
mp-Cresol	72.1	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	11200	ug/L	1500	650	SW846 8270E	#
o-Cresol	308	ug/L	30.0	5.0	SW846 8270E	#
Phenanthrene	99.7	ug/L	1.5	0.25	SW846 8270E	#
Phenol	23.6	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	7.3	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	179J	ug/L	500	125	SW846 8260D	#
1,3,5-Trimethylbenzene	123J	ug/L	500	100	SW846 8260D	#

Detected Results Summary

Sample - MW-36D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Benzene	6260	ug/L	500	115	SW846 8260D	#
mp-Xylene	1690	ug/L	1000	260	SW846 8260D	#
o-Xylene	504	ug/L	500	165	SW846 8260D	#
Styrene	188J	ug/L	500	120	SW846 8260D	#
Toluene	2260	ug/L	500	115	SW846 8260D	#
Total Xylenes	2200	ug/L	1500	330	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	51	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	358	mg/L	5	5	SM2320B-2011	#
Chloride	27.5	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	30.7	mg/L	2.5	0.80	SW846 9056A	#
pH	8.17	pH_Units			S4500HB-11	#
Specific Conductance	3500	umhos/cm	50	1	SW846 9050A	#
Sulfate	1290	mg/L	20.0	14.0	SW846 9056A	#
Total Dissolved Solids	2320	mg/L	25	25	SM2540C-15	#
Turbidity	3.4	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-42	Collected	12/17/2024 15:00
Lab Sample ID	3392812006	Lab Receipt	12/18/2024 09:42

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.78	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.0050J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.012	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.017	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	45.9	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	52.3	mg/L	0.11	0.036	SW846 6010C	#
Iron, Total	1.0	mg/L	0.067	0.022	SW846 6010C	#
Lead, Total	0.0027J	mg/L	0.0067	0.0022	SW846 6010C	#
Magnesium, Dissolved	5.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	6.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.0033J	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.029	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.9	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	4.1	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.0080J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	43.5	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	45.2	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2-Methylnaphthalene	0.58J	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	0.32J	ug/L	1.5	0.25	SW846 8270E	#
Carbazole	0.48J	ug/L	3.0	0.25	SW846 8270E	#
Naphthalene	7.7	ug/L	1.5	0.65	SW846 8270E	#
WET CHEMISTRY						
Acidity, Total	5	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	210	mg/L	5	5	SM2320B-2011	#
Chloride	1.4J	mg/L	2.0	0.88	SW846 9056A	#
Nitrate-N	0.64J	mg/L	1.0	0.32	SW846 9056A	#
pH	8.46	pH_Units			S4500HB-11	#
Specific Conductance	416	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	14.6	mg/L	2.0	1.4	SW846 9056A	#
Total Dissolved Solids	280	mg/L	25	25	SM2540C-15	#
Turbidity	28	NTU	0.30	0.30	SM2130B-2011	#

Results

Client Sample ID	MW-9D	Collected	12/17/2024 09:00
Lab Sample ID	3392812001	Lab Receipt	12/18/2024 09:42

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:14	MSY	E1
Barium, Dissolved	0.026	P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Barium, Total	0.025	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Calcium, Dissolved	292	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Calcium, Total	283	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Chromium, Dissolved	0.0021J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Chromium, Total	0.0023J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Cobalt, Dissolved	0.0027J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:27	MSY	G1
Cobalt, Total	0.0037J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Copper, Dissolved	0.0048J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Copper, Total	0.0081J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Iron, Dissolved	0.59	P1	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Iron, Total	0.72	P1	mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Magnesium, Dissolved	106	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Magnesium, Total	104	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Manganese, Dissolved	0.16	P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Manganese, Total	0.15	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:34	AJN	G
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:17	AJN	E
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Potassium, Dissolved	6.3	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Potassium, Total	6.8	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Selenium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 10:14	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Sodium, Dissolved	221	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Sodium, Total	223	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:01	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:31	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:01	MSY	E1

Results

Client Sample ID	MW-9D	Collected	12/17/2024 09:00
Lab Sample ID	3392812001	Lab Receipt	12/18/2024 09:42

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,4-Dimethylphenol	22.1	P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	01/02/2025 19:59	CGS	D
2-Methylnaphthalene	49.5	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	01/02/2025 19:59	CGS	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
3,3-Dichlorobenzidine	ND	ND,P1	ug/L	16.0	8.5	SW846 8270E	1	01/02/2025 19:59	CGS	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	01/02/2025 19:59	CGS	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
4-Nitroaniline	4.7	P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	01/02/2025 19:59	CGS	D
Acenaphthene	18.0	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Acenaphthylene	54.3	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	01/02/2025 19:59	CGS	D
Anthracene	9.7	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Benzo(a)anthracene	2.3	P1	ug/L	1.5	0.28	SW846 8270E	1	01/02/2025 19:59	CGS	D
Benzo(a)pyrene	0.99J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	01/02/2025 19:59	CGS	D
Benzo(b)fluoranthene	1.1J	J,P1	ug/L	1.5	0.30	SW846 8270E	1	01/02/2025 19:59	CGS	D
Benzo(g,h,i)perylene	0.72J	J,P1	ug/L	1.5	0.36	SW846 8270E	1	01/02/2025 19:59	CGS	D
Benzo(k)fluoranthene	0.72J	J,P1	ug/L	1.5	0.34	SW846 8270E	1	01/02/2025 19:59	CGS	D
Biphenyl	13.2	P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
bis(2-Ethylhexyl)phthalate	0.63J	J,P1	ug/L	3.0	0.47	SW846 8270E	1	01/02/2025 19:59	CGS	D
Butylbenzylphthalate	0.55J	J,P1	ug/L	3.0	0.31	SW846 8270E	1	01/02/2025 19:59	CGS	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	01/02/2025 19:59	CGS	D
Carbazole	154	P1	ug/L	60.0	5.0	SW846 8270E	20	01/02/2025 20:24	CGS	D

Results

Client Sample ID	MW-9D	Collected	12/17/2024 09:00
Lab Sample ID	3392812001	Lab Receipt	12/18/2024 09:42

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	2.1	P1	ug/L	1.5	0.26	SW846 8270E	1	01/02/2025 19:59	CGS	D
Dibenzo(a,h)anthracene	0.59J	J,P1	ug/L	1.5	0.32	SW846 8270E	1	01/02/2025 19:59	CGS	D
Dibenzofuran	77.3	P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Di-n-Butylphthalate	0.45J	J,P1	ug/L	3.0	0.37	SW846 8270E	1	01/02/2025 19:59	CGS	D
Di-n-Octylphthalate	1.6J	J,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Fluoranthene	21.3	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Fluorene	86.9	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	01/02/2025 19:59	CGS	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	01/02/2025 19:59	CGS	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Indeno(1,2,3-cd)pyrene	0.72J	J,P1	ug/L	1.5	0.31	SW846 8270E	1	01/02/2025 19:59	CGS	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	01/02/2025 19:59	CGS	D
mp-Cresol	30.1	P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
Naphthalene	1040	P1	ug/L	30.0	13.0	SW846 8270E	20	01/02/2025 20:24	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	01/02/2025 19:59	CGS	D
N-Nitroso-di-n-propylamine	ND	ND,2,P1	ug/L	3.0	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	01/02/2025 19:59	CGS	D
o-Cresol	26.1	P1	ug/L	3.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	01/02/2025 19:59	CGS	D
Phenanthrene	67.6	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D
Phenol	12.3	P1	ug/L	8.0	0.50	SW846 8270E	1	01/02/2025 19:59	CGS	D
Pyrene	12.8	P1	ug/L	1.5	0.25	SW846 8270E	1	01/02/2025 19:59	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	80%	23 – 131	01/02/2025 19:59	
2,4,6-Tribromophenol	118-79-6	70.6%	23 – 131	01/02/2025 20:24	
2-Fluorobiphenyl	321-60-8	61.1%	24 – 116	01/02/2025 19:59	
2-Fluorobiphenyl	321-60-8	62.9%	24 – 116	01/02/2025 20:24	
2-Fluorophenol	367-12-4	46.7%	10 – 85	01/02/2025 19:59	
2-Fluorophenol	367-12-4	46.2%	10 – 85	01/02/2025 20:24	
Nitrobenzene-d5	4165-60-0	68.7%	32 – 125	01/02/2025 19:59	
Nitrobenzene-d5	4165-60-0	72.7%	32 – 125	01/02/2025 20:24	
Phenol-d5	4165-62-2	37.4%	7 – 56	01/02/2025 19:59	
Phenol-d5	4165-62-2	37%	7 – 56	01/02/2025 20:24	
Terphenyl-d14	98904-43-9	45.3%	41 – 145	01/02/2025 19:59	
Terphenyl-d14	98904-43-9	45.2%	41 – 145	01/02/2025 20:24	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	20.0	4.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	20.0	6.8	SW846 8260D	20	12/30/2024 22:28	PDK	B

Results

Client Sample ID	MW-9D	Collected	12/17/2024 09:00
Lab Sample ID	3392812001	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND,P1	ug/L	20.0	6.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,1-Dichloroethane	ND	ND,P1	ug/L	20.0	5.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,1-Dichloroethene	ND	ND,P1	ug/L	20.0	5.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	40.0	18.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2,3-Trichloropropane	ND	ND,P1	ug/L	40.0	12.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	40.0	16.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2,4-Trimethylbenzene	37.8	P1	ug/L	20.0	5.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	140	30.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2-Dibromoethane	ND	ND,P1	ug/L	20.0	5.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2-Dichlorobenzene	ND	ND,P1	ug/L	20.0	7.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2-Dichloroethane	ND	ND,P1	ug/L	20.0	6.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,2-Dichloropropane	ND	ND,P1	ug/L	20.0	4.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,3,5-Trimethylbenzene	11.8J	J,P1	ug/L	20.0	4.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,3-Dichlorobenzene	ND	ND,P1	ug/L	20.0	5.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
1,4-Dichlorobenzene	ND	ND,P1	ug/L	20.0	5.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
2-Butanone	ND	ND,P1	ug/L	200	36.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
2-Hexanone	ND	ND,P1	ug/L	100	26.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	100	30.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
Acetone	ND	ND,P1	ug/L	200	62.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
Benzene	491	P1	ug/L	20.0	4.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Bromochloromethane	ND	ND,P1	ug/L	20.0	6.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
Bromodichloromethane	ND	ND,P1	ug/L	20.0	5.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
Bromoform	ND	ND,P1	ug/L	20.0	8.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
Bromomethane	27.8	P1	ug/L	20.0	7.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Carbon Disulfide	5.8J	J,P1	ug/L	20.0	4.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Carbon Tetrachloride	ND	ND,P1	ug/L	20.0	6.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
Chlorobenzene	ND	ND,P1	ug/L	20.0	3.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Chlorodibromomethane	ND	ND,P1	ug/L	20.0	9.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
Chloroethane	ND	ND,1,P1	ug/L	20.0	6.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Chloroform	ND	ND,P1	ug/L	20.0	4.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
Chloromethane	ND	ND,P1	ug/L	20.0	6.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	20.0	6.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	20.0	6.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
Cyclohexane	ND	ND,P1	ug/L	20.0	5.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Dichlorodifluoromethane	ND	ND,P1	ug/L	20.0	6.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Ethylbenzene	16.2J	J,P1	ug/L	20.0	6.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Freon 113	ND	ND,P1	ug/L	20.0	5.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
Isopropylbenzene	ND	ND,P1	ug/L	20.0	4.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
Methyl acetate	ND	ND,P1	ug/L	40.0	6.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
Methyl cyclohexane	ND	ND,P1	ug/L	20.0	6.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
Methyl t-Butyl Ether	ND	ND,P1	ug/L	20.0	6.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Methylene Chloride	ND	ND,P1	ug/L	20.0	9.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
mp-Xylene	60.1	P1	ug/L	40.0	10.4	SW846 8260D	20	12/30/2024 22:28	PDK	B
o-Xylene	35.9	P1	ug/L	20.0	6.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Styrene	11.0J	J,P1	ug/L	20.0	4.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Tetrachloroethene	ND	ND,P1	ug/L	20.0	7.0	SW846 8260D	20	12/30/2024 22:28	PDK	B
Toluene	60.2	P1	ug/L	20.0	4.6	SW846 8260D	20	12/30/2024 22:28	PDK	B

Results

Client Sample ID	MW-9D	Collected	12/17/2024 09:00
Lab Sample ID	3392812001	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	96.0	P1	ug/L	60.0	13.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	20.0	5.2	SW846 8260D	20	12/30/2024 22:28	PDK	B
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	20.0	5.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Trichloroethene	ND	ND,P1	ug/L	20.0	6.6	SW846 8260D	20	12/30/2024 22:28	PDK	B
Trichlorofluoromethane	ND	ND,P1	ug/L	20.0	4.8	SW846 8260D	20	12/30/2024 22:28	PDK	B
Vinyl Chloride	ND	ND,P1	ug/L	20.0	6.0	SW846 8260D	20	12/30/2024 22:28	PDK	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	62 – 133	12/30/2024 22:28	
4-Bromofluorobenzene	460-00-4	92.3%	79 – 114	12/30/2024 22:28	
Dibromofluoromethane	1868-53-7	100%	78 – 116	12/30/2024 22:28	
Toluene-d8	2037-26-5	99.2%	76 – 127	12/30/2024 22:28	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	45	3,P1	mg/L	5	5	SM2310B-2011	1	12/27/2024 13:47	RAG	I
Alkalinity, Total	409	4,P1	mg/L	5	5	SM2320B-2011	1	12/28/2024 03:36	JXK	I
Chloride	400	P1	mg/L	5.0	2.2	SW846 9056A	5	12/18/2024 17:28	J1W	I
Nitrate-N	ND	ND,P1	mg/L	2.5	0.80	SW846 9056A	5	12/18/2024 17:28	J1W	I
pH	8.18	5,P1	pH_Units			S4500HB-11	1	12/28/2024 03:36	JXK	I
Specific Conductance	3490	P1	umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	971	P1	mg/L	20.0	14.0	SW846 9056A	20	12/19/2024 18:53	J1W	I
Total Dissolved Solids	2070	P1	mg/L	25	25	SM2540C-15	1	12/20/2024 16:00	RAG	I
Turbidity	28	P1	NTU	0.30	0.30	SM2130B-2011	1	12/19/2024 08:12	NPF	I

Results

Client Sample ID	MW-27S	Collected	12/17/2024 09:20
Lab Sample ID	3392812002	Lab Receipt	12/18/2024 09:42

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.22	0.072	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.22	0.072	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.044	0.020	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Arsenic, Dissolved	0.0064J	J,P1	mg/L	0.018	0.0060	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.018	0.0074	SW846 6010C	2	12/30/2024 10:15	MSY	E1
Barium, Dissolved	0.021J	J,P1	mg/L	0.022	0.0072	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Barium, Total	0.022	P1	mg/L	0.022	0.0072	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0088	0.0028	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0088	0.0028	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0015	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0044	0.0015	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Calcium, Dissolved	612	P1	mg/L	0.22	0.072	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Calcium, Total	606	P1	mg/L	0.22	0.072	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.011	0.0040	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Chromium, Total	0.0051J	J,P1	mg/L	0.011	0.0040	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.011	0.0040	SW846 6010C	2	01/03/2025 09:33	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.011	0.0040	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.022	0.0072	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Copper, Total	0.0096J	J,P1	mg/L	0.022	0.0072	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Iron, Dissolved	0.71	P1	mg/L	0.13	0.044	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Iron, Total	0.86	P1	mg/L	0.13	0.044	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.013	0.0044	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.013	0.0044	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Magnesium, Dissolved	63.2	P1	mg/L	0.22	0.072	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Magnesium, Total	67.2	P1	mg/L	0.22	0.072	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Manganese, Dissolved	0.74	P1	mg/L	0.011	0.0040	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Manganese, Total	0.82	P1	mg/L	0.011	0.0040	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:35	AJN	G
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:16	AJN	E
Nickel, Dissolved	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Potassium, Dissolved	2.9	P1	mg/L	1.1	0.36	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Potassium, Total	3.8	P1	mg/L	1.1	0.36	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Selenium, Total	0.034J	J,P1	mg/L	0.044	0.015	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0088	0.0028	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0088	0.0028	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Sodium, Dissolved	121	P1	mg/L	1.1	0.36	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Sodium, Total	133	P1	mg/L	1.1	0.36	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.011	0.0040	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.011	0.0040	SW846 6010C	2	12/26/2024 12:04	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	01/02/2025 11:41	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.044	0.015	SW846 6010C	2	12/26/2024 12:04	MSY	E1

Results

Client Sample ID	MW-27S	Collected	12/17/2024 09:20
Lab Sample ID	3392812002	Lab Receipt	12/18/2024 09:42

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
1,4-Dioxane	ND	ND,P1	ug/L	3.4	0.53	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,6,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,4-Dimethylphenol	475	P1	ug/L	33.8	5.6	SW846 8270E	10	01/02/2025 15:23	CGS	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.8	4.8	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
2-Chlorophenol	ND	ND,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.8	3.4	SW846 8270E	1	12/30/2024 17:29	CGS	D
2-Methylnaphthalene	69.4	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.4	0.29	SW846 8270E	1	12/30/2024 17:29	CGS	D
2-Nitrophenol	ND	ND,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
3,3-Dichlorobenzidine	ND	ND,P1	ug/L	18.0	9.6	SW846 8270E	1	12/30/2024 17:29	CGS	D
3-Nitroaniline	ND	ND,P1	ug/L	3.4	0.53	SW846 8270E	1	12/30/2024 17:29	CGS	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
4-Chloroaniline	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
4-Nitroaniline	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
4-Nitrophenol	ND	ND,P1	ug/L	3.4	1.2	SW846 8270E	1	12/30/2024 17:29	CGS	D
Acenaphthene	4.3	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Acenaphthylene	50.1	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Acetophenone	11.2	P1	ug/L	3.4	1.0	SW846 8270E	1	12/30/2024 17:29	CGS	D
Anthracene	12.1	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Atrazine	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Benzaldehyde	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Benzo(a)anthracene	1.5J	J,P1	ug/L	1.7	0.32	SW846 8270E	1	12/30/2024 17:29	CGS	D
Benzo(a)pyrene	0.87J	J,P1	ug/L	1.7	0.29	SW846 8270E	1	12/30/2024 17:29	CGS	D
Benzo(b)fluoranthene	0.90J	J,P1	ug/L	1.7	0.34	SW846 8270E	1	12/30/2024 17:29	CGS	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.7	0.41	SW846 8270E	1	12/30/2024 17:29	CGS	D
Benzo(k)fluoranthene	0.78J	J,P1	ug/L	1.7	0.38	SW846 8270E	1	12/30/2024 17:29	CGS	D
Biphenyl	6.1	P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.4	0.53	SW846 8270E	1	12/30/2024 17:29	CGS	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.4	0.35	SW846 8270E	1	12/30/2024 17:29	CGS	D
Caprolactam	ND	ND,P1	ug/L	3.4	0.41	SW846 8270E	1	12/30/2024 17:29	CGS	D
Carbazole	120	P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D

Results

Client Sample ID	MW-27S	Collected	12/17/2024 09:20
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	1.4J	J,P1	ug/L	1.7	0.29	SW846 8270E	1	12/30/2024 17:29	CGS	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.7	0.36	SW846 8270E	1	12/30/2024 17:29	CGS	D
Dibenzofuran	25.6	P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Diethylphthalate	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Dimethylphthalate	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.4	0.42	SW846 8270E	1	12/30/2024 17:29	CGS	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Fluoranthene	12.1	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Fluorene	35.8	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.4	0.32	SW846 8270E	1	12/30/2024 17:29	CGS	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.4	0.48	SW846 8270E	1	12/30/2024 17:29	CGS	D
Hexachloroethane	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Indeno(1,2,3-cd)pyrene	0.48J	J,P1	ug/L	1.7	0.35	SW846 8270E	1	12/30/2024 17:29	CGS	D
Isophorone	ND	ND,P1	ug/L	3.4	0.42	SW846 8270E	1	12/30/2024 17:29	CGS	D
mp-Cresol	193	P1	ug/L	3.4	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
Naphthalene	1600	P1	ug/L	16.9	7.3	SW846 8270E	10	01/02/2025 15:23	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.4	0.65	SW846 8270E	1	12/30/2024 17:29	CGS	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.4	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.4	0.36	SW846 8270E	1	12/30/2024 17:29	CGS	D
o-Cresol	325	P1	ug/L	33.8	5.6	SW846 8270E	10	01/02/2025 15:23	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	9.0	1.6	SW846 8270E	1	12/30/2024 17:29	CGS	D
Phenanthrene	31.2	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D
Phenol	186	P1	ug/L	9.0	0.56	SW846 8270E	1	12/30/2024 17:29	CGS	D
Pyrene	7.8	P1	ug/L	1.7	0.28	SW846 8270E	1	12/30/2024 17:29	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	85.8%	23 – 131	12/30/2024 17:29	
2,4,6-Tribromophenol	118-79-6	88.8%	23 – 131	01/02/2025 15:23	
2-Fluorobiphenyl	321-60-8	75.3%	24 – 116	12/30/2024 17:29	
2-Fluorobiphenyl	321-60-8	74.4%	24 – 116	01/02/2025 15:23	
2-Fluorophenol	367-12-4	62.4%	10 – 85	12/30/2024 17:29	
2-Fluorophenol	367-12-4	56.6%	10 – 85	01/02/2025 15:23	
Nitrobenzene-d5	4165-60-0	81%	32 – 125	12/30/2024 17:29	
Nitrobenzene-d5	4165-60-0	79.2%	32 – 125	01/02/2025 15:23	
Phenol-d5	4165-62-2	47.1%	7 – 56	12/30/2024 17:29	
Phenol-d5	4165-62-2	46.1%	7 – 56	01/02/2025 15:23	
Terphenyl-d14	98904-43-9	57.2%	41 – 145	12/30/2024 17:29	
Terphenyl-d14	98904-43-9	46.9%	41 – 145	01/02/2025 15:23	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	50.0	17.0	SW846 8260D	50	12/30/2024 22:48	PDK	B

Results

Client Sample ID	MW-27S	Collected	12/17/2024 09:20
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,1-Dichloroethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,1-Dichloroethene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	100	46.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2,3-Trichloropropane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	100	41.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2,4-Trimethylbenzene	41.1J	J,P1	ug/L	50.0	12.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	350	75.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2-Dibromoethane	ND	ND,P1	ug/L	50.0	14.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2-Dichlorobenzene	ND	ND,P1	ug/L	50.0	19.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2-Dichloroethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,2-Dichloropropane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,3,5-Trimethylbenzene	21.2J	J,P1	ug/L	50.0	10.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,3-Dichlorobenzene	ND	ND,P1	ug/L	50.0	12.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
1,4-Dichlorobenzene	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
2-Butanone	ND	ND,P1	ug/L	500	90.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
2-Hexanone	ND	ND,P1	ug/L	250	65.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	250	75.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Acetone	ND	ND,P1	ug/L	500	155	SW846 8260D	50	12/30/2024 22:48	PDK	B
Benzene	1640	P1	ug/L	50.0	11.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Bromochloromethane	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Bromodichloromethane	ND	ND,P1	ug/L	50.0	13.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Bromoform	ND	ND,P1	ug/L	50.0	20.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Bromomethane	19.8J	J,P1	ug/L	50.0	19.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Carbon Disulfide	ND	ND,P1	ug/L	50.0	11.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Carbon Tetrachloride	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Chlorobenzene	ND	ND,P1	ug/L	50.0	9.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Chlorodibromomethane	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Chloroethane	ND	ND,1,P1	ug/L	50.0	16.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Chloroform	ND	ND,P1	ug/L	50.0	10.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Chloromethane	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	16.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	15.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Cyclohexane	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Dichlorodifluoromethane	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Ethylbenzene	17.3J	J,P1	ug/L	50.0	17.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Freon 113	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Isopropylbenzene	ND	ND,P1	ug/L	50.0	11.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Methyl acetate	ND	ND,P1	ug/L	100	16.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Methyl cyclohexane	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Methyl t-Butyl Ether	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Methylene Chloride	ND	ND,P1	ug/L	50.0	22.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
mp-Xylene	162	P1	ug/L	100	26.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
o-Xylene	74.6	P1	ug/L	50.0	16.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Styrene	23.8J	J,P1	ug/L	50.0	12.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Tetrachloroethene	ND	ND,P1	ug/L	50.0	17.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Toluene	221	P1	ug/L	50.0	11.5	SW846 8260D	50	12/30/2024 22:48	PDK	B

Results

Client Sample ID	MW-27S	Collected	12/17/2024 09:20
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	236	P1	ug/L	150	33.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	50.0	13.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	50.0	14.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Trichloroethene	ND	ND,P1	ug/L	50.0	16.5	SW846 8260D	50	12/30/2024 22:48	PDK	B
Trichlorofluoromethane	ND	ND,P1	ug/L	50.0	12.0	SW846 8260D	50	12/30/2024 22:48	PDK	B
Vinyl Chloride	ND	ND,P1	ug/L	50.0	15.0	SW846 8260D	50	12/30/2024 22:48	PDK	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99%	62 – 133	12/30/2024 22:48	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	12/30/2024 22:48	
Dibromofluoromethane	1868-53-7	95.6%	78 – 116	12/30/2024 22:48	
Toluene-d8	2037-26-5	99.1%	76 – 127	12/30/2024 22:48	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	39	3,P1	mg/L	5	5	SM2310B-2011	1	12/27/2024 13:47	RAG	I
Alkalinity, Total	377	4,P1	mg/L	5	5	SM2320B-2011	1	12/28/2024 03:48	JXK	I
Chloride	36.0	P1	mg/L	5.0	2.2	SW846 9056A	5	12/18/2024 17:40	J1W	I
Nitrate-N	4.7	P1	mg/L	2.5	0.80	SW846 9056A	5	12/18/2024 17:40	J1W	I
pH	8.14	5,P1	pH_Units			S4500HB-11	1	12/28/2024 03:48	JXK	I
Specific Conductance	3210	P1	umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	1540	P1	mg/L	20.0	14.0	SW846 9056A	20	12/19/2024 19:04	J1W	I
Total Dissolved Solids	2660	P1	mg/L	25	25	SM2540C-15	1	12/20/2024 16:00	RAG	I
Turbidity	12	P1	NTU	0.30	0.30	SM2130B-2011	1	12/19/2024 08:12	NPF	I

Results

Client Sample ID	MW-27D	Collected	12/17/2024 11:10
Lab Sample ID	3392812003	Lab Receipt	12/18/2024 09:42

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Antimony, Total	0.0083J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Arsenic, Dissolved	0.028	P1	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Arsenic, Total	0.0097	P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:16	MSY	E1
Barium, Dissolved	0.062	P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Barium, Total	0.047	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Calcium, Dissolved	299	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Calcium, Total	282	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Chromium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:34	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Copper, Dissolved	ND	ND,P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Copper, Total	0.0038J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Iron, Dissolved	1.6	P1	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Iron, Total	1.5	P1	mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Magnesium, Dissolved	46.5	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Magnesium, Total	39.7	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Manganese, Dissolved	0.55	P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Manganese, Total	0.55	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:30	AJN	G
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:04	AJN	E
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Potassium, Dissolved	3.7	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Potassium, Total	2.5	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Selenium, Total	0.021J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Sodium, Dissolved	66.2	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Sodium, Total	68.6	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:13	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:43	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:13	MSY	E1

Results

Client Sample ID	MW-27D	Collected	12/17/2024 11:10
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,6,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,4-Dimethylphenol	543	P1	ug/L	30.0	5.0	SW846 8270E	10	12/27/2024 12:05	CGS	D
2,4-Dinitrophenol	ND	ND,7,P1	ug/L	6.0	4.3	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/26/2024 15:12	CGS	D
2-Methylnaphthalene	482	P1	ug/L	15.0	2.5	SW846 8270E	10	12/27/2024 12:05	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/26/2024 15:12	CGS	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
3,3-Dichlorobenzidine	ND	ND,P1	ug/L	16.0	8.5	SW846 8270E	1	12/26/2024 15:12	CGS	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 15:12	CGS	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/26/2024 15:12	CGS	D
Acenaphthene	14.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Acenaphthylene	200	P1	ug/L	15.0	2.5	SW846 8270E	10	12/27/2024 12:05	CGS	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/26/2024 15:12	CGS	D
Anthracene	23.6	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Benzo(a)anthracene	0.83J	J,P1	ug/L	1.5	0.28	SW846 8270E	1	12/26/2024 15:12	CGS	D
Benzo(a)pyrene	0.26J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 15:12	CGS	D
Benzo(b)fluoranthene	ND	ND,P1	ug/L	1.5	0.30	SW846 8270E	1	12/26/2024 15:12	CGS	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/26/2024 15:12	CGS	D
Benzo(k)fluoranthene	ND	ND,P1	ug/L	1.5	0.34	SW846 8270E	1	12/26/2024 15:12	CGS	D
Biphenyl	40.1	P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 15:12	CGS	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/26/2024 15:12	CGS	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/26/2024 15:12	CGS	D
Carbazole	456	P1	ug/L	30.0	2.5	SW846 8270E	10	12/27/2024 12:05	CGS	D

Results

Client Sample ID	MW-27D	Collected	12/17/2024 11:10
Lab Sample ID	3392812003	Lab Receipt	12/18/2024 09:42

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.71J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 15:12	CGS	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/26/2024 15:12	CGS	D
Dibenzofuran	97.4	P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 15:12	CGS	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Fluoranthene	10.8	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Fluorene	103	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/26/2024 15:12	CGS	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/26/2024 15:12	CGS	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/26/2024 15:12	CGS	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 15:12	CGS	D
mp-Cresol	364	P1	ug/L	30.0	5.0	SW846 8270E	10	12/27/2024 12:05	CGS	D
Naphthalene	12500	P1	ug/L	1500	650	SW846 8270E	1000	12/27/2024 12:31	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/26/2024 15:12	CGS	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/26/2024 15:12	CGS	D
o-Cresol	682	P1	ug/L	30.0	5.0	SW846 8270E	10	12/27/2024 12:05	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/26/2024 15:12	CGS	D
Phenanthrene	87.3	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D
Phenol	196	P1	ug/L	8.0	0.50	SW846 8270E	1	12/26/2024 15:12	CGS	D
Pyrene	6.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:12	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	68.4%	23 – 131	12/26/2024 15:12	
2-Fluorobiphenyl	321-60-8	79.4%	24 – 116	12/26/2024 15:12	
2-Fluorophenol	367-12-4	36.8%	10 – 85	12/26/2024 15:12	
Nitrobenzene-d5	4165-60-0	107%	32 – 125	12/26/2024 15:12	
Phenol-d5	4165-62-2	34.1%	7 – 56	12/26/2024 15:12	
Terphenyl-d14	98904-43-9	61%	41 – 145	12/26/2024 15:12	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	100	22.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	100	34.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	100	33.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,1-Dichloroethane	ND	ND,P1	ug/L	100	28.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,1-Dichloroethene	ND	ND,P1	ug/L	100	29.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	200	93.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	200	60.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	200	82.0	SW846 8260D	100	12/30/2024 23:07	PDK	A

Results

Client Sample ID	MW-27D	Collected	12/17/2024 11:10
Lab Sample ID	3392812003	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	227	P1	ug/L	100	25.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	700	150	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2-Dibromoethane	ND	ND,P1	ug/L	100	28.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	100	38.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2-Dichloroethane	ND	ND,P1	ug/L	100	32.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,2-Dichloropropane	ND	ND,P1	ug/L	100	24.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,3,5-Trimethylbenzene	112	P1	ug/L	100	20.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	100	25.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	100	27.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
2-Butanone	ND	ND,P1	ug/L	1000	180	SW846 8260D	100	12/30/2024 23:07	PDK	A
2-Hexanone	ND	ND,P1	ug/L	500	130	SW846 8260D	100	12/30/2024 23:07	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	500	150	SW846 8260D	100	12/30/2024 23:07	PDK	A
Acetone	ND	ND,P1	ug/L	1000	310	SW846 8260D	100	12/30/2024 23:07	PDK	A
Benzene	5090	P1	ug/L	100	23.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Bromochloromethane	ND	ND,P1	ug/L	100	32.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	100	27.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Bromoform	ND	ND,P1	ug/L	100	40.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Bromomethane	ND	ND,P1	ug/L	100	39.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Carbon Disulfide	ND	ND,P1	ug/L	100	23.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Carbon Tetrachloride	ND	ND,P1	ug/L	100	31.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Chlorobenzene	ND	ND,P1	ug/L	100	19.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Chlorodibromomethane	ND	ND,P1	ug/L	100	45.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Chloroethane	ND	ND,1,P1	ug/L	100	33.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Chloroform	ND	ND,P1	ug/L	100	21.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Chloromethane	ND	ND,P1	ug/L	100	31.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	100	32.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	100	31.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Cyclohexane	ND	ND,P1	ug/L	100	29.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	100	33.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Ethylbenzene	53.5J	J,P1	ug/L	100	34.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Freon 113	ND	ND,P1	ug/L	100	26.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Isopropylbenzene	ND	ND,P1	ug/L	100	22.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Methyl acetate	ND	ND,P1	ug/L	200	32.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Methyl cyclohexane	ND	ND,P1	ug/L	100	30.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	100	33.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Methylene Chloride	ND	ND,P1	ug/L	100	45.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
mp-Xylene	358	P1	ug/L	200	52.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
o-Xylene	245	P1	ug/L	100	33.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Styrene	56.5J	J,P1	ug/L	100	24.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Tetrachloroethene	ND	ND,P1	ug/L	100	35.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Toluene	496	P1	ug/L	100	23.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Total Xylenes	603	P1	ug/L	300	66.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	100	26.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	100	29.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Trichloroethene	ND	ND,P1	ug/L	100	33.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Trichlorofluoromethane	ND	ND,P1	ug/L	100	24.0	SW846 8260D	100	12/30/2024 23:07	PDK	A
Vinyl Chloride	ND	ND,P1	ug/L	100	30.0	SW846 8260D	100	12/30/2024 23:07	PDK	A

Results

Client Sample ID	MW-27D	Collected	12/17/2024 11:10
Lab Sample ID	3392812003	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.8%	62 – 133	12/30/2024 23:07	
4-Bromofluorobenzene	460-00-4	96.7%	79 – 114	12/30/2024 23:07	
Dibromofluoromethane	1868-53-7	95.2%	78 – 116	12/30/2024 23:07	
Toluene-d8	2037-26-5	98.8%	76 – 127	12/30/2024 23:07	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	24	3,P1	mg/L	5	5	SM2310B-2011	1	12/27/2024 13:47	RAG	I
Alkalinity, Total	392	4,P1	mg/L	5	5	SM2320B-2011	1	12/28/2024 04:00	JXK	I
Chloride	18.3	P1	mg/L	5.0	2.2	SW846 9056A	5	12/18/2024 17:51	J1W	I
Nitrate-N	2.0J	J,P1	mg/L	2.5	0.80	SW846 9056A	5	12/18/2024 17:51	J1W	I
pH	8.24	5,P1	pH_Units			S4500HB-11	1	12/28/2024 04:00	JXK	I
Specific Conductance	2290	P1	umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	647	P1	mg/L	10.0	7.0	SW846 9056A	10	12/19/2024 19:16	J1W	I
Total Dissolved Solids	1360	P1	mg/L	25	25	SM2540C-15	1	12/20/2024 16:00	RAG	I
Turbidity	9.3	P1	NTU	0.30	0.30	SM2130B-2011	1	12/19/2024 08:12	NPF	I

Results

Client Sample ID	MW-36S	Collected	12/17/2024 09:20
Lab Sample ID	3392812004	Lab Receipt	12/18/2024 09:42

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Arsenic, Dissolved	0.0073J	J,P1	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:18	MSY	E1
Barium, Dissolved	0.024	P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Barium, Total	0.024	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Calcium, Dissolved	566	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Calcium, Total	563	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Chromium, Dissolved	0.0024J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Chromium, Total	0.0028J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:36	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Copper, Dissolved	0.0070J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Copper, Total	0.0089J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Iron, Dissolved	5.9	P1	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Iron, Total	6.2	P1	mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Magnesium, Dissolved	81.1	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Magnesium, Total	80.9	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Manganese, Dissolved	1.6	P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Manganese, Total	1.6	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:32	AJN	G
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:08	AJN	E
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Potassium, Dissolved	8.5	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Potassium, Total	8.6	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Selenium, Total	0.016J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Sodium, Dissolved	30.6	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Sodium, Total	31.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:14	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:45	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:14	MSY	E1

Results

Client Sample ID	MW-36S	Collected	12/17/2024 09:20
Lab Sample ID	3392812004	Lab Receipt	12/18/2024 09:42

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,6,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,4-Dimethylphenol	311	P1	ug/L	30.0	5.0	SW846 8270E	10	01/02/2025 15:49	CGS	D
2,4-Dinitrophenol	ND	ND,P1	ug/L	6.0	4.3	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/30/2024 17:55	CGS	D
2-Methylnaphthalene	791	E,P1	ug/L	15.0	2.5	SW846 8270E	10	01/02/2025 15:49	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/30/2024 17:55	CGS	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
3,3-Dichlorobenzidine	ND	ND,P1	ug/L	16.0	8.5	SW846 8270E	1	12/30/2024 17:55	CGS	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/30/2024 17:55	CGS	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/30/2024 17:55	CGS	D
Acenaphthene	15.2	P1	ug/L	1.5	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Acenaphthylene	417	P1	ug/L	15.0	2.5	SW846 8270E	10	01/02/2025 15:49	CGS	D
Acetophenone	ND	ND,P1	ug/L	3.0	0.90	SW846 8270E	1	12/30/2024 17:55	CGS	D
Anthracene	23.0	P1	ug/L	1.5	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Benzo(a)anthracene	2.2	P1	ug/L	1.5	0.28	SW846 8270E	1	12/30/2024 17:55	CGS	D
Benzo(a)pyrene	0.94J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/30/2024 17:55	CGS	D
Benzo(b)fluoranthene	0.91J	J,P1	ug/L	1.5	0.30	SW846 8270E	1	12/30/2024 17:55	CGS	D
Benzo(g,h,i)perylene	0.41J	J,P1	ug/L	1.5	0.36	SW846 8270E	1	12/30/2024 17:55	CGS	D
Benzo(k)fluoranthene	0.94J	J,P1	ug/L	1.5	0.34	SW846 8270E	1	12/30/2024 17:55	CGS	D
Biphenyl	64.8	P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/30/2024 17:55	CGS	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/30/2024 17:55	CGS	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/30/2024 17:55	CGS	D
Carbazole	572	P1	ug/L	30.0	2.5	SW846 8270E	10	01/02/2025 15:49	CGS	D

Results

Client Sample ID	MW-36S	Collected	12/17/2024 09:20
Lab Sample ID	3392812004	Lab Receipt	12/18/2024 09:42

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	1.8	P1	ug/L	1.5	0.26	SW846 8270E	1	12/30/2024 17:55	CGS	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/30/2024 17:55	CGS	D
Dibenzofuran	138	P1	ug/L	30.0	2.5	SW846 8270E	10	01/02/2025 15:49	CGS	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/30/2024 17:55	CGS	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Fluoranthene	17.2	P1	ug/L	1.5	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Fluorene	136	P1	ug/L	15.0	2.5	SW846 8270E	10	01/02/2025 15:49	CGS	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/30/2024 17:55	CGS	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/30/2024 17:55	CGS	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Indeno(1,2,3-cd)pyrene	0.48J	J,P1	ug/L	1.5	0.31	SW846 8270E	1	12/30/2024 17:55	CGS	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/30/2024 17:55	CGS	D
mp-Cresol	292	P1	ug/L	30.0	5.0	SW846 8270E	10	01/02/2025 15:49	CGS	D
Naphthalene	8780	P1	ug/L	15.0	6.5	SW846 8270E	10	01/02/2025 15:49	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/30/2024 17:55	CGS	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/30/2024 17:55	CGS	D
o-Cresol	839	P1	ug/L	30.0	5.0	SW846 8270E	10	01/02/2025 15:49	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/30/2024 17:55	CGS	D
Phenanthrene	116	P1	ug/L	1.5	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D
Phenol	62.5	P1	ug/L	8.0	0.50	SW846 8270E	1	12/30/2024 17:55	CGS	D
Pyrene	9.3	P1	ug/L	1.5	0.25	SW846 8270E	1	12/30/2024 17:55	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	81.1%	23 – 131	12/30/2024 17:55	
2,4,6-Tribromophenol	118-79-6	84.4%	23 – 131	01/02/2025 15:49	
2-Fluorobiphenyl	321-60-8	75.5%	24 – 116	12/30/2024 17:55	
2-Fluorobiphenyl	321-60-8	68.3%	24 – 116	01/02/2025 15:49	
2-Fluorophenol	367-12-4	54.5%	10 – 85	12/30/2024 17:55	
2-Fluorophenol	367-12-4	48.5%	10 – 85	01/02/2025 15:49	
Nitrobenzene-d5	4165-60-0	108%	32 – 125	12/30/2024 17:55	
Nitrobenzene-d5	4165-60-0	78.1%	32 – 125	01/02/2025 15:49	
Phenol-d5	4165-62-2	40%	7 – 56	12/30/2024 17:55	
Phenol-d5	4165-62-2	38.4%	7 – 56	01/02/2025 15:49	
Terphenyl-d14	98904-43-9	56.2%	41 – 145	12/30/2024 17:55	
Terphenyl-d14	98904-43-9	47.1%	41 – 145	01/02/2025 15:49	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	500	110	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	500	170	SW846 8260D	500	12/27/2024 19:07	ILY	A

Results

Client Sample ID	MW-36S	Collected	12/17/2024 09:20
Lab Sample ID	3392812004	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,2-Trichloroethane	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,1-Dichloroethane	ND	ND,P1	ug/L	500	140	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,1-Dichloroethene	ND	ND,P1	ug/L	500	145	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	1000	465	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	1000	300	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	1000	410	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2,4-Trimethylbenzene	203J	J,P1	ug/L	500	125	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	3500	750	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2-Dibromoethane	ND	ND,P1	ug/L	500	140	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	500	190	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2-Dichloroethane	ND	ND,P1	ug/L	500	160	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,2-Dichloropropane	ND	ND,P1	ug/L	500	120	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,3,5-Trimethylbenzene	135J	J,P1	ug/L	500	100	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	500	125	SW846 8260D	500	12/27/2024 19:07	ILY	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	500	135	SW846 8260D	500	12/27/2024 19:07	ILY	A
2-Butanone	ND	ND,P1	ug/L	5000	900	SW846 8260D	500	12/27/2024 19:07	ILY	A
2-Hexanone	ND	ND,P1	ug/L	2500	650	SW846 8260D	500	12/27/2024 19:07	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	2500	750	SW846 8260D	500	12/27/2024 19:07	ILY	A
Acetone	ND	ND,P1	ug/L	5000	1550	SW846 8260D	500	12/27/2024 19:07	ILY	A
Benzene	7910	P1	ug/L	500	115	SW846 8260D	500	12/27/2024 19:07	ILY	A
Bromochloromethane	ND	ND,P1	ug/L	500	160	SW846 8260D	500	12/27/2024 19:07	ILY	A
Bromodichloromethane	ND	ND,P1	ug/L	500	135	SW846 8260D	500	12/27/2024 19:07	ILY	A
Bromoform	ND	ND,P1	ug/L	500	200	SW846 8260D	500	12/27/2024 19:07	ILY	A
Bromomethane	ND	ND,P1	ug/L	500	195	SW846 8260D	500	12/27/2024 19:07	ILY	A
Carbon Disulfide	ND	ND,P1	ug/L	500	115	SW846 8260D	500	12/27/2024 19:07	ILY	A
Carbon Tetrachloride	ND	ND,P1	ug/L	500	155	SW846 8260D	500	12/27/2024 19:07	ILY	A
Chlorobenzene	ND	ND,P1	ug/L	500	95.0	SW846 8260D	500	12/27/2024 19:07	ILY	A
Chlorodibromomethane	ND	ND,P1	ug/L	500	225	SW846 8260D	500	12/27/2024 19:07	ILY	A
Chloroethane	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:07	ILY	A
Chloroform	ND	ND,P1	ug/L	500	105	SW846 8260D	500	12/27/2024 19:07	ILY	A
Chloromethane	ND	ND,P1	ug/L	500	155	SW846 8260D	500	12/27/2024 19:07	ILY	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	500	160	SW846 8260D	500	12/27/2024 19:07	ILY	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	500	155	SW846 8260D	500	12/27/2024 19:07	ILY	A
Cyclohexane	ND	ND,P1	ug/L	500	145	SW846 8260D	500	12/27/2024 19:07	ILY	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:07	ILY	A
Ethylbenzene	219J	J,P1	ug/L	500	170	SW846 8260D	500	12/27/2024 19:07	ILY	A
Freon 113	ND	ND,P1	ug/L	500	130	SW846 8260D	500	12/27/2024 19:07	ILY	A
Isopropylbenzene	ND	ND,P1	ug/L	500	110	SW846 8260D	500	12/27/2024 19:07	ILY	A
Methyl acetate	ND	ND,8,P1	ug/L	1000	160	SW846 8260D	500	12/27/2024 19:07	ILY	A
Methyl cyclohexane	ND	ND,P1	ug/L	500	150	SW846 8260D	500	12/27/2024 19:07	ILY	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:07	ILY	A
Methylene Chloride	ND	ND,P1	ug/L	500	225	SW846 8260D	500	12/27/2024 19:07	ILY	A
mp-Xylene	1950	P1	ug/L	1000	260	SW846 8260D	500	12/27/2024 19:07	ILY	A
o-Xylene	551	P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:07	ILY	A
Styrene	209J	J,P1	ug/L	500	120	SW846 8260D	500	12/27/2024 19:07	ILY	A
Tetrachloroethene	ND	ND,P1	ug/L	500	175	SW846 8260D	500	12/27/2024 19:07	ILY	A
Toluene	1430	P1	ug/L	500	115	SW846 8260D	500	12/27/2024 19:07	ILY	A

Results

Client Sample ID	MW-36S	Collected	12/17/2024 09:20
Lab Sample ID	3392812004	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Total Xylenes	2500	P1	ug/L	1500	330	SW846 8260D	500	12/27/2024 19:07	ILY	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	500	130	SW846 8260D	500	12/27/2024 19:07	ILY	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	500	145	SW846 8260D	500	12/27/2024 19:07	ILY	A
Trichloroethene	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:07	ILY	A
Trichlorofluoromethane	ND	ND,P1	ug/L	500	120	SW846 8260D	500	12/27/2024 19:07	ILY	A
Vinyl Chloride	ND	ND,P1	ug/L	500	150	SW846 8260D	500	12/27/2024 19:07	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 – 133	12/27/2024 19:07	
4-Bromofluorobenzene	460-00-4	97.1%	79 – 114	12/27/2024 19:07	
Dibromofluoromethane	1868-53-7	103%	78 – 116	12/27/2024 19:07	
Toluene-d8	2037-26-5	106%	76 – 127	12/27/2024 19:07	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	50	3,P1	mg/L	5	5	SM2310B-2011	1	12/27/2024 13:47	RAG	I
Alkalinity, Total	368	4,P1	mg/L	5	5	SM2320B-2011	1	12/28/2024 04:13	JXK	I
Chloride	22.0	P1	mg/L	5.0	2.2	SW846 9056A	5	12/18/2024 18:49	J1W	I
Nitrate-N	28.7	P1	mg/L	2.5	0.80	SW846 9056A	5	12/18/2024 18:49	J1W	I
pH	8.13	5,P1	pH_Units			S4500HB-11	1	12/28/2024 04:13	JXK	I
Specific Conductance	3450	P1	umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	1400	P1	mg/L	20.0	14.0	SW846 9056A	20	12/19/2024 19:27	J1W	I
Total Dissolved Solids	2430	P1	mg/L	25	25	SM2540C-15	1	12/20/2024 17:15	RAG	I
Turbidity	50	P1	NTU	0.30	0.30	SM2130B-2011	1	12/19/2024 08:12	NPF	I

Results

Client Sample ID	MW-36D	Collected	12/17/2024 11:10
Lab Sample ID	3392812005	Lab Receipt	12/18/2024 09:42

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Aluminum, Total	ND	ND,P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Antimony, Dissolved	ND	ND,P1	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Antimony, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Arsenic, Dissolved	0.0073J	J,P1	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Arsenic, Total	ND	ND,P1	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:23	MSY	E1
Barium, Dissolved	0.015	P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Barium, Total	0.015	P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Beryllium, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Cadmium, Total	ND	ND,P1	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Calcium, Dissolved	529	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Calcium, Total	520	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Chromium, Dissolved	0.0027J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Chromium, Total	0.0026J	J,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:37	MSY	G1
Cobalt, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Copper, Dissolved	0.0064J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Copper, Total	0.0086J	J,P1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Iron, Dissolved	0.80	P1	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Iron, Total	0.81	P1	mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Lead, Dissolved	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Lead, Total	ND	ND,P1	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Magnesium, Dissolved	91.6	P1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Magnesium, Total	91.2	P1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Manganese, Dissolved	0.57	P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Manganese, Total	0.55	P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:31	AJN	G
Mercury, Total	ND	ND,P1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:06	AJN	E
Nickel, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Nickel, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Potassium, Dissolved	3.1	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Potassium, Total	3.1	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Selenium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Selenium, Total	0.018J	J,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Silver, Dissolved	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Silver, Total	ND	ND,P1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Sodium, Dissolved	38.4	P1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Sodium, Total	38.9	P1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Thallium, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Thallium, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Vanadium, Total	ND	ND,P1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:15	MSY	E1
Zinc, Dissolved	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:48	MSY	G1
Zinc, Total	ND	ND,P1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:15	MSY	E1

Results

Client Sample ID	MW-36D	Collected	12/17/2024 11:10
Lab Sample ID	3392812005	Lab Receipt	12/18/2024 09:42

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
1,4-Dioxane	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,6,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,4,5-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,4,6-Trichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,4-Dichlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,4-Dimethylphenol	183	P1	ug/L	30.0	5.0	SW846 8270E	10	12/27/2024 12:57	CGS	D
2,4-Dinitrophenol	ND	ND,7,P1	ug/L	6.0	4.3	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,4-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
2,6-Dinitrotoluene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
2-Chloronaphthalene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
2-Chlorophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1	ug/L	6.0	3.0	SW846 8270E	1	12/26/2024 15:38	CGS	D
2-Methylnaphthalene	828	P1	ug/L	15.0	2.5	SW846 8270E	10	12/27/2024 12:57	CGS	D
2-Nitroaniline	ND	ND,P1	ug/L	3.0	0.26	SW846 8270E	1	12/26/2024 15:38	CGS	D
2-Nitrophenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
3,3-Dichlorobenzidine	ND	ND,P1	ug/L	16.0	8.5	SW846 8270E	1	12/26/2024 15:38	CGS	D
3-Nitroaniline	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 15:38	CGS	D
4-Bromophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
4-Chloro-3-methylphenol	ND	ND,P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
4-Chloroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
4-Chlorophenyl-phenylether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
4-Nitroaniline	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
4-Nitrophenol	ND	ND,P1	ug/L	3.0	1.1	SW846 8270E	1	12/26/2024 15:38	CGS	D
Acenaphthene	12.6	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Acenaphthylene	409	P1	ug/L	15.0	2.5	SW846 8270E	10	12/27/2024 12:57	CGS	D
Acetophenone	12.2	P1	ug/L	3.0	0.90	SW846 8270E	1	12/26/2024 15:38	CGS	D
Anthracene	18.2	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Atrazine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Benzaldehyde	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Benzo(a)anthracene	1.2J	J,P1	ug/L	1.5	0.28	SW846 8270E	1	12/26/2024 15:38	CGS	D
Benzo(a)pyrene	0.40J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 15:38	CGS	D
Benzo(b)fluoranthene	0.45J	J,P1	ug/L	1.5	0.30	SW846 8270E	1	12/26/2024 15:38	CGS	D
Benzo(g,h,i)perylene	ND	ND,P1	ug/L	1.5	0.36	SW846 8270E	1	12/26/2024 15:38	CGS	D
Benzo(k)fluoranthene	0.37J	J,P1	ug/L	1.5	0.34	SW846 8270E	1	12/26/2024 15:38	CGS	D
Biphenyl	61.4	P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
bis(2-Chloroethoxy)methane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
bis(2-Chloroethyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 15:38	CGS	D
Butylbenzylphthalate	ND	ND,P1	ug/L	3.0	0.31	SW846 8270E	1	12/26/2024 15:38	CGS	D
Caprolactam	ND	ND,P1	ug/L	3.0	0.36	SW846 8270E	1	12/26/2024 15:38	CGS	D
Carbazole	513	P1	ug/L	30.0	2.5	SW846 8270E	10	12/27/2024 12:57	CGS	D

Results

Client Sample ID	MW-36D	Collected	12/17/2024 11:10
Lab Sample ID	3392812005	Lab Receipt	12/18/2024 09:42

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	0.86J	J,P1	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 15:38	CGS	D
Dibenzo(a,h)anthracene	ND	ND,P1	ug/L	1.5	0.32	SW846 8270E	1	12/26/2024 15:38	CGS	D
Dibenzofuran	138	P1	ug/L	30.0	2.5	SW846 8270E	10	12/27/2024 12:57	CGS	D
Diethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Dimethylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Di-n-Butylphthalate	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 15:38	CGS	D
Di-n-Octylphthalate	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Fluoranthene	12.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Fluorene	143	P1	ug/L	15.0	2.5	SW846 8270E	10	12/27/2024 12:57	CGS	D
Hexachlorobenzene	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Hexachlorobutadiene	ND	ND,P1	ug/L	3.0	0.28	SW846 8270E	1	12/26/2024 15:38	CGS	D
Hexachlorocyclopentadiene	ND	ND,P1	ug/L	3.0	0.43	SW846 8270E	1	12/26/2024 15:38	CGS	D
Hexachloroethane	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1	ug/L	1.5	0.31	SW846 8270E	1	12/26/2024 15:38	CGS	D
Isophorone	ND	ND,P1	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 15:38	CGS	D
mp-Cresol	72.1	P1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
Naphthalene	11200	P1	ug/L	1500	650	SW846 8270E	1000	12/27/2024 13:22	CGS	D
Nitrobenzene	ND	ND,P1	ug/L	3.0	0.58	SW846 8270E	1	12/26/2024 15:38	CGS	D
N-Nitroso-di-n-propylamine	ND	ND,P1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
N-Nitrosodiphenylamine	ND	ND,P1	ug/L	3.0	0.32	SW846 8270E	1	12/26/2024 15:38	CGS	D
o-Cresol	308	P1	ug/L	30.0	5.0	SW846 8270E	10	12/27/2024 12:57	CGS	D
Pentachlorophenol	ND	ND,P1	ug/L	8.0	1.4	SW846 8270E	1	12/26/2024 15:38	CGS	D
Phenanthrene	99.7	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D
Phenol	23.6	P1	ug/L	8.0	0.50	SW846 8270E	1	12/26/2024 15:38	CGS	D
Pyrene	7.3	P1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 15:38	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	66.3%	23 – 131	12/26/2024 15:38	
2-Fluorobiphenyl	321-60-8	71.4%	24 – 116	12/26/2024 15:38	
2-Fluorophenol	367-12-4	34.3%	10 – 85	12/26/2024 15:38	
Nitrobenzene-d5	4165-60-0	95.3%	32 – 125	12/26/2024 15:38	
Phenol-d5	4165-62-2	28.6%	7 – 56	12/26/2024 15:38	
Terphenyl-d14	98904-43-9	48.4%	41 – 145	12/26/2024 15:38	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	500	110	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	500	170	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,1-Dichloroethane	ND	ND,P1	ug/L	500	140	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,1-Dichloroethene	ND	ND,P1	ug/L	500	145	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	1000	465	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	1000	300	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	1000	410	SW846 8260D	500	12/27/2024 19:27	ILY	A

Results

Client Sample ID	MW-36D	Collected	12/17/2024 11:10
Lab Sample ID	3392812005	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	179J	J,P1	ug/L	500	125	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	3500	750	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2-Dibromoethane	ND	ND,P1	ug/L	500	140	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	500	190	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2-Dichloroethane	ND	ND,P1	ug/L	500	160	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,2-Dichloropropane	ND	ND,P1	ug/L	500	120	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,3,5-Trimethylbenzene	123J	J,P1	ug/L	500	100	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	500	125	SW846 8260D	500	12/27/2024 19:27	ILY	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	500	135	SW846 8260D	500	12/27/2024 19:27	ILY	A
2-Butanone	ND	ND,P1	ug/L	5000	900	SW846 8260D	500	12/27/2024 19:27	ILY	A
2-Hexanone	ND	ND,P1	ug/L	2500	650	SW846 8260D	500	12/27/2024 19:27	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	2500	750	SW846 8260D	500	12/27/2024 19:27	ILY	A
Acetone	ND	ND,P1	ug/L	5000	1550	SW846 8260D	500	12/27/2024 19:27	ILY	A
Benzene	6260	P1	ug/L	500	115	SW846 8260D	500	12/27/2024 19:27	ILY	A
Bromochloromethane	ND	ND,P1	ug/L	500	160	SW846 8260D	500	12/27/2024 19:27	ILY	A
Bromodichloromethane	ND	ND,P1	ug/L	500	135	SW846 8260D	500	12/27/2024 19:27	ILY	A
Bromoform	ND	ND,P1	ug/L	500	200	SW846 8260D	500	12/27/2024 19:27	ILY	A
Bromomethane	ND	ND,P1	ug/L	500	195	SW846 8260D	500	12/27/2024 19:27	ILY	A
Carbon Disulfide	ND	ND,P1	ug/L	500	115	SW846 8260D	500	12/27/2024 19:27	ILY	A
Carbon Tetrachloride	ND	ND,P1	ug/L	500	155	SW846 8260D	500	12/27/2024 19:27	ILY	A
Chlorobenzene	ND	ND,P1	ug/L	500	95.0	SW846 8260D	500	12/27/2024 19:27	ILY	A
Chlorodibromomethane	ND	ND,P1	ug/L	500	225	SW846 8260D	500	12/27/2024 19:27	ILY	A
Chloroethane	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:27	ILY	A
Chloroform	ND	ND,P1	ug/L	500	105	SW846 8260D	500	12/27/2024 19:27	ILY	A
Chloromethane	ND	ND,P1	ug/L	500	155	SW846 8260D	500	12/27/2024 19:27	ILY	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	500	160	SW846 8260D	500	12/27/2024 19:27	ILY	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	500	155	SW846 8260D	500	12/27/2024 19:27	ILY	A
Cyclohexane	ND	ND,P1	ug/L	500	145	SW846 8260D	500	12/27/2024 19:27	ILY	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:27	ILY	A
Ethylbenzene	ND	ND,P1	ug/L	500	170	SW846 8260D	500	12/27/2024 19:27	ILY	A
Freon 113	ND	ND,P1	ug/L	500	130	SW846 8260D	500	12/27/2024 19:27	ILY	A
Isopropylbenzene	ND	ND,P1	ug/L	500	110	SW846 8260D	500	12/27/2024 19:27	ILY	A
Methyl acetate	ND	ND,8,P1	ug/L	1000	160	SW846 8260D	500	12/27/2024 19:27	ILY	A
Methyl cyclohexane	ND	ND,P1	ug/L	500	150	SW846 8260D	500	12/27/2024 19:27	ILY	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:27	ILY	A
Methylene Chloride	ND	ND,P1	ug/L	500	225	SW846 8260D	500	12/27/2024 19:27	ILY	A
mp-Xylene	1690	P1	ug/L	1000	260	SW846 8260D	500	12/27/2024 19:27	ILY	A
o-Xylene	504	P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:27	ILY	A
Styrene	188J	J,P1	ug/L	500	120	SW846 8260D	500	12/27/2024 19:27	ILY	A
Tetrachloroethene	ND	ND,P1	ug/L	500	175	SW846 8260D	500	12/27/2024 19:27	ILY	A
Toluene	2260	P1	ug/L	500	115	SW846 8260D	500	12/27/2024 19:27	ILY	A
Total Xylenes	2200	P1	ug/L	1500	330	SW846 8260D	500	12/27/2024 19:27	ILY	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	500	130	SW846 8260D	500	12/27/2024 19:27	ILY	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	500	145	SW846 8260D	500	12/27/2024 19:27	ILY	A
Trichloroethene	ND	ND,P1	ug/L	500	165	SW846 8260D	500	12/27/2024 19:27	ILY	A
Trichlorofluoromethane	ND	ND,P1	ug/L	500	120	SW846 8260D	500	12/27/2024 19:27	ILY	A
Vinyl Chloride	ND	ND,P1	ug/L	500	150	SW846 8260D	500	12/27/2024 19:27	ILY	A

Results

Client Sample ID	MW-36D	Collected	12/17/2024 11:10
Lab Sample ID	3392812005	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	12/27/2024 19:27	
4-Bromofluorobenzene	460-00-4	95.6%	79 – 114	12/27/2024 19:27	
Dibromofluoromethane	1868-53-7	102%	78 – 116	12/27/2024 19:27	
Toluene-d8	2037-26-5	104%	76 – 127	12/27/2024 19:27	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	51	3,P1	mg/L	5	5	SM2310B-2011	1	12/27/2024 13:47	RAG	I
Alkalinity, Total	358	4,P1	mg/L	5	5	SM2320B-2011	1	12/28/2024 04:25	JXK	I
Chloride	27.5	P1	mg/L	5.0	2.2	SW846 9056A	5	12/18/2024 19:00	J1W	I
Nitrate-N	30.7	P1	mg/L	2.5	0.80	SW846 9056A	5	12/18/2024 19:00	J1W	I
pH	8.17	5,P1	pH_Units			S4500HB-11	1	12/28/2024 04:25	JXK	I
Specific Conductance	3500	P1	umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	1290	P1	mg/L	20.0	14.0	SW846 9056A	20	12/19/2024 19:38	J1W	I
Total Dissolved Solids	2320	P1	mg/L	25	25	SM2540C-15	1	12/20/2024 17:15	RAG	I
Turbidity	3.4	P1	NTU	0.30	0.30	SM2130B-2011	1	12/19/2024 08:12	NPF	I

Results

Client Sample ID	MW-42	Collected	12/17/2024 15:00
Lab Sample ID	3392812006	Lab Receipt	12/18/2024 09:42

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1,S1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Aluminum, Total	0.78	P1,S1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Antimony, Dissolved	ND	ND,P1,S1	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Antimony, Total	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Arsenic, Dissolved	0.0050J	J,P1,S1	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Arsenic, Total	ND	ND,P1,S1	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:25	MSY	E1
Barium, Dissolved	0.012	P1,S1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Barium, Total	0.017	P1,S1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Beryllium, Dissolved	ND	ND,P1,S1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Beryllium, Total	ND	ND,P1,S1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Cadmium, Dissolved	ND	ND,P1,S1	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Cadmium, Total	ND	ND,P1,S1	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Calcium, Dissolved	45.9	P1,S1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Calcium, Total	52.3	P1,S1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Chromium, Dissolved	ND	ND,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Chromium, Total	ND	ND,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Cobalt, Dissolved	ND	ND,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:38	MSY	G1
Cobalt, Total	ND	ND,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Copper, Dissolved	ND	ND,P1,S1	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Copper, Total	ND	ND,P1,S1	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Iron, Dissolved	ND	ND,P1,S1	mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Iron, Total	1.0	P1,S1	mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Lead, Dissolved	ND	ND,P1,S1	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Lead, Total	0.0027J	J,P1,S1	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Magnesium, Dissolved	5.6	P1,S1	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Magnesium, Total	6.4	P1,S1	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Manganese, Dissolved	0.0033J	J,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Manganese, Total	0.029	P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Mercury, Dissolved	ND	ND,P1,S1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:24	AJN	G
Mercury, Total	ND	ND,P1,S1	mg/L	0.00050	0.00017	SW846 7470A	1	12/20/2024 12:05	AJN	E
Nickel, Dissolved	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Nickel, Total	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Potassium, Dissolved	3.9	P1,S1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Potassium, Total	4.1	P1,S1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Selenium, Dissolved	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Selenium, Total	0.0080J	J,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Silver, Dissolved	ND	ND,P1,S1	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Silver, Total	ND	ND,P1,S1	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Sodium, Dissolved	43.5	P1,S1	mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Sodium, Total	45.2	P1,S1	mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:16	MSY	E1

Results

Client Sample ID	MW-42	Collected	12/17/2024 15:00
Lab Sample ID	3392812006	Lab Receipt	12/18/2024 09:42

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Thallium, Dissolved	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Thallium, Total	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Vanadium, Dissolved	ND	ND,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Vanadium, Total	ND	ND,P1,S1	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:16	MSY	E1
Zinc, Dissolved	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:50	MSY	G1
Zinc, Total	ND	ND,P1,S1	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:16	MSY	E1

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
1,4-Dioxane	ND	ND,P1,S1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,6,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,4,5-Trichlorophenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,4,6-Trichlorophenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,4-Dichlorophenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,4-Dimethylphenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,4-Dinitrophenol	ND	ND,7,P1,S1	ug/L	6.0	4.3	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,4-Dinitrotoluene	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
2,6-Dinitrotoluene	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
2-Chloronaphthalene	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
2-Chlorophenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND,P1,S1	ug/L	6.0	3.0	SW846 8270E	1	12/26/2024 16:03	CGS	D
2-Methylnaphthalene	0.58J	J,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
2-Nitroaniline	ND	ND,P1,S1	ug/L	3.0	0.26	SW846 8270E	1	12/26/2024 16:03	CGS	D
2-Nitrophenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
3,3-Dichlorobenzidine	ND	ND,P1,S1	ug/L	16.0	8.5	SW846 8270E	1	12/26/2024 16:03	CGS	D
3-Nitroaniline	ND	ND,P1,S1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 16:03	CGS	D
4-Bromophenyl-phenylether	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
4-Chloro-3-methylphenol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
4-Chloroaniline	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
4-Chlorophenyl-phenylether	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
4-Nitroaniline	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
4-Nitrophenol	ND	ND,P1,S1	ug/L	3.0	1.1	SW846 8270E	1	12/26/2024 16:03	CGS	D
Acenaphthene	ND	ND,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Acenaphthylene	0.32J	J,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Acetophenone	ND	ND,P1,S1	ug/L	3.0	0.90	SW846 8270E	1	12/26/2024 16:03	CGS	D

Results

Client Sample ID	MW-42	Collected	12/17/2024 15:00
Lab Sample ID	3392812006	Lab Receipt	12/18/2024 09:42

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Anthracene	ND	ND,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Atrazine	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Benzaldehyde	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Benzo(a)anthracene	ND	ND,P1,S1	ug/L	1.5	0.28	SW846 8270E	1	12/26/2024 16:03	CGS	D
Benzo(a)pyrene	ND	ND,P1,S1	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 16:03	CGS	D
Benzo(b)fluoranthene	ND	ND,P1,S1	ug/L	1.5	0.30	SW846 8270E	1	12/26/2024 16:03	CGS	D
Benzo(g,h,i)perylene	ND	ND,P1,S1	ug/L	1.5	0.36	SW846 8270E	1	12/26/2024 16:03	CGS	D
Benzo(k)fluoranthene	ND	ND,P1,S1	ug/L	1.5	0.34	SW846 8270E	1	12/26/2024 16:03	CGS	D
Biphenyl	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
bis(2-Chloroethoxy)methane	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
bis(2-Chloroethyl)ether	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND,P1,S1	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 16:03	CGS	D
Butylbenzylphthalate	ND	ND,P1,S1	ug/L	3.0	0.31	SW846 8270E	1	12/26/2024 16:03	CGS	D
Caprolactam	ND	ND,P1,S1	ug/L	3.0	0.36	SW846 8270E	1	12/26/2024 16:03	CGS	D
Carbazole	0.48J	J,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Chrysene	ND	ND,P1,S1	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 16:03	CGS	D
Dibenzo(a,h)anthracene	ND	ND,P1,S1	ug/L	1.5	0.32	SW846 8270E	1	12/26/2024 16:03	CGS	D
Dibenzofuran	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Diethylphthalate	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Dimethylphthalate	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Di-n-Butylphthalate	ND	ND,P1,S1	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 16:03	CGS	D
Di-n-Octylphthalate	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Fluoranthene	ND	ND,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Fluorene	ND	ND,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Hexachlorobenzene	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Hexachlorobutadiene	ND	ND,P1,S1	ug/L	3.0	0.28	SW846 8270E	1	12/26/2024 16:03	CGS	D
Hexachlorocyclopentadiene	ND	ND,P1,S1	ug/L	3.0	0.43	SW846 8270E	1	12/26/2024 16:03	CGS	D
Hexachloroethane	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND,P1,S1	ug/L	1.5	0.31	SW846 8270E	1	12/26/2024 16:03	CGS	D
Isophorone	ND	ND,P1,S1	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 16:03	CGS	D
mp-Cresol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
Naphthalene	7.7	P1,S1	ug/L	1.5	0.65	SW846 8270E	1	12/26/2024 16:03	CGS	D
Nitrobenzene	ND	ND,P1,S1	ug/L	3.0	0.58	SW846 8270E	1	12/26/2024 16:03	CGS	D
N-Nitroso-di-n-propylamine	ND	ND,P1,S1	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
N-Nitrosodiphenylamine	ND	ND,P1,S1	ug/L	3.0	0.32	SW846 8270E	1	12/26/2024 16:03	CGS	D

Results

Client Sample ID	MW-42	Collected	12/17/2024 15:00
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
o-Cresol	ND	ND,P1,S1	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
Pentachlorophenol	ND	ND,P1,S1	ug/L	8.0	1.4	SW846 8270E	1	12/26/2024 16:03	CGS	D
Phenanthrene	ND	ND,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D
Phenol	ND	ND,P1,S1	ug/L	8.0	0.50	SW846 8270E	1	12/26/2024 16:03	CGS	D
Pyrene	ND	ND,P1,S1	ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 16:03	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	76.3%	23 – 131	12/26/2024 16:03	
2-Fluorobiphenyl	321-60-8	81.2%	24 – 116	12/26/2024 16:03	
2-Fluorophenol	367-12-4	43.8%	10 – 85	12/26/2024 16:03	
Nitrobenzene-d5	4165-60-0	77.9%	32 – 125	12/26/2024 16:03	
Phenol-d5	4165-62-2	33.4%	7 – 56	12/26/2024 16:03	
Terphenyl-d14	98904-43-9	81.4%	41 – 145	12/26/2024 16:03	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1,S1	ug/L	50.0	11.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND,P1,S1	ug/L	50.0	17.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,1,2-Trichloroethane	ND	ND,P1,S1	ug/L	50.0	16.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,1-Dichloroethane	ND	ND,P1,S1	ug/L	50.0	14.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,1-Dichloroethene	ND	ND,P1,S1	ug/L	50.0	14.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2,3-Trichlorobenzene	ND	ND,P1,S1	ug/L	100	46.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2,3-Trichloropropane	ND	ND,P1,S1	ug/L	100	30.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2,4-Trichlorobenzene	ND	ND,P1,S1	ug/L	100	41.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2,4-Trimethylbenzene	ND	ND,P1,S1	ug/L	50.0	12.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND,P1,S1	ug/L	350	75.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2-Dibromoethane	ND	ND,P1,S1	ug/L	50.0	14.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2-Dichlorobenzene	ND	ND,P1,S1	ug/L	50.0	19.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2-Dichloroethane	ND	ND,P1,S1	ug/L	50.0	16.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,2-Dichloropropane	ND	ND,P1,S1	ug/L	50.0	12.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,3,5-Trimethylbenzene	ND	ND,P1,S1	ug/L	50.0	10.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,3-Dichlorobenzene	ND	ND,P1,S1	ug/L	50.0	12.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
1,4-Dichlorobenzene	ND	ND,P1,S1	ug/L	50.0	13.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
2-Butanone	ND	ND,P1,S1	ug/L	500	90.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
2-Hexanone	ND	ND,P1,S1	ug/L	250	65.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1,S1	ug/L	250	75.0	SW846 8260D	50	12/27/2024 17:47	ILY	A

Results

Client Sample ID	MW-42	Collected	12/17/2024 15:00
Lab Sample ID	3392812006	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acetone	ND	ND,P1,S1	ug/L	500	155	SW846 8260D	50	12/27/2024 17:47	ILY	A
Benzene	ND	ND,P1,S1	ug/L	50.0	11.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Bromochloromethane	ND	ND,P1,S1	ug/L	50.0	16.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Bromodichloromethane	ND	ND,P1,S1	ug/L	50.0	13.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Bromoform	ND	ND,P1,S1	ug/L	50.0	20.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Bromomethane	ND	ND,P1,S1	ug/L	50.0	19.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Carbon Disulfide	ND	ND,P1,S1	ug/L	50.0	11.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Carbon Tetrachloride	ND	ND,P1,S1	ug/L	50.0	15.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Chlorobenzene	ND	ND,P1,S1	ug/L	50.0	9.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Chlorodibromomethane	ND	ND,P1,S1	ug/L	50.0	22.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Chloroethane	ND	ND,P1,S1	ug/L	50.0	16.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Chloroform	ND	ND,P1,S1	ug/L	50.0	10.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Chloromethane	ND	ND,P1,S1	ug/L	50.0	15.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
cis-1,2-Dichloroethene	ND	ND,P1,S1	ug/L	50.0	16.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
cis-1,3-Dichloropropene	ND	ND,P1,S1	ug/L	50.0	15.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Cyclohexane	ND	ND,P1,S1	ug/L	50.0	14.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Dichlorodifluoromethane	ND	ND,P1,S1	ug/L	50.0	16.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Ethylbenzene	ND	ND,P1,S1	ug/L	50.0	17.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Freon 113	ND	ND,P1,S1	ug/L	50.0	13.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Isopropylbenzene	ND	ND,P1,S1	ug/L	50.0	11.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Methyl acetate	ND	ND,8,P1,S1	ug/L	100	16.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Methyl cyclohexane	ND	ND,P1,S1	ug/L	50.0	15.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Methyl t-Butyl Ether	ND	ND,P1,S1	ug/L	50.0	16.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Methylene Chloride	ND	ND,P1,S1	ug/L	50.0	22.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
mp-Xylene	ND	ND,P1,S1	ug/L	100	26.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
o-Xylene	ND	ND,P1,S1	ug/L	50.0	16.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Styrene	ND	ND,P1,S1	ug/L	50.0	12.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Tetrachloroethene	ND	ND,P1,S1	ug/L	50.0	17.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Toluene	ND	ND,P1,S1	ug/L	50.0	11.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Total Xylenes	ND	ND,P1,S1	ug/L	150	33.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
trans-1,2-Dichloroethene	ND	ND,P1,S1	ug/L	50.0	13.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
trans-1,3-Dichloropropene	ND	ND,P1,S1	ug/L	50.0	14.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Trichloroethene	ND	ND,P1,S1	ug/L	50.0	16.5	SW846 8260D	50	12/27/2024 17:47	ILY	A
Trichlorofluoromethane	ND	ND,P1,S1	ug/L	50.0	12.0	SW846 8260D	50	12/27/2024 17:47	ILY	A
Vinyl Chloride	ND	ND,P1,S1	ug/L	50.0	15.0	SW846 8260D	50	12/27/2024 17:47	ILY	A

Results

Client Sample ID	MW-42	Collected	12/17/2024 15:00
Lab Sample ID	3392812006	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	12/27/2024 17:47	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	12/27/2024 17:47	
Dibromofluoromethane	1868-53-7	98.5%	78 – 116	12/27/2024 17:47	
Toluene-d8	2037-26-5	102%	76 – 127	12/27/2024 17:47	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	5	3,P1,S1	mg/L	5	5	SM2310B-2011	1	12/27/2024 13:47	RAG	I
Alkalinity, Total	210	4,P1,S1	mg/L	5	5	SM2320B-2011	1	12/28/2024 04:39	JXK	I
Chloride	1.4J	J,9,P1,S1	mg/L	2.0	0.88	SW846 9056A	2	12/18/2024 19:35	J1W	I
Nitrate-N	0.64J	J,P1,S1	mg/L	1.0	0.32	SW846 9056A	2	12/18/2024 19:35	J1W	I
pH	8.46	5,P1,S1	pH_Units			S4500HB-11	1	12/28/2024 04:39	JXK	I
Specific Conductance	416	P1,S1	umhos/cm	5	0.1	SW846 9050A	1	12/30/2024 17:12	LMD	I
Sulfate	14.6	10,11,P1,S1	mg/L	2.0	1.4	SW846 9056A	2	12/18/2024 19:35	J1W	I
Total Dissolved Solids	280	P1,S1	mg/L	25	25	SM2540C-15	1	12/20/2024 17:15	RAG	I
Turbidity	28	P1,S1	NTU	0.30	0.30	SM2130B-2011	1	12/19/2024 08:12	NPF	I

Results

Client Sample ID	TB-45	Collected	12/17/2024 00:00
Lab Sample ID	3392812007	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.93	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2,3-Trichloropropane	ND	ND,P1	ug/L	2.0	0.60	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	0.82	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2,4-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	1.5	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	0.28	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.38	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,3,5-Trimethylbenzene	ND	ND,P1	ug/L	1.0	0.20	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.25	SW846 8260D	1	12/27/2024 13:09	ILY	A
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/27/2024 13:09	ILY	A
2-Butanone	ND	ND,P1	ug/L	10.0	1.8	SW846 8260D	1	12/27/2024 13:09	ILY	A
2-Hexanone	ND	ND,P1	ug/L	5.0	1.3	SW846 8260D	1	12/27/2024 13:09	ILY	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	1.5	SW846 8260D	1	12/27/2024 13:09	ILY	A
Acetone	ND	ND,P1	ug/L	10.0	3.1	SW846 8260D	1	12/27/2024 13:09	ILY	A
Benzene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/27/2024 13:09	ILY	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/27/2024 13:09	ILY	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	0.27	SW846 8260D	1	12/27/2024 13:09	ILY	A
Bromoform	ND	ND,P1	ug/L	1.0	0.40	SW846 8260D	1	12/27/2024 13:09	ILY	A
Bromomethane	ND	ND,P1	ug/L	1.0	0.39	SW846 8260D	1	12/27/2024 13:09	ILY	A
Carbon Disulfide	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/27/2024 13:09	ILY	A
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/27/2024 13:09	ILY	A
Chlorobenzene	ND	ND,P1	ug/L	1.0	0.19	SW846 8260D	1	12/27/2024 13:09	ILY	A
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/27/2024 13:09	ILY	A
Chloroethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/27/2024 13:09	ILY	A
Chloroform	ND	ND,P1	ug/L	1.0	0.21	SW846 8260D	1	12/27/2024 13:09	ILY	A
Chloromethane	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/27/2024 13:09	ILY	A
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.32	SW846 8260D	1	12/27/2024 13:09	ILY	A
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.31	SW846 8260D	1	12/27/2024 13:09	ILY	A
Cyclohexane	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/27/2024 13:09	ILY	A
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/27/2024 13:09	ILY	A
Ethylbenzene	ND	ND,P1	ug/L	1.0	0.34	SW846 8260D	1	12/27/2024 13:09	ILY	A
Freon 113	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/27/2024 13:09	ILY	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	0.22	SW846 8260D	1	12/27/2024 13:09	ILY	A
Methyl acetate	ND	ND,8,P1	ug/L	2.0	0.32	SW846 8260D	1	12/27/2024 13:09	ILY	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/27/2024 13:09	ILY	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/27/2024 13:09	ILY	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	0.45	SW846 8260D	1	12/27/2024 13:09	ILY	A
mp-Xylene	ND	ND,P1	ug/L	2.0	0.52	SW846 8260D	1	12/27/2024 13:09	ILY	A
o-Xylene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/27/2024 13:09	ILY	A
Styrene	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/27/2024 13:09	ILY	A

Results

Client Sample ID	TB-45	Collected	12/17/2024 00:00
Lab Sample ID	3392812007	Lab Receipt	12/18/2024 09:42

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND,P1	ug/L	1.0	0.35	SW846 8260D	1	12/27/2024 13:09	ILY	A
Toluene	ND	ND,P1	ug/L	1.0	0.23	SW846 8260D	1	12/27/2024 13:09	ILY	A
Total Xylenes	ND	ND,P1	ug/L	3.0	0.66	SW846 8260D	1	12/27/2024 13:09	ILY	A
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	0.26	SW846 8260D	1	12/27/2024 13:09	ILY	A
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	0.29	SW846 8260D	1	12/27/2024 13:09	ILY	A
Trichloroethene	ND	ND,P1	ug/L	1.0	0.33	SW846 8260D	1	12/27/2024 13:09	ILY	A
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	0.24	SW846 8260D	1	12/27/2024 13:09	ILY	A
Vinyl Chloride	ND	ND,P1	ug/L	1.0	0.30	SW846 8260D	1	12/27/2024 13:09	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	12/27/2024 13:09	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	12/27/2024 13:09	
Dibromofluoromethane	1868-53-7	98.7%	78 – 116	12/27/2024 13:09	
Toluene-d8	2037-26-5	106%	76 – 127	12/27/2024 13:09	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392812001	MW-9D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392812002	MW-27S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392812003	MW-27D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392812004	MW-36S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3392812005	MW-36D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3392812006	MW-42	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3392812007	TB-45	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1358090	Prep Method	SW846 7470A
Date	12/20/2024 07:49	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Matrix Spike 3921304 (MS) 3392940001 (non-Project Sample) For QC Batch 1358090

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921305 (MSD) 3392940001 (non-Project Sample) For QC Batch 1358090

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0048	0.000021	0.0050	96	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0.000021	0.0050	95.2	70 - 130	RPD 0.83 (Max-20)	

Matrix Spike 3921306 (MS) 3392940003 (non-Project Sample) For QC Batch 1358090

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921307 (MSD) 3392940003 (non-Project Sample) For QC Batch 1358090

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0047	0.000029	0.0050	92.4	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0047	0.000029	0.0050	92.8	70 - 130	RPD 0.43 (Max-20)	

Method Blank 3921302 (MB) Created on 12/20/2024 06:14 For QC Batch 1358090

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3921303 (LCS) Created on 12/20/2024 06:14 For QC Batch 1358090

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0019		0.0020	96.5	85 - 115		

QUALITY CONTROL SAMPLES

METALS (cont.)

QC Batch

QC Batch	1358092	Prep Method	SW846 7470A
Date	12/20/2024 07:49	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Method Blank 3921311 (MB) Created on 12/20/2024 06:18 For QC Batch 1358092

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3921312 (LCS) Created on 12/20/2024 06:18 For QC Batch 1358092

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.0019		0.0020	92.5	85 - 115		

Matrix Spike 3921313 (MS) 3392812006 For QC Batch 1358092

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921314 (MSD) 3392812006 For QC Batch 1358092

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0045	0.000026	0.0050	89.3	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0046	0.000026	0.0050	92.1	70 - 130	RPD 3.07 (Max-20)	

QC Batch

QC Batch	1358105	Prep Method	SW846 3015A
Date	12/20/2024 11:38	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Matrix Spike 3921367 (MS) 3392316004 (non-Project Sample) For QC Batch 1358105

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921368 (MSD) 3392316004 (non-Project Sample) For QC Batch 1358105

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.1	0	1.10	102	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.1	0	1.10	101	75 - 125	RPD 0.87 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.12	0	0.22	52.8*	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.11	0	0.22	49.6*	75 - 125	RPD 6.15 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0.000560	0.11	105	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.12	0.000560	0.11	106	75 - 125	RPD 1.41 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0130	1.10	103	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.1	0.0130	1.10	102	75 - 125	RPD 0.78 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.23	0	0.22	104	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.23	0	0.22	103	75 - 125	RPD 0.72 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000560	0.11	99.8	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000560	0.11	99.2	75 - 125	RPD 0.60 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	452	455	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	453	455	1.10	NC	75 - 125	RPD 0.21 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.12	0.0026	0.11	103	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0026	0.11	102	75 - 125	RPD 0.86 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	101	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	101	75 - 125	RPD 0.05 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.2	0.0230	1.10	104	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0230	1.10	104	75 - 125	RPD 0.87 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	1.2	0.0640	1.10	101	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	1.2	0.0640	1.10	101	75 - 125	RPD 0.78 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.1	0	0.11	93.5	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.1	0	0.11	93.3	75 - 125	RPD 0.21 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	55.5	54.90	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	55.6	54.90	1.10	NC	75 - 125	RPD 0.22 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.16	0.0440	0.11	106	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.16	0.0440	0.11	108	75 - 125	RPD 0.95 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0.0056	1.10	99.3	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0.0056	1.10	99	75 - 125	RPD 0.30 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	26.4	3.20	22.20	105	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	26.4	3.20	22.20	105	75 - 125	RPD 0.12 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.4	0.27	1.10	105	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.4	0.27	1.10	105	75 - 125	RPD 0.14 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	108	75 - 125		
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	107	75 - 125	RPD 0.56 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	121	99	22.20	NC	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	121	99	22.20	NC	75 - 125	RPD 0.32 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.1	0	0.11	92.6	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.1	0	0.11	93.8	75 - 125	RPD 1.29 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.056	0	0.0560	101	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.056	0	0.0560	100	75 - 125	RPD 0.79 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.65	0.12	0.56	95.2	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.64	0.12	0.56	94.9	75 - 125	RPD 0.26 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Method Blank 3921365 (MB) Created on 12/20/2024 07:53 For QC Batch 1358105

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3921366 (LCS) Created on 12/20/2024 07:53 For QC Batch 1358105

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.2		1.10	104	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.18		0.22	81	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.12		0.11	106	80 - 120		
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	108	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.24		0.22	108	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	108	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.2		1.10	104	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	108	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	108	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	103	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	106	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	108	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	107	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	113	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	107	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	23		22.20	104	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	107	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.6		22.20	106	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	97.7	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.06		0.0560	107	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.58		0.56	105	80 - 120		

QC Batch

QC Batch	1358109	Prep Method	SW846 3015A
Date	12/20/2024 10:30	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Matrix Spike 3921373 (MS) 3392603001 (non-Project Sample) For QC Batch 1358109

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921374 (MSD) 3392603001 (non-Project Sample) For QC Batch 1358109

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Calcium, Total	7440-70-2	MS	89.7	88.80	1.10	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	89.5	88.80	1.10	NC	75 - 125	RPD 0.21 (Max-20)	
Iron, Total	7439-89-6	MS	1.1	0.01	1.10	102	75 - 125		
Iron, Total	7439-89-6	MSD	1.1	0.01	1.10	102	75 - 125	RPD 0.05 (Max-20)	
Magnesium, Total	7439-95-4	MS	43.5	42.50	1.10	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	43.6	42.50	1.10	NC	75 - 125	RPD 0.13 (Max-20)	
Manganese, Total	7439-96-5	MS	0.12	0	0.11	104	75 - 125		
Manganese, Total	7439-96-5	MSD	0.11	0	0.11	102	75 - 125	RPD 1.75 (Max-20)	
Potassium, Total	7440-09-7	MS	26.9	3.50	22.20	105	75 - 125		
Potassium, Total	7440-09-7	MSD	26.7	3.50	22.20	105	75 - 125	RPD 0.78 (Max-20)	
Sodium, Total	7440-23-5	MS	48.5	25.40	22.20	104	75 - 125		
Sodium, Total	7440-23-5	MSD	48.2	25.40	22.20	103	75 - 125	RPD 0.56 (Max-20)	

Method Blank 3921371 (MB) Created on 12/20/2024 07:55 For QC Batch 1358109

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3921372 (LCS) Created on 12/20/2024 07:55 For QC Batch 1358109

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	105	80 - 120		
Antimony, Total	7440-36-0	LCS	0.23		0.22	105	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.11		0.11	101	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	108	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	108	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	106	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	103	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	107	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	105	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	103	80 - 120		
Iron, Total	7439-89-6	LCS	1.2		1.10	105	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	108	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	108	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	107	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	106	80 - 120		
Potassium, Total	7440-09-7	LCS	22.8		22.20	103	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	107	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	107	80 - 120		
Sodium, Total	7440-23-5	LCS	23.4		22.20	105	80 - 120		
Thallium, Total	7440-28-0	LCS	0.1		0.11	93.4	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.06		0.0560	108	80 - 120		
Zinc, Total	7440-66-6	LCS	0.58		0.56	105	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1358115	Prep Method	SW846 3510C
Date	12/20/2024 09:55	Analysis Method	SW846 8270E
Tech.	EJH		

Associated Samples

3392812001

Matrix Spike 3921385 (MS) 3392443002 (non-Project Sample) For QC Batch 1358115

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	MS	26.9	0	50	53.9	18 - 124		
1,4-Dioxane	123-91-1	MS	22.6	0	50	45.2	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	MS	78.4	0	100	78.4	36 - 133		
2,4,5-Trichlorophenol	95-95-4	MS	83.3	0	100	83.3	44 - 148		
2,4,6-Trichlorophenol	88-06-2	MS	81.7	0	100	81.7	41 - 148		
2,4-Dichlorophenol	120-83-2	MS	76.8	0	100	76.8	44 - 142		
2,4-Dimethylphenol	105-67-9	MS	88.5	0	100	88.5	46 - 141		
2,4-Dinitrophenol	51-28-5	MS	72.7	0	100	72.7	21 - 140		
2,4-Dinitrotoluene	121-14-2	MS	39.6	0	50	79.3	49 - 138		
2,6-Dinitrotoluene	606-20-2	MS	42.5	0	50	84.9	49 - 136		
2-Chloronaphthalene	91-58-7	MS	32.6	0	50	65.2	27 - 125		
2-Chlorophenol	95-57-8	MS	74.5	0	100	74.5	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	MS	83.9	0	100	83.9	46 - 133		
2-Methylnaphthalene	91-57-6	MS	30.3	0	50	60.7	22 - 124		
2-Nitroaniline	88-74-4	MS	41	0	50	82	55 - 138		
2-Nitrophenol	88-75-5	MS	78.4	0	100	78.4	46 - 140		
3,3-Dichlorobenzidine	91-94-1	MS	55.1	0	100	55.1	38 - 115		
3-Nitroaniline	99-09-2	MS	39.3	0	50	78.7	60 - 123		
4-Bromophenyl-phenylether	101-55-3	MS	35.5	0	50	70.9	46 - 128		
4-Chloro-3-methylphenol	59-50-7	MS	81.3	0	100	81.3	46 - 144		
4-Chloroaniline	106-47-8	MS	26.9	0	50	53.9	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	MS	33.7	0	50	67.3	38 - 128		
4-Nitroaniline	100-01-6	MS	40.2	0	50	80.4	53 - 124		
4-Nitrophenol	100-02-7	MS	52	0	100	52	5 - 108		
Acenaphthene	83-32-9	MS	35.4	0	50	70.7	36 - 130		
Acenaphthylene	208-96-8	MS	32.2	0	50	64.3	39 - 130		
Acetophenone	98-86-2	MS	33.6	0	50	67.2	49 - 117		
Anthracene	120-12-7	MS	40.5	0	50	81	48 - 133		
Atrazine	1912-24-9	MS	40.2	0	50	80.4	44 - 149		
Benzaldehyde	100-52-7	MS	34.5	0	50	69	38 - 145		
Benzo(a)anthracene	56-55-3	MS	38.7	0	50	77.4	51 - 127		
Benzo(a)pyrene	50-32-8	MS	39.9	0	50	79.9	53 - 127		
Benzo(b)fluoranthene	205-99-2	MS	37.7	0	50	75.4	53 - 131		
Benzo(g,h,i)perylene	191-24-2	MS	44.5	0	50	89	54 - 131		
Benzo(k)fluoranthene	207-08-9	MS	36.9	0	50	73.9	52 - 130		
Biphenyl	92-52-4	MS	32.3	0	50	64.6	30 - 132		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
bis(2-Chloroethoxy)methane	111-91-1	MS	36.9	0	50	73.9	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	MS	36.1	0	50	72.1	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	MS	34.8	0	50	69.6	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	MS	33.8	0	50	67.6	41 - 145		
Butylbenzylphthalate	85-68-7	MS	37.5	0	50	74.9	50 - 137		
Caprolactam	105-60-2	MS	16.9	0	50	33.9	5 - 118		
Carbazole	86-74-8	MS	42	0	50	84	52 - 139		
Chrysene	218-01-9	MS	39.9	0	50	79.8	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	MS	42.5	0	50	85	56 - 130		
Dibenzofuran	132-64-9	MS	34.7	0	50	69.5	39 - 133		
Diethylphthalate	84-66-2	MS	38.1	0.50	50	75.2	45 - 132		
Dimethylphthalate	131-11-3	MS	37.6	0	50	75.3	44 - 131		
Di-n-Butylphthalate	84-74-2	MS	38.2	0	50	76.4	47 - 135		
Di-n-Octylphthalate	117-84-0	MS	39.7	0	50	79.4	35 - 141		
Fluoranthene	206-44-0	MS	40.1	0	50	80.3	49 - 132		
Fluorene	86-73-7	MS	36.5	0	50	73	42 - 131		
Hexachlorobenzene	118-74-1	MS	36.8	0	50	73.7	59 - 109		
Hexachlorobutadiene	87-68-3	MS	21	0	50	41.9	5 - 126		
Hexachlorocyclopentadiene	77-47-4	MS	13.8	0	50	27.6	5 - 97		
Hexachloroethane	67-72-1	MS	20.6	0	50	41.2	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	MS	42.4	0	50	84.7	55 - 126		
Isophorone	78-59-1	MS	35.8	0	50	71.7	45 - 129		
mp-Cresol	108394/106445	MS	72.5	0	100	72.5	28 - 128		
Naphthalene	91-20-3	MS	29.4	0	50	58.8	21 - 123		
Nitrobenzene	98-95-3	MS	35.7	0	50	71.4	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	MS	0	0	50	0*	46 - 133		ND
N-Nitrosodiphenylamine	86-30-6	MS	45.9	0	50	91.7	58 - 125		
o-Cresol	95-48-7	MS	72.9	0	100	72.9	34 - 136		
Pentachlorophenol	87-86-5	MS	79.9	0	100	79.9	41 - 149		
Phenanthrene	85-01-8	MS	39.5	0	50	78.9	46 - 131		
Phenol	108-95-2	MS	47.2	0	100	47.2	5 - 111		
Pyrene	129-00-0	MS	36.9	0	50	73.9	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	86.9	100	86.9	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	36.7	50	73.4	24 - 116	
2-Fluorophenol	367-12-4	MS	52.4	100	52.4	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	38.6	50	77.2	32 - 125	
Phenol-d5	4165-62-2	MS	42.3	100	42.3	7 - 56	
Terphenyl-d14	98904-43-9	MS	32.2	50	64.4	41 - 145	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

Duplicate 3921386 (DUP) 3392443003 (non-Project Sample) For QC Batch 1358115

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	DUP	0	0	RPD	0	(Max-30)	ND
1,4-Dioxane	123-91-1	DUP	0	0	RPD	0	(Max-30)	ND
2,3,4,6-Tetrachlorophenol	58-90-2	DUP	0	0	RPD	0	(Max-30)	ND
2,4,5-Trichlorophenol	95-95-4	DUP	0	0	RPD	0	(Max-23)	ND
2,4,6-Trichlorophenol	88-06-2	DUP	0	0	RPD	0	(Max-23)	ND
2,4-Dichlorophenol	120-83-2	DUP	0	0	RPD	0	(Max-30)	ND
2,4-Dimethylphenol	105-67-9	DUP	0	0	RPD	0	(Max-30)	ND
2,4-Dinitrophenol	51-28-5	DUP	0	0	RPD	0	(Max-30)	ND
2,4-Dinitrotoluene	121-14-2	DUP	0	0	RPD	0	(Max-22)	ND
2,6-Dinitrotoluene	606-20-2	DUP	0	0	RPD	0	(Max-30)	ND
2-Chloronaphthalene	91-58-7	DUP	0	0	RPD	0	(Max-30)	ND
2-Chlorophenol	95-57-8	DUP	0	0	RPD	0	(Max-30)	ND
2-Methyl-4,6-dinitrophenol	534-52-1	DUP	0	0	RPD	0	(Max-30)	ND
2-Methylnaphthalene	91-57-6	DUP	0	0	RPD	0	(Max-30)	ND
2-Nitroaniline	88-74-4	DUP	0	0	RPD	0	(Max-30)	ND
2-Nitrophenol	88-75-5	DUP	0	0	RPD	0	(Max-30)	ND
3,3-Dichlorobenzidine	91-94-1	DUP	0	0	RPD	0	(Max-30)	ND
3-Nitroaniline	99-09-2	DUP	0	0	RPD	0	(Max-30)	ND
4-Bromophenyl-phenylether	101-55-3	DUP	0	0	RPD	0	(Max-30)	ND
4-Chloro-3-methylphenol	59-50-7	DUP	0	0	RPD	0	(Max-30)	ND
4-Chloroaniline	106-47-8	DUP	0	0	RPD	0	(Max-30)	ND
4-Chlorophenyl-phenylether	7005-72-3	DUP	0	0	RPD	0	(Max-30)	ND
4-Nitroaniline	100-01-6	DUP	0	0	RPD	0	(Max-30)	ND
4-Nitrophenol	100-02-7	DUP	0	0	RPD	0	(Max-30)	ND
Acenaphthene	83-32-9	DUP	0	0	RPD	0	(Max-30)	ND
Acenaphthylene	208-96-8	DUP	0	0	RPD	0	(Max-30)	ND
Acetophenone	98-86-2	DUP	0	0	RPD	0	(Max-30)	ND
Anthracene	120-12-7	DUP	0	0	RPD	0	(Max-30)	ND
Atrazine	1912-24-9	DUP	0	0	RPD	0	(Max-30)	ND
Benzaldehyde	100-52-7	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(a)anthracene	56-55-3	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(a)pyrene	50-32-8	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(b)fluoranthene	205-99-2	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(g,h,i)perylene	191-24-2	DUP	0	0	RPD	0	(Max-30)	ND
Benzo(k)fluoranthene	207-08-9	DUP	0	0	RPD	0	(Max-30)	ND
Biphenyl	92-52-4	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Chloroethoxy)methane	111-91-1	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Chloroethyl)ether	111-44-4	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Chloroisopropyl)ether	108-60-1	DUP	0	0	RPD	0	(Max-30)	ND
bis(2-Ethylhexyl)phthalate	117-81-7	DUP	0	0	RPD	0	(Max-30)	ND
Butylbenzylphthalate	85-68-7	DUP	0	0	RPD	0	(Max-30)	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
Caprolactam	105-60-2	DUP	0	0	RPD	0	(Max-30)	ND
Carbazole	86-74-8	DUP	0	0	RPD	0	(Max-30)	ND
Chrysene	218-01-9	DUP	0	0	RPD	0	(Max-30)	ND
Dibenzo(a,h)anthracene	53-70-3	DUP	0	0	RPD	0	(Max-30)	ND
Dibenzofuran	132-64-9	DUP	0	0	RPD	0	(Max-30)	ND
Diethylphthalate	84-66-2	DUP	0	0	RPD	0	(Max-30)	ND
Dimethylphthalate	131-11-3	DUP	0	0	RPD	0	(Max-30)	ND
Di-n-Butylphthalate	84-74-2	DUP	0	0	RPD	0	(Max-30)	ND
Di-n-Octylphthalate	117-84-0	DUP	0	0	RPD	0	(Max-30)	ND
Fluoranthene	206-44-0	DUP	0	0	RPD	0	(Max-30)	ND
Fluorene	86-73-7	DUP	0	0	RPD	0	(Max-30)	ND
Hexachlorobenzene	118-74-1	DUP	0	0	RPD	0	(Max-21)	ND
Hexachlorobutadiene	87-68-3	DUP	0	0	RPD	0	(Max-30)	ND
Hexachlorocyclopentadiene	77-47-4	DUP	0	0	RPD	0	(Max-30)	ND
Hexachloroethane	67-72-1	DUP	0	0	RPD	0	(Max-30)	ND
Indeno(1,2,3-cd)pyrene	193-39-5	DUP	0	0	RPD	0	(Max-30)	ND
Isophorone	78-59-1	DUP	0	0	RPD	0	(Max-30)	ND
mp-Cresol	108394/106445	DUP	0	0	RPD	0	(Max-20)	ND
Naphthalene	91-20-3	DUP	0	0	RPD	0	(Max-30)	ND
Nitrobenzene	98-95-3	DUP	0	0	RPD	0	(Max-19)	ND
N-Nitroso-di-n-propylamine	621-64-7	DUP	0	0	RPD	0	(Max-30)	ND
N-Nitrosodiphenylamine	86-30-6	DUP	0	0	RPD	0	(Max-30)	ND
o-Cresol	95-48-7	DUP	0	0	RPD	0	(Max-23)	ND
Pentachlorophenol	87-86-5	DUP	0	0	RPD	0	(Max-28)	ND
Phenanthrene	85-01-8	DUP	0	0	RPD	0	(Max-30)	ND
Phenol	108-95-2	DUP	0	0	RPD	0	(Max-30)	ND
Pyrene	129-00-0	DUP	0	0	RPD	0	(Max-30)	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	DUP	86.7	100	86.7	23 - 131	
2-Fluorobiphenyl	321-60-8	DUP	39.5	50	79	24 - 116	
2-Fluorophenol	367-12-4	DUP	54.2	100	54.2	10 - 85	
Nitrobenzene-d5	4165-60-0	DUP	41.9	50	83.8	32 - 125	
Phenol-d5	4165-62-2	DUP	44	100	44	7 - 56	
Terphenyl-d14	98904-43-9	DUP	35.2	50	70.5	41 - 145	

Method Blank 3921383 (MB) Created on 12/20/2024 08:05 For QC Batch 1358115

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	79.9	100	79.9	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	43.4	50	86.8	24 - 116	
2-Fluorophenol	367-12-4	BLK	50.4	100	50.4	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	46.7	50	93.4	32 - 125	
Phenol-d5	4165-62-2	BLK	48.5	100	48.5	7 - 56	
Terphenyl-d14	98904-43-9	BLK	49.6	50	99.1	41 - 145	

Lab Control Standard 3921384 (LCS) Created on 12/20/2024 08:05 For QC Batch 1358115

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	26.6		50	53.2	18 - 124		
1,4-Dioxane	123-91-1	LCS	23.8		50	47.6	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	88.7		100	88.7	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	92.7		100	92.7	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	91.3		100	91.3	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	85.1		100	85.1	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	94.3		100	94.3	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	89.2		100	89.2	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	41		50	81.9	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	44.4		50	88.7	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	32.8		50	65.7	27 - 125		
2-Chlorophenol	95-57-8	LCS	78.1		100	78.1	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	99.4		100	99.4	46 - 133		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Methylnaphthalene	91-57-6	LCS	30.8		50	61.5	22 - 124		
2-Nitroaniline	88-74-4	LCS	43.1		50	86.2	55 - 138		
2-Nitrophenol	88-75-5	LCS	85.6		100	85.6	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	67.5		100	67.5	38 - 115		
3-Nitroaniline	99-09-2	LCS	40.6		50	81.3	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	38.9		50	77.7	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	86.6		100	86.6	46 - 144		
4-Chloroaniline	106-47-8	LCS	29.7		50	59.4	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	35.7		50	71.5	38 - 128		
4-Nitroaniline	100-01-6	LCS	40.5		50	81	53 - 124		
4-Nitrophenol	100-02-7	LCS	61.5		100	61.5	5 - 108		
Acenaphthene	83-32-9	LCS	36.6		50	73.3	36 - 130		
Acenaphthylene	208-96-8	LCS	33		50	66	39 - 130		
Acetophenone	98-86-2	LCS	33.2		50	66.5	49 - 117		
Anthracene	120-12-7	LCS	42.4		50	84.8	48 - 133		
Atrazine	1912-24-9	LCS	44		50	88.1	44 - 149		
Benzaldehyde	100-52-7	LCS	35.3		50	70.6	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	40.8		50	81.6	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	42.3		50	84.7	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	40.5		50	81	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	48.1		50	96.2	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	39.1		50	78.2	52 - 130		
Biphenyl	92-52-4	LCS	32.4		50	64.7	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	39.5		50	79	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	36.1		50	72.2	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	35.1		50	70.2	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	40.3		50	80.6	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	42		50	84.1	50 - 137		
Caprolactam	105-60-2	LCS	17.6		50	35.2	5 - 118		
Carbazole	86-74-8	LCS	42.6		50	85.1	52 - 139		
Chrysene	218-01-9	LCS	42.1		50	84.3	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	46.4		50	92.7	56 - 130		
Dibenzofuran	132-64-9	LCS	36		50	72.1	39 - 133		
Diethylphthalate	84-66-2	LCS	40.7		50	81.3	45 - 132		
Dimethylphthalate	131-11-3	LCS	39.7		50	79.5	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	44.9		50	89.8	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	46.3		50	92.7	35 - 141		
Fluoranthene	206-44-0	LCS	42.3		50	84.5	49 - 132		
Fluorene	86-73-7	LCS	38.1		50	76.2	42 - 131		
Hexachlorobenzene	118-74-1	LCS	39.7		50	79.3	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	21		50	42	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	12.9		50	25.8	5 - 97		
Hexachloroethane	67-72-1	LCS	19.6		50	39.2	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	45.9		50	91.8	55 - 126		
Isophorone	78-59-1	LCS	38		50	76	45 - 129		
mp-Cresol	108394/106445	LCS	75.6		100	75.6	28 - 128		
Naphthalene	91-20-3	LCS	30.2		50	60.4	21 - 123		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrobenzene	98-95-3	LCS	36.7		50	73.4	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	0		50	0*	46 - 133		ND
N-Nitrosodiphenylamine	86-30-6	LCS	49.1		50	98.2	58 - 125		
o-Cresol	95-48-7	LCS	74.3		100	74.3	34 - 136		
Pentachlorophenol	87-86-5	LCS	92.4		100	92.4	41 - 149		
Phenanthrene	85-01-8	LCS	41.1		50	82.1	46 - 131		
Phenol	108-95-2	LCS	48.1		100	48.1	5 - 111		
Pyrene	129-00-0	LCS	38.7		50	77.4	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	99.4	100	99.4	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	40	50	80.1	24 - 116	
2-Fluorophenol	367-12-4	LCS	59.2	100	59.2	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	42.9	50	85.9	32 - 125	
Phenol-d5	4165-62-2	LCS	45.6	100	45.6	7 - 56	
Terphenyl-d14	98904-43-9	LCS	45.4	50	90.8	41 - 145	

QC Batch

QC Batch	1359701	Prep Method	SW846 3510C
Date	12/23/2024 23:25	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3392812003 3392812005 3392812006

Matrix Spike 3922508 (MS) 3391292001 (non-Project Sample) For QC Batch 1359701

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3922509 (MSD) 3391292001 (non-Project Sample) For QC Batch 1359701

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2,4,5-Trichlorophenol	95-95-4	MS	373	0	500	74.6	44 - 148		
2,4,5-Trichlorophenol	95-95-4	MSD	501	0	500	100	44 - 148	RPD 29.30* (Max-23)	
2,4,6-Trichlorophenol	88-06-2	MS	342	0	500	68.3	41 - 148		
2,4,6-Trichlorophenol	88-06-2	MSD	468	0	500	93.6	41 - 148	RPD 31.20* (Max-23)	
2,4-Dinitrotoluene	121-14-2	MS	197	0	250	78.9	49 - 138		
2,4-Dinitrotoluene	121-14-2	MSD	256	0	250	103	49 - 138	RPD 26.10* (Max-22)	
Hexachlorobenzene	118-74-1	MS	155	0	250	61.8	59 - 109		
Hexachlorobenzene	118-74-1	MSD	217	0	250	86.8	59 - 109	RPD 33.60* (Max-21)	
Hexachlorobutadiene	87-68-3	MS	79.6	0	250	31.8	5 - 126		
Hexachlorobutadiene	87-68-3	MSD	116	0	250	46.3	5 - 126	RPD 37* (Max-30)	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Hexachloroethane	67-72-1	MS	57.6	0	250	23.1	5 - 111		
Hexachloroethane	67-72-1	MSD	86.4	0	250	34.6	5 - 111	RPD 40* (Max-30)	
mp-Cresol	108394/106445	MS	256	0	500	51.2	28 - 128		
mp-Cresol	108394/106445	MSD	362	0	500	72.4	28 - 128	RPD 34.30* (Max-20)	
Naphthalene	91-20-3	MS	110	4.50	250	42.1	21 - 123		
Naphthalene	91-20-3	MSD	157	4.50	250	60.8	21 - 123	RPD 35.10* (Max-30)	
Nitrobenzene	98-95-3	MS	108	0	250	43.2	41 - 128		
Nitrobenzene	98-95-3	MSD	155	0	250	62	41 - 128	RPD 35.70* (Max-19)	
o-Cresol	95-48-7	MS	242	0	500	48.4	34 - 136		
o-Cresol	95-48-7	MSD	351	0	500	70.2	34 - 136	RPD 36.70* (Max-23)	
Pentachlorophenol	87-86-5	MS	325	0	500	65	41 - 149		
Pentachlorophenol	87-86-5	MSD	450	0	500	90.1	41 - 149	RPD 32.40* (Max-28)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	367	500	73.4	23 - 131	
2,4,6-Tribromophenol	118-79-6	MSD	515	500	103	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	150	250	59.8	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	205	250	82.2	24 - 116	
2-Fluorophenol	367-12-4	MS	181	500	36.1	10 - 85	
2-Fluorophenol	367-12-4	MSD	275	500	55.1	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	137	250	54.8	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	201	250	80.2	32 - 125	
Phenol-d5	4165-62-2	MS	131	500	26.2	7 - 56	
Phenol-d5	4165-62-2	MSD	188	500	37.6	7 - 56	
Terphenyl-d14	98904-43-9	MS	171	250	68.5	41 - 145	
Terphenyl-d14	98904-43-9	MSD	243	250	97.3	41 - 145	

Method Blank 3922506 (MB) Created on 12/23/2024 13:04 For QC Batch 1359701

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	83.7	100	83.7	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	39.4	50	78.8	24 - 116	
2-Fluorophenol	367-12-4	BLK	55.5	100	55.5	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	38.6	50	77.2	32 - 125	
Phenol-d5	4165-62-2	BLK	39	100	39	7 - 56	
Terphenyl-d14	98904-43-9	BLK	46.7	50	93.4	41 - 145	

Lab Control Standard 3922507 (LCS) Created on 12/23/2024 13:04 For QC Batch 1359701

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	37		50	74	18 - 124		
1,4-Dioxane	123-91-1	LCS	23.3		50	46.6	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	111		100	111	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	104		100	104	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	99.1		100	99.1	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	92.4		100	92.4	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	89.5		100	89.5	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	71.4		100	71.4	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	54		50	108	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	51		50	102	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	39.8		50	79.6	27 - 125		
2-Chlorophenol	95-57-8	LCS	79.2		100	79.2	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	83.4		100	83.4	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	38.5		50	77	22 - 124		
2-Nitroaniline	88-74-4	LCS	48.6		50	97.2	55 - 138		
2-Nitrophenol	88-75-5	LCS	87.1		100	87.1	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	60.3		100	60.3	38 - 115		
3-Nitroaniline	99-09-2	LCS	44		50	88	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	50.2		50	100	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	90.4		100	90.4	46 - 144		
4-Chloroaniline	106-47-8	LCS	32.2		50	64.4	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	52.4		50	105	38 - 128		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
4-Nitroaniline	100-01-6	LCS	49.2		50	98.3	53 - 124		
4-Nitrophenol	100-02-7	LCS	50.2		100	50.2	5 - 108		
Acenaphthene	83-32-9	LCS	41.7		50	83.5	36 - 130		
Acenaphthylene	208-96-8	LCS	37.9		50	75.7	39 - 130		
Acetophenone	98-86-2	LCS	38.1		50	76.2	49 - 117		
Anthracene	120-12-7	LCS	48.2		50	96.4	48 - 133		
Atrazine	1912-24-9	LCS	54.7		50	109	44 - 149		
Benzaldehyde	100-52-7	LCS	40.4		50	80.8	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	47.7		50	95.5	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	48		50	96.1	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	52.4		50	105	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	44.9		50	89.9	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	50.4		50	101	52 - 130		
Biphenyl	92-52-4	LCS	38.3		50	76.6	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	46.2		50	92.5	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	40.2		50	80.5	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	35.5		50	71	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	45.6		50	91.2	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	49.9		50	99.8	50 - 137		
Caprolactam	105-60-2	LCS	19.3		50	38.7	5 - 118		
Carbazole	86-74-8	LCS	47		50	94	52 - 139		
Chrysene	218-01-9	LCS	49.4		50	98.7	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	46.3		50	92.5	56 - 130		
Dibenzofuran	132-64-9	LCS	44		50	88.1	39 - 133		
Diethylphthalate	84-66-2	LCS	54.4		50	109	45 - 132		
Dimethylphthalate	131-11-3	LCS	50.6		50	101	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	48.6		50	97.1	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	47.2		50	94.4	35 - 141		
Fluoranthene	206-44-0	LCS	51.2		50	102	49 - 132		
Fluorene	86-73-7	LCS	48		50	95.9	42 - 131		
Hexachlorobenzene	118-74-1	LCS	46.8		50	93.7	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	26		50	51.9	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	16.4		50	32.9	5 - 97		
Hexachloroethane	67-72-1	LCS	18.6		50	37.1	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	42.8		50	85.5	55 - 126		
Isophorone	78-59-1	LCS	42.2		50	84.4	45 - 129		
mp-Cresol	108394/106445	LCS	75.5		100	75.5	28 - 128		
Naphthalene	91-20-3	LCS	32.4		50	64.8	21 - 123		
Nitrobenzene	98-95-3	LCS	32		50	64.1	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	42.7		50	85.4	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	55.5		50	111	58 - 125		
o-Cresol	95-48-7	LCS	73.7		100	73.7	34 - 136		
Pentachlorophenol	87-86-5	LCS	83.6		100	83.6	41 - 149		
Phenanthrene	85-01-8	LCS	46.1		50	92.2	46 - 131		
Phenol	108-95-2	LCS	44.5		100	44.5	5 - 111		
Pyrene	129-00-0	LCS	49		50	98.1	48 - 134		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	103	100	103	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	43.9	50	87.7	24 - 116	
2-Fluorophenol	367-12-4	LCS	61.1	100	61.1	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	41.6	50	83.2	32 - 125	
Phenol-d5	4165-62-2	LCS	42.5	100	42.5	7 - 56	
Terphenyl-d14	98904-43-9	LCS	55.1	50	110	41 - 145	

QC Batch

QC Batch	1359732	Prep Method	SW846 3510C
Date	12/23/2024 16:15	Analysis Method	SW846 8270E
Tech.	BMP		

Associated Samples

3392812002 3392812004

Method Blank 3922595 (MB) Created on 12/23/2024 14:20 For QC Batch 1359732

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	56.2	100	56.2	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	38.1	50	76.2	24 - 116	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Fluorophenol	367-12-4	BLK	54.5	100	54.5	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	40	50	80.1	32 - 125	
Phenol-d5	4165-62-2	BLK	44	100	44	7 - 56	
Terphenyl-d14	98904-43-9	BLK	38.1	50	76.3	41 - 145	

Lab Control Standard 3922596 (LCS) Created on 12/23/2024 14:20 For QC Batch 1359732

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	31.6		50	63.3	18 - 124		
1,4-Dioxane	123-91-1	LCS	27.2		50	54.3	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	108		100	108	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	105		100	105	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	103		100	103	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	100		100	100	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	99.8		100	99.8	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	85.8		100	85.8	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	55.7		50	111	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	53.8		50	108	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	37.2		50	74.4	27 - 125		
2-Chlorophenol	95-57-8	LCS	89.2		100	89.2	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	90.3		100	90.3	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	36.2		50	72.3	22 - 124		
2-Nitroaniline	88-74-4	LCS	50.7		50	101	55 - 138		
2-Nitrophenol	88-75-5	LCS	94.9		100	94.9	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	52.7		100	52.7	38 - 115		
3-Nitroaniline	99-09-2	LCS	43.3		50	86.7	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	46.4		50	92.8	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	99.1		100	99.1	46 - 144		
4-Chloroaniline	106-47-8	LCS	30.9		50	61.9	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	48.2		50	96.4	38 - 128		
4-Nitroaniline	100-01-6	LCS	51.4		50	103	53 - 124		
4-Nitrophenol	100-02-7	LCS	56.9		100	56.9	5 - 108		
Acenaphthene	83-32-9	LCS	41.7		50	83.4	36 - 130		
Acenaphthylene	208-96-8	LCS	37.3		50	74.6	39 - 130		
Acetophenone	98-86-2	LCS	44.9		50	89.8	49 - 117		
Anthracene	120-12-7	LCS	47.2		50	94.4	48 - 133		
Atrazine	1912-24-9	LCS	55.1		50	110	44 - 149		
Benzaldehyde	100-52-7	LCS	51.4		50	103	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	50.3		50	101	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	49.7		50	99.4	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	53.3		50	107	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	44.4		50	88.9	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	50.8		50	102	52 - 130		
Biphenyl	92-52-4	LCS	36		50	72	30 - 132		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
bis(2-Chloroethoxy)methane	111-91-1	LCS	51.6		50	103	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	47.1		50	94.1	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	40.6		50	81.3	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	51.5		50	103	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	53.7		50	107	50 - 137		
Caprolactam	105-60-2	LCS	22		50	43.9	5 - 118		
Carbazole	86-74-8	LCS	48		50	96.1	52 - 139		
Chrysene	218-01-9	LCS	50.3		50	101	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	46.7		50	93.3	56 - 130		
Dibenzofuran	132-64-9	LCS	42.9		50	85.7	39 - 133		
Diethylphthalate	84-66-2	LCS	55.3		50	111	45 - 132		
Dimethylphthalate	131-11-3	LCS	52.2		50	104	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	51.7		50	103	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	54.7		50	109	35 - 141		
Fluoranthene	206-44-0	LCS	51.3		50	103	49 - 132		
Fluorene	86-73-7	LCS	46.7		50	93.4	42 - 131		
Hexachlorobenzene	118-74-1	LCS	46.2		50	92.5	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	29.6		50	59.3	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	14.4		50	28.9	5 - 97		
Hexachloroethane	67-72-1	LCS	21.8		50	43.5	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	43.6		50	87.1	55 - 126		
Isophorone	78-59-1	LCS	48		50	96	45 - 129		
mp-Cresol	108394/106445	LCS	87.6		100	87.6	28 - 128		
Naphthalene	91-20-3	LCS	32.7		50	65.4	21 - 123		
Nitrobenzene	98-95-3	LCS	37.2		50	74.3	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	49.9		50	99.8	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	56.9		50	114	58 - 125		
o-Cresol	95-48-7	LCS	83.6		100	83.6	34 - 136		
Pentachlorophenol	87-86-5	LCS	102		100	102	41 - 149		
Phenanthrene	85-01-8	LCS	46.2		50	92.4	46 - 131		
Phenol	108-95-2	LCS	52		100	52	5 - 111		
Pyrene	129-00-0	LCS	50.2		50	100	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	96.4	100	96.4	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	42	50	84	24 - 116	
2-Fluorophenol	367-12-4	LCS	69.5	100	69.5	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	46.2	50	92.5	32 - 125	
Phenol-d5	4165-62-2	LCS	49	100	49	7 - 56	
Terphenyl-d14	98904-43-9	LCS	49.9	50	99.8	41 - 145	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1361065	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3392812004 3392812005 3392812006 3392812007

Matrix Spike 3923657 (MS) 3393101002 (non-Project Sample) For QC Batch 1361065

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3923658 (MSD) 3393101002 (non-Project Sample) For QC Batch 1361065

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1-Dichloroethene	75-35-4	MS	449	0	400	112	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	487	0	400	122	63 - 128	RPD 8.08 (Max-21)	
1,2-Dichloroethane	107-06-2	MS	399	0	400	99.7	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	431	0	400	108	70 - 133	RPD 7.69 (Max-19)	
1,4-Dichlorobenzene	106-46-7	MS	420	0	400	105	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	418	0	400	104	81 - 116	RPD 0.53 (Max-15)	
2-Butanone	78-93-3	MS	1900	0	2000	95	50 - 152		
2-Butanone	78-93-3	MSD	2040	0	2000	102	50 - 152	RPD 7.35 (Max-16)	
Benzene	71-43-2	MS	413	0	400	103	80 - 124		
Benzene	71-43-2	MSD	451	0	400	113	80 - 124	RPD 8.60 (Max-26)	
Carbon Tetrachloride	56-23-5	MS	395	0	400	98.8	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	425	0	400	106	62 - 132	RPD 7.30 (Max-17)	
Chlorobenzene	108-90-7	MS	418	0	400	104	85 - 117		
Chlorobenzene	108-90-7	MSD	443	0	400	111	85 - 117	RPD 5.93 (Max-15)	
Chloroform	67-66-3	MS	410	0	400	102	78 - 122		
Chloroform	67-66-3	MSD	446	0	400	112	78 - 122	RPD 8.49 (Max-16)	
Tetrachloroethene	127-18-4	MS	421	0	400	105	72 - 124		
Tetrachloroethene	127-18-4	MSD	450	0	400	113	72 - 124	RPD 6.80 (Max-38)	
Trichloroethene	79-01-6	MS	407	0	400	102	77 - 124		
Trichloroethene	79-01-6	MSD	441	0	400	110	77 - 124	RPD 8.05 (Max-18)	
Vinyl Chloride	75-01-4	MS	448	0	400	112	27 - 138		
Vinyl Chloride	75-01-4	MSD	484	0	400	121	27 - 138	RPD 7.84 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	601	600	100	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	644	600	107	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	575	600	95.9	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	535	600	89.2	79 - 114	
Dibromofluoromethane	1868-53-7	MS	579	600	96.4	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	612	600	102	78 - 116	
Toluene-d8	2037-26-5	MS	579	600	96.5	76 - 127	
Toluene-d8	2037-26-5	MSD	590	600	98.3	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Method Blank 3923604 (MB) Created on 12/27/2024 12:03 For QC Batch 1361065

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.9	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	28.6	30	95.4	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.4	30	98.1	78 - 116	
Toluene-d8	2037-26-5	BLK	31	30	103	76 - 127	

Lab Control Standard 3923605 (LCS) Created on 12/27/2024 12:03 For QC Batch 1361065

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	16.7		20	83.3	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	25.2		20	126	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	22.6		20	113	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	17.3		20	86.6	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	16.4		20	81.8	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	18.2		20	91.1	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	25.6		20	128	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	19.1		20	95.4	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	17.3		20	86.3	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	25.3		20	127	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	23.6		20	118	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	18		20	90.1	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.3		20	96.7	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	18.7		20	93.4	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	17.3		20	86.6	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	17.1		20	85.5	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	17.5		20	87.4	81 - 116		
2-Butanone	78-93-3	LCS	128		100	128	50 - 152		
2-Hexanone	591-78-6	LCS	132		100	132	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	130		100	130	71 - 146		
Acetone	67-64-1	LCS	127		100	127	40 - 151		
Benzene	71-43-2	LCS	16.9		20	84.5	80 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	20.6		20	103	73 - 117		
Bromodichloromethane	75-27-4	LCS	20.5		20	102	79 - 126		
Bromoform	75-25-2	LCS	23.9		20	119	70 - 123		
Bromomethane	74-83-9	LCS	12.6		20	62.8	45 - 148		
Carbon Disulfide	75-15-0	LCS	16.1		20	80.6	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	14.1		20	70.7	62 - 132		
Chlorobenzene	108-90-7	LCS	17.5		20	87.7	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.8		20	98.9	77 - 122		
Chloroethane	75-00-3	LCS	14.2		20	70.8	51 - 142		
Chloroform	67-66-3	LCS	17.7		20	88.4	78 - 122		
Chloromethane	74-87-3	LCS	12.6		20	63.1	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	18.1		20	90.3	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.2		20	91.2	81 - 121		
Cyclohexane	110-82-7	LCS	14.6		20	73.1	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	9.5		20	47.4	17 - 166		
Ethylbenzene	100-41-4	LCS	16.6		20	83.1	80 - 124		
Freon 113	76-13-1	LCS	15.4		20	77	50 - 130		
Isopropylbenzene	98-82-8	LCS	18.4		20	92.1	73 - 129		
Methyl acetate	79-20-9	LCS	27.1		20	135*	70 - 130		
Methyl cyclohexane	108-87-2	LCS	14.4		20	72	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	22.4		20	112	69 - 115		
Methylene Chloride	75-09-2	LCS	19.6		20	97.8	76 - 121		
mp-Xylene	108383/106423	LCS	33		40	82.5	79 - 125		
o-Xylene	95-47-6	LCS	16.9		20	84.6	79 - 124		
Styrene	100-42-5	LCS	16.4		20	81.8	79 - 123		
Tetrachloroethene	127-18-4	LCS	16.4		20	81.9	72 - 124		
Toluene	108-88-3	LCS	17.3		20	86.6	80 - 125		
Total Xylenes	1330-20-7	LCS	49.9		60	83.2	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	16.5		20	82.7	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.5		20	97.3	78 - 126		
Trichloroethene	79-01-6	LCS	15.6		20	78	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	14		20	70.1	38 - 123		
Vinyl Chloride	75-01-4	LCS	13.5		20	67.5	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.3	30	97.6	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.8	30	99.2	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.4	30	98.1	78 - 116	
Toluene-d8	2037-26-5	LCS	30.2	30	101	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

QC Batch

QC Batch	1362194	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3392812001 3392812002 3392812003

Matrix Spike 3924415 (MS) 3393683001 (non-Project Sample) For QC Batch 1362194

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3924416 (MSD) 3393683001 (non-Project Sample) For QC Batch 1362194

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1-Dichloroethene	75-35-4	MS	470	0	400	118	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	434	0	400	108	63 - 128	RPD 8.03 (Max-21)	
1,2-Dichloroethane	107-06-2	MS	421	0	400	105	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	380	0	400	95	70 - 133	RPD 10.40 (Max-19)	
1,4-Dichlorobenzene	106-46-7	MS	420	0	400	105	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	408	0	400	102	81 - 116	RPD 2.97 (Max-15)	
2-Butanone	78-93-3	MS	2020	0	2000	101	50 - 152		
2-Butanone	78-93-3	MSD	1870	0	2000	93.7	50 - 152	RPD 7.68 (Max-16)	
Benzene	71-43-2	MS	437	4.70	400	108	80 - 124		
Benzene	71-43-2	MSD	403	4.70	400	99.5	80 - 124	RPD 8.11 (Max-26)	
Carbon Tetrachloride	56-23-5	MS	416	0	400	104	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	390	0	400	97.5	62 - 132	RPD 6.35 (Max-17)	
Chlorobenzene	108-90-7	MS	443	0	400	111	85 - 117		
Chlorobenzene	108-90-7	MSD	399	0	400	99.8	85 - 117	RPD 10.50 (Max-15)	
Chloroform	67-66-3	MS	424	0	400	106	78 - 122		
Chloroform	67-66-3	MSD	396	0	400	99.1	78 - 122	RPD 6.76 (Max-16)	
Tetrachloroethene	127-18-4	MS	433	0	400	108	72 - 124		
Tetrachloroethene	127-18-4	MSD	393	0	400	98.3	72 - 124	RPD 9.68 (Max-38)	
Trichloroethene	79-01-6	MS	423	0	400	106	77 - 124		
Trichloroethene	79-01-6	MSD	389	0	400	97.2	77 - 124	RPD 8.49 (Max-18)	
Vinyl Chloride	75-01-4	MS	482	0	400	121	27 - 138		
Vinyl Chloride	75-01-4	MSD	498	0	400	125	27 - 138	RPD 3.24 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	643	600	107	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	615	600	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	566	600	94.3	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	584	600	97.3	79 - 114	
Dibromofluoromethane	1868-53-7	MS	616	600	103	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	586	600	97.6	78 - 116	
Toluene-d8	2037-26-5	MS	622	600	104	76 - 127	
Toluene-d8	2037-26-5	MSD	582	600	96.9	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Method Blank 3924370 (MB) Created on 12/30/2024 19:48 For QC Batch 1362194

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	0.40J	ug/L	1.0	J
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.9	30	110	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.9	30	99.6	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	31.5	30	105	78 - 116	
Toluene-d8	2037-26-5	BLK	32.6	30	109	76 - 127	

Lab Control Standard 3924371 (LCS) Created on 12/30/2024 19:48 For QC Batch 1362194

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.4		20	107	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.8		20	109	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.7		20	109	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.9		20	99.5	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.2		20	106	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	20.5		20	103	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.9		20	109	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	21.9		20	109	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.7		20	103	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	21.6		20	108	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	22.8		20	114	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.3		20	102	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.5		20	97.3	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.1		20	101	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	20.9		20	105	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.1		20	100	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.3		20	101	81 - 116		
2-Butanone	78-93-3	LCS	99.2		100	99.2	50 - 152		
2-Hexanone	591-78-6	LCS	105		100	105	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	106		100	106	71 - 146		
Acetone	67-64-1	LCS	104		100	104	40 - 151		
Benzene	71-43-2	LCS	19.8		20	99.2	80 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	22		20	110	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.9		20	110	79 - 126		
Bromoform	75-25-2	LCS	21.4		20	107	70 - 123		
Bromomethane	74-83-9	LCS	17		20	84.9	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.2		20	106	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.3		20	96.5	62 - 132		
Chlorobenzene	108-90-7	LCS	20.6		20	103	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.7		20	98.5	77 - 122		
Chloroethane	75-00-3	LCS	23.8		20	119	51 - 142		
Chloroform	67-66-3	LCS	19.8		20	98.8	78 - 122		
Chloromethane	74-87-3	LCS	18		20	89.9	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.5		20	102	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.3		20	91.3	81 - 121		
Cyclohexane	110-82-7	LCS	21.1		20	105	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	18.8		20	93.9	17 - 166		
Ethylbenzene	100-41-4	LCS	21.1		20	106	80 - 124		
Freon 113	76-13-1	LCS	21.4		20	107	50 - 130		
Isopropylbenzene	98-82-8	LCS	23		20	115	73 - 129		
Methyl acetate	79-20-9	LCS	23.1		20	116	70 - 130		
Methyl cyclohexane	108-87-2	LCS	20.7		20	103	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	21.1		20	105	69 - 115		
Methylene Chloride	75-09-2	LCS	20.7		20	104	76 - 121		
mp-Xylene	108383/106423	LCS	41.8		40	105	79 - 125		
o-Xylene	95-47-6	LCS	21		20	105	79 - 124		
Styrene	100-42-5	LCS	18.4		20	92	79 - 123		
Tetrachloroethene	127-18-4	LCS	24.1		20	121	72 - 124		
Toluene	108-88-3	LCS	20.9		20	105	80 - 125		
Total Xylenes	1330-20-7	LCS	62.8		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.1		20	100	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	18.5		20	92.3	78 - 126		
Trichloroethene	79-01-6	LCS	19.5		20	97.3	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	24		20	120	38 - 123		
Vinyl Chloride	75-01-4	LCS	21		20	105	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.4	30	98	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	27.4	30	91.3	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.6	30	98.7	78 - 116	
Toluene-d8	2037-26-5	LCS	29.7	30	98.9	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1356934	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Matrix Spike 3920243 (MS) 3392478004 (non-Project Sample) For QC Batch 1356934

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920244 (MSD) 3392478004 (non-Project Sample) For QC Batch 1356934

Matrix Spike 3920247 (MS) 3392683002 (non-Project Sample) For QC Batch 1356934

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	3	0	2.50	122*	80 - 120		

Method Blank 3920241 (MB) Created on 12/18/2024 13:43 For QC Batch 1356934

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920242 (LCS) Created on 12/18/2024 13:43 For QC Batch 1356934

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	51.3		50	103	90 - 110		

Lab Control Standard 3920245 (LCS) Created on 12/18/2024 13:43 For QC Batch 1356934

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	103	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	51.4		50	103	90 - 110		

Method Blank 3920246 (MB) Created on 12/18/2024 13:43 For QC Batch 1356934

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920248 (LCS) Created on 12/18/2024 13:43 For QC Batch 1356934

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.6		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	52.4		50	105	90 - 110		

Method Blank 3920249 (MB) Created on 12/18/2024 13:43 For QC Batch 1356934

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3920273 (MS) 3392812006 For QC Batch 1356934

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920274 (MSD) 3392812006 For QC Batch 1356934

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	13.6	1.40	10	122*	80 - 120		
Chloride	Cl	MSD	13.2	1.40	10	117	80 - 120	RPD 3.17 (Max-20)	
Nitrate-N	NO3	MS	1.8	0.64	1	115	80 - 120		
Nitrate-N	NO3	MSD	1.7	0.64	1	110	80 - 120	RPD 2.43 (Max-20)	
Sulfate	SO4	MS	27.2	14.60	10	126*	80 - 120		
Sulfate	SO4	MSD	26.8	14.60	10	122*	80 - 120	RPD 1.52 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

Lab Control Standard 3920275 (LCS) Created on 12/18/2024 14:13 For QC Batch 1356934

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.6		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.2		50	104	90 - 110		

Method Blank 3920276 (MB) Created on 12/18/2024 14:13 For QC Batch 1356934

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1357303	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3392812001 3392812002 3392812003 3392812004 3392812005

Matrix Spike 3920628 (MS) 3392908001 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920629 (MSD) 3392908001 (non-Project Sample) For QC Batch 1357303

Matrix Spike 3920850 (MS) 3392903001 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	26.4	15.40	10	110	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3920853 (MS) 3392903002 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920854 (MSD) 3392903002 (non-Project Sample) For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	12	0.91	10	111	80 - 120		
Sulfate	SO4	MSD	12.1	0.91	10	111	80 - 120	RPD 0.58 (Max-20)	

Matrix Spike 3920857 (MS) 3392903010 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	20	8.30	10	117	80 - 120		

Matrix Spike 3920860 (MS) 3392903014 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920861 (MSD) 3392903014 (non-Project Sample) For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	28.1	16.30	10	118	80 - 120		
Sulfate	SO4	MSD	28	16.30	10	117	80 - 120	RPD 0.32 (Max-20)	

Matrix Spike 3920994 (MS) 3392861001 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	2.5	1.30	1	116	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3921110 (MS) 3393066007 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921111 (MSD) 3393066007 (non-Project Sample) For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	207	180	25	NC	80 - 120		
Chloride	Cl	MSD	207	180	25	NC	80 - 120	RPD 0.32 (Max-20)	
Nitrate-N	NO3	MS	2.9	0	2.50	115	80 - 120		
Nitrate-N	NO3	MSD	2.9	0	2.50	116	80 - 120	RPD 0.69 (Max-20)	

Method Blank 3920471 (MB) Created on 12/19/2024 06:33 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920472 (LCS) Created on 12/19/2024 06:33 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.5		50	101	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	101	90 - 110		
Sulfate	SO4	LCS	50.8		50	102	90 - 110		

Lab Control Standard 3920630 (LCS) Created on 12/19/2024 08:08 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	51.3		50	103	90 - 110		

Method Blank 3920631 (MB) Created on 12/19/2024 08:08 For QC Batch 1357303

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920851 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.1		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	103	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Method Blank 3920852 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920855 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.3		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	103	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Method Blank 3920856 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3920858 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.6		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.9		50	104	90 - 110		

Method Blank 3920859 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920862 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.4		50	105	90 - 110		

Method Blank 3920863 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920995 (LCS) Created on 12/19/2024 12:09 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.8		50	106	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3920996 (MB) Created on 12/19/2024 12:09 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921112 (LCS) Created on 12/19/2024 13:35 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.3		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

Method Blank 3921113 (MB) Created on 12/19/2024 13:35 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1357327	Prep Method	N/A
Date Tech.	N/A	Analysis Method	SM2130B-2011

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Method Blank 3920612 (MB) Created on 12/19/2024 07:58 For QC Batch 1357327

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3920614 (DUP) 3392812001 For QC Batch 1357327

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)			Qualifiers
Turbidity	Turb	DUP	27	28	RPD	3.64 (Max-10)	

Method Blank 3920615 (MB) Created on 12/19/2024 07:58 For QC Batch 1357327

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1358148	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3392812001 3392812002 3392812003

Duplicate 3921735 (DUP) 3392720002 (non-Project Sample) For QC Batch 1358148

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	330	388	RPD	16.20* (Max-5)	

Duplicate 3921736 (DUP) 3392722002 (non-Project Sample) For QC Batch 1358148

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	322	322	RPD	0 (Max-5)	

Method Blank 3921490 (MB) Created on 12/20/2024 09:05 For QC Batch 1358148

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3921491 (LCS) Created on 12/20/2024 09:05 For QC Batch 1358148

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	479		500	95.8	90 - 110		

QC Batch

QC Batch	1358150	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3392812004 3392812005 3392812006

Duplicate 3921737 (DUP) 3392822001 (non-Project Sample) For QC Batch 1358150

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	426	408	RPD	4.32 (Max-5)	

Duplicate 3921738 (DUP) 3392869001 (non-Project Sample) For QC Batch 1358150

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Total Dissolved Solids	TDS	DUP	358	382	RPD	6.49* (Max-5)	

Method Blank 3921498 (MB) Created on 12/20/2024 09:07 For QC Batch 1358150

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

Lab Control Standard 3921499 (LCS) Created on 12/20/2024 09:07 For QC Batch 1358150

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	489		500	97.8	90 - 110		

QC Batch

QC Batch	1359756	Prep Method	N/A
Date	N/A	Analysis Method	S4500HB-11
Tech.			

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Duplicate 3922691 (DUP) 3392161001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	210.64	203.12	RPD	3.63	(Max-20)	
pH	PH	DUP	8.2560	8.2480	RPD	0.10	(Max-10)	

Duplicate 3922695 (DUP) 3392161011 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	505.20	489.20	RPD	3.22	(Max-20)	
pH	PH	DUP						

Duplicate 3922696 (DUP) 3392316001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	314.04	302.40	RPD	3.78	(Max-20)	
pH	PH	DUP						

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922700 (DUP) 3392379005 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	274.52	270.04	RPD	1.65	(Max-20)	
pH	PH	DUP						

Duplicate 3922701 (DUP) 3392402001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	122.64	120.24	RPD	1.98	(Max-20)	
pH	PH	DUP						

Duplicate 3922705 (DUP) 3392589001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	68.48	67.16	RPD	1.95	(Max-20)	
pH	PH	DUP	8.09	8.0960	RPD	0.07	(Max-10)	

Duplicate 3922709 (DUP) 3392622001 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)				Qualifiers
pH	PH	DUP	3.8370	5.2310	RPD	30.70*	(Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3922713 (DUP) 3392641005 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	30.68	30.64	RPD	0.13	(Max-20)	
pH	PH	DUP	7.4010	7.3550	RPD	0.62	(Max-10)	

Duplicate 3922717 (DUP) 3392641015 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	29.40	29.20	RPD	0.68	(Max-20)	
pH	PH	DUP	7.6850	7.6690	RPD	0.21	(Max-10)	

Duplicate 3922721 (DUP) 3392641025 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	95.92	96.84	RPD	0.95	(Max-20)	
pH	PH	DUP	8.2880	8.2750	RPD	0.16	(Max-10)	

Duplicate 3922725 (DUP) 3392711003 (non-Project Sample) For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3922687 (MB) Created on 12/23/2024 16:10 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922693 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922698 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922703 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922707 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922711 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922715 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922719 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922723 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3922727 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3922729 (DUP) 3392812006 For QC Batch 1359756

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Alkalinity, Total	ALKT	DUP	210.28	210.40	RPD	0.06	(Max-20)	
pH	PH	DUP	8.4680	8.4550	RPD	0.15	(Max-10)	

Method Blank 3922731 (MB) Created on 12/23/2024 16:17 For QC Batch 1359756

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1360767	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3392812001	3392812002	3392812003	3392812004
3392812005	3392812006		

Duplicate 3923241 (DUP) 3392641021 (non-Project Sample) For QC Batch 1360767

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Acidity, Total	ACID-T	DUP	1	1	RPD	0	(Max-20)	ND

Method Blank 3923240 (MB) Created on 12/26/2024 12:37 For QC Batch 1360767

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3923243 (MB) Created on 12/26/2024 12:37 For QC Batch 1360767

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Duplicate 3923244 (DUP) 3392812004 For QC Batch 1360767

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Acidity, Total	ACID-T	DUP	46	50	RPD	8.33	(Max-20)	

Method Blank 3923246 (MB) Created on 12/26/2024 12:37 For QC Batch 1360767

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1362186	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3392812001 3392812002 3392812003 3392812004
3392812005 3392812006

Duplicate 3924352 (DUP) 3393066001 (non-Project Sample) For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	2042	2034	RPD	0.39	(Max-10)	

Duplicate 3924354 (DUP) 3394009002 (non-Project Sample) For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	998	1001	RPD	0.30	(Max-10)	

Duplicate 3924356 (DUP) 3393197002 (non-Project Sample) For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)				Qualifiers
Specific Conductance	Cond	DUP	537	535	RPD	0.37	(Max-10)	

Duplicate 3924350 (DUP) 3392812002 For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	2870	3210	RPD	11.20* (Max-10)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392812001	MW-9D	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1358090	12/20/2024 07:49	AJN	SW846 7470A	1358249
		SW846 7470A	1358092	12/20/2024 07:49	AJN	SW846 7470A	1358251
		SW846 3510C	1358115	12/20/2024 09:55	EJH	SW846 8270E	1363674
		N/A	N/A	N/A		SW846 8260D	1362194
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1357327
		N/A	N/A	N/A		SM2310B-2011	1360767
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1358148
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1356934
		N/A	N/A	N/A		SW846 9056A	1357303
3392812002	MW-27S	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1358090	12/20/2024 07:49	AJN	SW846 7470A	1358249
		SW846 7470A	1358092	12/20/2024 07:49	AJN	SW846 7470A	1358251
		SW846 3510C	1359732	12/23/2024 16:15	BMP	SW846 8270E	1362174
		SW846 3510C	1359732	12/23/2024 16:15	BMP	SW846 8270E	1363674
		N/A	N/A	N/A		SW846 8260D	1362194
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1357327
		N/A	N/A	N/A		SM2310B-2011	1360767
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1358148
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1356934
		N/A	N/A	N/A		SW846 9056A	1357303
3392812003	MW-27D	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1358090	12/20/2024 07:49	AJN	SW846 7470A	1358249
		SW846 7470A	1358092	12/20/2024 07:49	AJN	SW846 7470A	1358251
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		N/A	N/A	N/A		SW846 8260D	1362194
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1357327
		N/A	N/A	N/A		SM2310B-2011	1360767
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1358148
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1356934
		N/A	N/A	N/A		SW846 9056A	1357303

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3392812004	MW-36S	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1358090	12/20/2024 07:49	AJN	SW846 7470A	1358249
		SW846 7470A	1358092	12/20/2024 07:49	AJN	SW846 7470A	1358251
		SW846 3510C	1359732	12/23/2024 16:15	BMP	SW846 8270E	1362174
		SW846 3510C	1359732	12/23/2024 16:15	BMP	SW846 8270E	1363674
		N/A	N/A	N/A		SW846 8260D	1361065
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1357327
		N/A	N/A	N/A		SM2310B-2011	1360767
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1358150
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1356934
		N/A	N/A	N/A		SW846 9056A	1357303
3392812005	MW-36D	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1358090	12/20/2024 07:49	AJN	SW846 7470A	1358249
		SW846 7470A	1358092	12/20/2024 07:49	AJN	SW846 7470A	1358251
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		N/A	N/A	N/A		SW846 8260D	1361065
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1357327
		N/A	N/A	N/A		SM2310B-2011	1360767
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1358150
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1356934
		N/A	N/A	N/A		SW846 9056A	1357303
3392812006	MW-42	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1358090	12/20/2024 07:49	AJN	SW846 7470A	1358249
		SW846 7470A	1358092	12/20/2024 07:49	AJN	SW846 7470A	1358251
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361065
		N/A	N/A	N/A		S4500HB-11	1359756
		N/A	N/A	N/A		SM2130B-2011	1357327
		N/A	N/A	N/A		SM2310B-2011	1360767
		N/A	N/A	N/A		SM2320B-2011	1359756
		N/A	N/A	N/A		SM2540C-15	1358150
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1356934
3392812007	TB-45	N/A	N/A	N/A		SW846 8260D	1361065

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3392812 Logged By: EXP PM: EXP 1 of 2

ALS Quote

Client Name: Michael Baker Intl.
Address: 100 Airside Drive Moon Twp., PA
Contact: C. Kupfer
Phone#: 412-269-6300
Project Name/#: Erie Coke Works
Bill To:
Purchase Order #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

Container Type	G	G	P	P	P						
Container Size	3 40 ml	1 500 ml	4 125 ml	2 1L	1L						
Preservative	HCl	—	HNO_3	—	UNP						

DD 12/18/24

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.						
	Enter Number of Containers Per Sample or Field Results Below.																
1	MW-9D	12/17/24	0900		G	GW	3	X	X	X	X						
2	MW-27S		0920				X	X	X	X	X						
3	MW-27D		1110				X	X	X	X	X						
4	MW-36S		0920				X	X	X	X	X						
5	MW-36D		1110				X	X	X	X	X						
6	MW-42	↓	1500		↓	↓	X	X	X	X	X						
7	TB-45	—	—		—	—	X										
8																	
9																	
10																	

DD 12/18/24

Temp Taken By: Therm ID: WO Temp (°C)

Receipt Info completed by: WV Containers 0-6°C Y N NA

Cooler Custody Seals Intact	Y	N	NA
Sample Custody Seal Intact	Y	N	NA
Received on Ice	Y	N	NA
Coolers & Samples Intact	Y	N	
Correct Containers Provided	Y	N	
Sample Label/COC Agree	Y	N	
Adequate Sample Volumes	Y	N	
VOA only: Trip Blank	Y	N	NA

NJ ≤ 4 days? Y N
Courier/Tracking #

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample(s) for Radiation testing? Y N Rad Screen (uCi)_____
Reportable SDWA Sample(s)? Y N New Source? Y N
SDWA State of Origin?_____ New Source Contact:
PWSID #_____
PWS Contact:_____ PWS Phone #:_____

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks
*All of the samples are considered "Hot" except MW-42

Contains Short Hold Testing YES NO
Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/17/24	1730	1	Dave Gaviglia / MBI	2	FEDEX
		3	FEDEX	4	DD/ALS 12/18/24 0942
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type:

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

Middletown Sample Condition Form

Client Michael Baker INTL. Workorder 3392812

Temp °C 5° Therm ID 571 Ice? (Y) N N/A Initials & Date DD 12/18/24

(Fedex) UPS Client ALS Other Tracking # 2834 2944 6645 2834 2944 6656

	Yes	No	N/A	Comments
Cooler Custody Seals present & intact		X		
Sample Custody Seals present & intact		X		
Chain-of-Custody present	X			
Sample collector name present		X		
COC/bottle labels complete & in agreement	X			
•Sample location	X			
•Date and time of sample collection	X			
•Type(s) of preservation	X			
•Number of containers		X		
•Composite or grab	X			
•Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			8260 TB
Field blanks present (Hg 1631, PFAS)		X	X	
NJ ≤ 4 Days	DD 12/18/24	X	X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

Rad Screen (uCi) _____

Review Comments:

_____

_____

_____

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke Works 188511-3020
Workorder 3393066
Report ID 380554 on 1/10/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Dec 19, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3393066001	MW-34S	Ground Water	12/18/2024 09:10	12/19/2024 09:26	CBC	Collected By Client
3393066002	MW-34S-DUP	Ground Water	12/18/2024 09:20	12/19/2024 09:26	CBC	Collected By Client
3393066003	MW-34D	Ground Water	12/18/2024 11:20	12/19/2024 09:26	CBC	Collected By Client
3393066004	MW-10S	Ground Water	12/18/2024 12:50	12/19/2024 09:26	CBC	Collected By Client
3393066005	MW-26S	Ground Water	12/18/2024 09:25	12/19/2024 09:26	CBC	Collected By Client
3393066006	MW-26D	Ground Water	12/18/2024 10:50	12/19/2024 09:26	CBC	Collected By Client
3393066007	MW-10D	Ground Water	12/18/2024 12:15	12/19/2024 09:26	CBC	Collected By Client
3393066008	TB-46	Ground Water	12/18/2024 12:15	12/19/2024 09:26	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2,4-Dinitrophenol. The % Recovery was reported as 71 and the control limits were 80 to 120.
2	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte 2,3,4,6-Tetrachlorophenol. The % Recovery was reported as 131 and the control limits were 80 to 120.
3	The Total Acidity is titrated to a pH of 8.3 and reported as mg CaCO3/L.
4	The Total Alkalinity is titrated to a pH of 4.5 and reported as mg CaCO3/L.
5	Analyte was analyzed past the 28 day holding time.
6	The pH analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.

Detected Results Summary

Client Sample ID	MW-34S	Collected	12/18/2024 09:10
Lab Sample ID	3393066001	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.17	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.0061J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0071J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.032	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.033	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	171	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	158	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0041J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.18	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	1.0	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	44.3	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	43.1	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.48	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.39	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	5.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	5.4	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.037	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.044	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	191	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	189	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	64.0	ug/L	7.5	1.3	SW846 8270E	#
2-Methylnaphthalene	52.2	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthene	7.0	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	14.3	ug/L	3.8	0.63	SW846 8270E	#
Acetophenone	5.8J	ug/L	7.5	2.3	SW846 8270E	#
Anthracene	3.8	ug/L	3.8	0.63	SW846 8270E	#
Biphenyl	17.4	ug/L	7.5	0.63	SW846 8270E	#
Carbazole	113	ug/L	7.5	0.63	SW846 8270E	#
Dibenzofuran	38.4	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	2.7J	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	30.8	ug/L	3.8	0.63	SW846 8270E	#
mp-Cresol	16.8	ug/L	7.5	1.3	SW846 8270E	#
Naphthalene	3550	ug/L	188	81.3	SW846 8270E	#
o-Cresol	7.0J	ug/L	7.5	1.3	SW846 8270E	#
Phenanthrene	29.6	ug/L	3.8	0.63	SW846 8270E	#
Phenol	24.3	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	1.5J	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	312	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	77.3	ug/L	50.0	10.0	SW846 8260D	#
Benzene	3370	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	165	ug/L	50.0	17.0	SW846 8260D	#
Isopropylbenzene	16.0J	ug/L	50.0	11.0	SW846 8260D	#
mp-Xylene	563	ug/L	100	26.0	SW846 8260D	#

Detected Results Summary

Sample - MW-34S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
o-Xylene	328	ug/L	50.0	16.5	SW846 8260D	#
Styrene	31.5J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	431	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	891	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	18	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	493	mg/L	50	50	SM2320B-2011	#
Chloride	123	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	2.8	mg/L	2.5	0.80	SW846 9056A	#
pH	8.20	pH_Units			S4500HB-11	#
Specific Conductance	2030	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	444	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1020	mg/L	25	25	SM2540C-15	#
Turbidity	380	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-34S-DUP	Collected	12/18/2024 09:20
Lab Sample ID	3393066002	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	0.17	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Dissolved	0.0059J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.033	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.033	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	172	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	157	mg/L	0.11	0.036	SW846 6010C	#
Copper, Total	0.0044J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.19	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	1.0	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	44.4	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	42.9	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.48	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.39	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	5.7	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	5.4	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Dissolved	0.036	mg/L	0.022	0.0073	SW846 6010C	#
Selenium, Total	0.042	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	191	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	188	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	55.4	ug/L	7.5	1.3	SW846 8270E	#
2-Methylnaphthalene	47.0	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthene	5.9	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	10.6	ug/L	3.8	0.63	SW846 8270E	#
Acetophenone	4.4J	ug/L	7.5	2.3	SW846 8270E	#
Anthracene	3.1J	ug/L	3.8	0.63	SW846 8270E	#
Biphenyl	15.0	ug/L	7.5	0.63	SW846 8270E	#
Carbazole	101	ug/L	7.5	0.63	SW846 8270E	#
Dibenzofuran	33.8	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	2.3J	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	27.0	ug/L	3.8	0.63	SW846 8270E	#
mp-Cresol	13.1	ug/L	7.5	1.3	SW846 8270E	#
Naphthalene	3120	ug/L	188	81.3	SW846 8270E	#
o-Cresol	6.4J	ug/L	7.5	1.3	SW846 8270E	#
Phenanthrene	27.8	ug/L	3.8	0.63	SW846 8270E	#
Phenol	21.7	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	1.2J	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	146	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	42.7J	ug/L	50.0	10.0	SW846 8260D	#
Benzene	3550	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	100	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	381	ug/L	100	26.0	SW846 8260D	#
o-Xylene	239	ug/L	50.0	16.5	SW846 8260D	#
Styrene	31.9J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	442	ug/L	50.0	11.5	SW846 8260D	#

Detected Results Summary

Sample - MW-34S-DUP (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Total Xylenes	619	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	17	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	506	mg/L	50	50	SM2320B-2011	#
Chloride	124	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	3.3	mg/L	2.5	0.80	SW846 9056A	#
pH	8.26	pH_Units			S4500HB-11	#
Specific Conductance	2050	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	453	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1170	mg/L	25	25	SM2540C-15	#
Turbidity	360	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-34D	Collected	12/18/2024 11:20
Lab Sample ID	3393066003	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0094	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0052J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.034	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.035	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	156	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	152	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0027J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0037J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.24	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.30	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	45.0	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	44.2	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.21	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.21	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	7.9	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	8.0	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.042	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	194	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	196	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	97.4	ug/L	7.5	1.3	SW846 8270E	#
2-Methylnaphthalene	429	ug/L	188	31.3	SW846 8270E	#
4-Nitrophenol	4.9J	ug/L	7.5	2.8	SW846 8270E	#
Acenaphthene	11.3	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	85.6	ug/L	3.8	0.63	SW846 8270E	#
Acetophenone	7.3J	ug/L	7.5	2.3	SW846 8270E	#
Anthracene	22.6	ug/L	3.8	0.63	SW846 8270E	#
Biphenyl	53.1	ug/L	7.5	0.63	SW846 8270E	#
Carbazole	311J	ug/L	375	31.3	SW846 8270E	#
Dibenzofuran	125	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	13.5	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	123	ug/L	3.8	0.63	SW846 8270E	#
mp-Cresol	27.6	ug/L	7.5	1.3	SW846 8270E	#
Naphthalene	9800	ug/L	188	81.3	SW846 8270E	#
Nitrobenzene	10.4	ug/L	7.5	1.5	SW846 8270E	#
o-Cresol	28.3	ug/L	7.5	1.3	SW846 8270E	#
Phenanthrene	114	ug/L	3.8	0.63	SW846 8270E	#
Phenol	29.5	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	7.9	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	151	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	59.7	ug/L	50.0	10.0	SW846 8260D	#
Benzene	3810	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	104	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	405	ug/L	100	26.0	SW846 8260D	#
o-Xylene	239	ug/L	50.0	16.5	SW846 8260D	#

Detected Results Summary

Sample - MW-34D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Styrene	63.4	ug/L	50.0	12.0	SW846 8260D	#
Toluene	648	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	643	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	7	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	506	mg/L	50	50	SM2320B-2011	#
Chloride	104	mg/L	5.0	2.2	SW846 9056A	#
pH	8.43	pH_Units			S4500HB-11	#
Specific Conductance	1950	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	450	mg/L	5.0	3.5	SW846 9056A	#
Total Dissolved Solids	1500	mg/L	25	25	SM2540C-15	#
Turbidity	550	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-10S	Collected	12/18/2024 12:50
Lab Sample ID	3393066004	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0080J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0082J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.022	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.022	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	226	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	220	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0021J	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0053J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.30	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.34	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	59.1	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	58.1	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.17	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.17	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	2.3	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	2.3	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.020J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	183	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	182	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	267	ug/L	150	25.0	SW846 8270E	#
2-Methylnaphthalene	88.9	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthene	4.0	ug/L	1.5	0.25	SW846 8270E	#
Acenaphthylene	3.7	ug/L	1.5	0.25	SW846 8270E	#
Acetophenone	9.5	ug/L	3.0	0.90	SW846 8270E	#
Anthracene	4.3	ug/L	1.5	0.25	SW846 8270E	#
Biphenyl	13.8	ug/L	3.0	0.25	SW846 8270E	#
Carbazole	131J	ug/L	150	12.5	SW846 8270E	#
Dibenzofuran	30.7	ug/L	3.0	0.25	SW846 8270E	#
Fluoranthene	3.9	ug/L	1.5	0.25	SW846 8270E	#
Fluorene	27.4	ug/L	1.5	0.25	SW846 8270E	#
mp-Cresol	92.2	ug/L	3.0	0.50	SW846 8270E	#
Naphthalene	3490	ug/L	75.0	32.5	SW846 8270E	#
Nitrobenzene	115	ug/L	3.0	0.58	SW846 8270E	#
o-Cresol	268	ug/L	150	25.0	SW846 8270E	#
Phenanthrene	30.0	ug/L	1.5	0.25	SW846 8270E	#
Phenol	38.5	ug/L	8.0	0.50	SW846 8270E	#
Pyrene	2.2	ug/L	1.5	0.25	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	155	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	62.7	ug/L	50.0	10.0	SW846 8260D	#
Benzene	4640	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	87.4	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	406	ug/L	100	26.0	SW846 8260D	#
o-Xylene	205	ug/L	50.0	16.5	SW846 8260D	#
Styrene	22.0J	ug/L	50.0	12.0	SW846 8260D	#

Detected Results Summary

Sample - MW-10S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Toluene	711	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	612	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	22	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	468	mg/L	50	50	SM2320B-2011	#
Chloride	96.5	mg/L	5.0	2.2	SW846 9056A	#
pH	8.37	pH_Units			S4500HB-11	#
Specific Conductance	2530	umhos/cm	50	1	SW846 9050A	#
Sulfate	746	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1240	mg/L	25	25	SM2540C-15	#
Turbidity	290	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-26S	Collected	12/18/2024 09:25
Lab Sample ID	3393066005	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0050J	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0073J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.027	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.027	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	165	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	163	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Dissolved	0.016	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.0039J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.17	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.14	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	59.0	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	58.5	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.23	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.22	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.5	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.5	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.022J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	150	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	151	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	3810	ug/L	150	25.0	SW846 8270E	#
2-Methylnaphthalene	470	ug/L	75.0	12.5	SW846 8270E	#
Acenaphthene	12.4	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	14.0	ug/L	3.8	0.63	SW846 8270E	#
Anthracene	19.4	ug/L	3.8	0.63	SW846 8270E	#
Biphenyl	42.9	ug/L	7.5	0.63	SW846 8270E	#
Caprolactam	2.2J	ug/L	7.5	0.90	SW846 8270E	#
Carbazole	401	ug/L	150	12.5	SW846 8270E	#
Dibenzofuran	101	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	11.8	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	97.9	ug/L	3.8	0.63	SW846 8270E	#
mp-Cresol	639	ug/L	150	25.0	SW846 8270E	#
Naphthalene	12900	ug/L	750	325	SW846 8270E	#
o-Cresol	5570	ug/L	150	25.0	SW846 8270E	#
Phenanthrene	97.2	ug/L	3.8	0.63	SW846 8270E	#
Phenol	329	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	6.5	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	534	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	201	ug/L	50.0	10.0	SW846 8260D	#
Benzene	14400	ug/L	500	115	SW846 8260D	#
Ethylbenzene	1040	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	894	ug/L	100	26.0	SW846 8260D	#
o-Xylene	452	ug/L	50.0	16.5	SW846 8260D	#
Styrene	19.7J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	1190	ug/L	50.0	11.5	SW846 8260D	#

Detected Results Summary

Sample - MW-26S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Total Xylenes	1350	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						
Acidity, Total	14	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	486	mg/L	50	50	SM2320B-2011	#
Chloride	101	mg/L	5.0	2.2	SW846 9056A	#
pH	8.29	pH_Units			S4500HB-11	#
Specific Conductance	3120	umhos/cm	50	1	SW846 9050A	#
Sulfate	685	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1200	mg/L	25	25	SM2540C-15	#
Turbidity	450	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-26D	Collected	12/18/2024 10:50
Lab Sample ID	3393066006	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.0072J	mg/L	0.0090	0.0030	SW846 6010C	#
Barium, Dissolved	0.024	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.024	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	252	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	247	mg/L	0.11	0.036	SW846 6010C	#
Copper, Total	0.0043J	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Dissolved	0.29	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.31	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	58.6	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	57.4	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.52	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.49	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	4.0	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.8	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.021J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Dissolved	88.3	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	88.6	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	563	ug/L	7.5	1.3	SW846 8270E	#
2-Methylnaphthalene	312	ug/L	37.5	6.3	SW846 8270E	#
Acenaphthene	8.5	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	2.2J	ug/L	3.8	0.63	SW846 8270E	#
Anthracene	16.6	ug/L	3.8	0.63	SW846 8270E	#
Biphenyl	29.9	ug/L	7.5	0.63	SW846 8270E	#
Carbazole	345	ug/L	75.0	6.3	SW846 8270E	#
Dibenzofuran	72.4	ug/L	7.5	0.63	SW846 8270E	#
Diethylphthalate	0.71J	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	8.4	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	79.4	ug/L	3.8	0.63	SW846 8270E	#
mp-Cresol	92.8	ug/L	7.5	1.3	SW846 8270E	#
Naphthalene	7310	ug/L	375	163	SW846 8270E	#
o-Cresol	909	ug/L	75.0	12.5	SW846 8270E	#
Phenanthrene	70.5	ug/L	3.8	0.63	SW846 8270E	#
Phenol	42.4	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	4.7	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	679	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	172	ug/L	50.0	10.0	SW846 8260D	#
Benzene	4060	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	587	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	483	ug/L	100	26.0	SW846 8260D	#
o-Xylene	267	ug/L	50.0	16.5	SW846 8260D	#
Styrene	16.6J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	340	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	750	ug/L	150	33.0	SW846 8260D	#

Detected Results Summary

Sample - MW-26D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Acidity, Total	52	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	534	mg/L	50	50	SM2320B-2011	#
Chloride	37.2	mg/L	5.0	2.2	SW846 9056A	#
Nitrate-N	2.0J	mg/L	2.5	0.80	SW846 9056A	#
pH	8.23	pH_Units			S4500HB-11	#
Specific Conductance	2030	umhos/cm	5	0.1	SW846 9050A	#
Sulfate	598	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1320	mg/L	25	25	SM2540C-15	#
Turbidity	22	NTU	0.30	0.30	SM2130B-2011	#

Detected Results Summary

Client Sample ID	MW-10D	Collected	12/18/2024 12:15
Lab Sample ID	3393066007	Lab Receipt	12/19/2024 09:26

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Dissolved	0.010	mg/L	0.0090	0.0030	SW846 6010C	#
Arsenic, Total	0.0043J	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Dissolved	0.025	mg/L	0.011	0.0036	SW846 6010C	#
Barium, Total	0.025	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Dissolved	166	mg/L	0.11	0.036	SW846 6010C	#
Calcium, Total	168	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.0029J	mg/L	0.0056	0.0020	SW846 6010C	#
Iron, Dissolved	0.29	mg/L	0.067	0.022	SW846 6010C	#
Iron, Total	0.47	mg/L	0.067	0.022	SW846 6010C	#
Magnesium, Dissolved	73.5	mg/L	0.11	0.036	SW846 6010C	#
Magnesium, Total	73.7	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Dissolved	0.068	mg/L	0.0056	0.0020	SW846 6010C	#
Manganese, Total	0.069	mg/L	0.0056	0.0020	SW846 6010C	#
Potassium, Dissolved	3.2	mg/L	0.56	0.18	SW846 6010C	#
Potassium, Total	3.0	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Dissolved	239	mg/L	0.56	0.18	SW846 6010C	#
Sodium, Total	236	mg/L	0.56	0.18	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	2530	ug/L	75.0	12.5	SW846 8270E	#
2-Methylnaphthalene	349	ug/L	37.5	6.3	SW846 8270E	#
Acenaphthene	10.3	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	26.2	ug/L	3.8	0.63	SW846 8270E	#
Anthracene	13.5	ug/L	3.8	0.63	SW846 8270E	#
Biphenyl	39.6	ug/L	7.5	0.63	SW846 8270E	#
Carbazole	360	ug/L	75.0	6.3	SW846 8270E	#
Dibenzofuran	82.2	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	11.1	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	70.2	ug/L	3.8	0.63	SW846 8270E	#
mp-Cresol	2060	ug/L	75.0	12.5	SW846 8270E	#
Naphthalene	11900	ug/L	3750	1630	SW846 8270E	#
o-Cresol	3640	ug/L	75.0	12.5	SW846 8270E	#
Phenanthrene	71.4	ug/L	3.8	0.63	SW846 8270E	#
Phenol	351	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	7.0	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	170	ug/L	50.0	12.5	SW846 8260D	#
1,3,5-Trimethylbenzene	76.7	ug/L	50.0	10.0	SW846 8260D	#
Benzene	10400	ug/L	250	57.5	SW846 8260D	#
Ethylbenzene	107	ug/L	50.0	17.0	SW846 8260D	#
mp-Xylene	604	ug/L	100	26.0	SW846 8260D	#
o-Xylene	283	ug/L	50.0	16.5	SW846 8260D	#
Styrene	25.9J	ug/L	50.0	12.0	SW846 8260D	#
Toluene	1500	ug/L	50.0	11.5	SW846 8260D	#
Total Xylenes	887	ug/L	150	33.0	SW846 8260D	#
WET CHEMISTRY						

Detected Results Summary

Sample - MW-10D (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY (cont.)						
Acidity, Total	11	mg/L	5	5	SM2310B-2011	#
Alkalinity, Total	403	mg/L	5	5	SM2320B-2011	#
Chloride	180	mg/L	5.0	2.2	SW846 9056A	#
pH	8.37	pH_Units			S4500HB-11	#
Specific Conductance	2650	umhos/cm	50	1	SW846 9050A	#
Sulfate	836	mg/L	10.0	7.0	SW846 9056A	#
Total Dissolved Solids	1530	mg/L	25	25	SM2540C-15	#
Turbidity	380	NTU	0.30	0.30	SM2130B-2011	#

Results

Client Sample ID	MW-34S	Collected	12/18/2024 09:10
Lab Sample ID	3393066001	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Aluminum, Total	0.17		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Arsenic, Dissolved	0.0061J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Arsenic, Total	0.0071J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:26	MSY	E1
Barium, Dissolved	0.032		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Barium, Total	0.033		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Calcium, Dissolved	171		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Calcium, Total	158		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Chromium, Total	0.0021J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:39	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Copper, Total	0.0041J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Iron, Dissolved	0.18		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Iron, Total	1.0		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Magnesium, Dissolved	44.3		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Magnesium, Total	43.1		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Manganese, Dissolved	0.48		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Manganese, Total	0.39		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 11:00	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:37	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Potassium, Dissolved	5.7		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Potassium, Total	5.4		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Selenium, Dissolved	0.037		mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Selenium, Total	0.044		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Sodium, Dissolved	191		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Sodium, Total	189		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:18	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 11:58	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:18	MSY	E1

Results

Client Sample ID	MW-34S	Collected	12/18/2024 09:10
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METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,4-Dimethylphenol	64.0		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	15.0	10.8	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	12/26/2024 16:29	CGS	D
2-Methylnaphthalene	52.2		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	12/26/2024 16:29	CGS	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 16:29	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
4-Nitrophenol	ND	ND	ug/L	7.5	2.8	SW846 8270E	1	12/26/2024 16:29	CGS	D
Acenaphthene	7.0		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Acenaphthylene	14.3		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Acetophenone	5.8J	J	ug/L	7.5	2.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
Anthracene	3.8		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	3.8	0.70	SW846 8270E	1	12/26/2024 16:29	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 16:29	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	3.8	0.75	SW846 8270E	1	12/26/2024 16:29	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	3.8	0.90	SW846 8270E	1	12/26/2024 16:29	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	3.8	0.85	SW846 8270E	1	12/26/2024 16:29	CGS	D
Biphenyl	17.4		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 16:29	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	12/26/2024 16:29	CGS	D
Caprolactam	ND	ND	ug/L	7.5	0.90	SW846 8270E	1	12/26/2024 16:29	CGS	D
Carbazole	113		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D

Results

Client Sample ID	MW-34S	Collected	12/18/2024 09:10
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 16:29	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	3.8	0.80	SW846 8270E	1	12/26/2024 16:29	CGS	D
Dibenzofuran	38.4		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Diethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 16:29	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Fluoranthene	2.7J	J	ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Fluorene	30.8		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	12/26/2024 16:29	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	12/26/2024 16:29	CGS	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	3.8	0.78	SW846 8270E	1	12/26/2024 16:29	CGS	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 16:29	CGS	D
mp-Cresol	16.8		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
Naphthalene	3550		ug/L	188	81.3	SW846 8270E	50	12/27/2024 13:48	CGS	D
Nitrobenzene	ND	ND	ug/L	7.5	1.5	SW846 8270E	1	12/26/2024 16:29	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	12/26/2024 16:29	CGS	D
o-Cresol	7.0J	J	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	12/26/2024 16:29	CGS	D
Phenanthrene	29.6		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D
Phenol	24.3		ug/L	20.0	1.3	SW846 8270E	1	12/26/2024 16:29	CGS	D
Pyrene	1.5J	J	ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:29	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	70.4%	23 – 131	12/26/2024 16:29	
2-Fluorobiphenyl	321-60-8	66.3%	24 – 116	12/26/2024 16:29	
2-Fluorophenol	367-12-4	39.1%	10 – 85	12/26/2024 16:29	
Nitrobenzene-d5	4165-60-0	62.3%	32 – 125	12/26/2024 16:29	
Phenol-d5	4165-62-2	29.1%	7 – 56	12/26/2024 16:29	
Terphenyl-d14	98904-43-9	58.7%	41 – 145	12/26/2024 16:29	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 04:58	PDK	A

Results

Client Sample ID	MW-34S	Collected	12/18/2024 09:10
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VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	312		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,3,5-Trimethylbenzene	77.3		ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 04:58	PDK	A
Benzene	3370		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Ethylbenzene	165		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Isopropylbenzene	16.0J	J	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
mp-Xylene	563		ug/L	100	26.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
o-Xylene	328		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Styrene	31.5J	J	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Toluene	431		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Total Xylenes	891		ug/L	150	33.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 04:58	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 04:58	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 04:58	PDK	A

Results

Client Sample ID	MW-34S	Collected	12/18/2024 09:10
Lab Sample ID	3393066001	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	110%	62 – 133	12/28/2024 04:58	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	12/28/2024 04:58	
Dibromofluoromethane	1868-53-7	106%	78 – 116	12/28/2024 04:58	
Toluene-d8	2037-26-5	110%	76 – 127	12/28/2024 04:58	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	18	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	493	4,5	mg/L	50	50	SM2320B-2011	10	01/03/2025 10:44	KMV	I
Chloride	123		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 21:21	J1W	I
Nitrate-N	2.8		mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 21:21	J1W	I
pH	8.20	6	pH_Units			S4500HB-11	1	01/01/2025 04:19	JXK	I
Specific Conductance	2030		umhos/cm	5	0.1	SW846 9050A	1	12/30/2024 17:12	LMD	I
Sulfate	444		mg/L	5.0	3.5	SW846 9056A	5	12/19/2024 21:21	J1W	I
Total Dissolved Solids	1020		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	380		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	MW-34S-DUP	Collected	12/18/2024 09:20
Lab Sample ID	3393066002	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Aluminum, Total	0.17		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Arsenic, Dissolved	0.0059J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:27	MSY	E1
Barium, Dissolved	0.033		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Barium, Total	0.033		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Calcium, Dissolved	172		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Calcium, Total	157		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:40	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Copper, Total	0.0044J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Iron, Dissolved	0.19		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Iron, Total	1.0		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Magnesium, Dissolved	44.4		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Magnesium, Total	42.9		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Manganese, Dissolved	0.48		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Manganese, Total	0.39		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:59	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:42	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Potassium, Dissolved	5.7		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Potassium, Total	5.4		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Selenium, Dissolved	0.036		mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Selenium, Total	0.042		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Sodium, Dissolved	191		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Sodium, Total	188		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:19	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:00	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:19	MSY	E1

Results

Client Sample ID	MW-34S-DUP	Collected	12/18/2024 09:20
Lab Sample ID	3393066002	Lab Receipt	12/19/2024 09:26

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,4-Dimethylphenol	55.4		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	15.0	10.8	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	12/26/2024 16:55	CGS	D
2-Methylnaphthalene	47.0		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	12/26/2024 16:55	CGS	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 16:55	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
4-Nitrophenol	ND	ND	ug/L	7.5	2.8	SW846 8270E	1	12/26/2024 16:55	CGS	D
Acenaphthene	5.9		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Acenaphthylene	10.6		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Acetophenone	4.4J	J	ug/L	7.5	2.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
Anthracene	3.1J	J	ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	3.8	0.70	SW846 8270E	1	12/26/2024 16:55	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 16:55	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	3.8	0.75	SW846 8270E	1	12/26/2024 16:55	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	3.8	0.90	SW846 8270E	1	12/26/2024 16:55	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	3.8	0.85	SW846 8270E	1	12/26/2024 16:55	CGS	D
Biphenyl	15.0		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 16:55	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	12/26/2024 16:55	CGS	D
Caprolactam	ND	ND	ug/L	7.5	0.90	SW846 8270E	1	12/26/2024 16:55	CGS	D
Carbazole	101		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D

Results

Client Sample ID	MW-34S-DUP	Collected	12/18/2024 09:20
Lab Sample ID	3393066002	Lab Receipt	12/19/2024 09:26

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 16:55	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	3.8	0.80	SW846 8270E	1	12/26/2024 16:55	CGS	D
Dibenzofuran	33.8		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Diethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 16:55	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Fluoranthene	2.3J	J	ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Fluorene	27.0		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	12/26/2024 16:55	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	12/26/2024 16:55	CGS	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	3.8	0.78	SW846 8270E	1	12/26/2024 16:55	CGS	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 16:55	CGS	D
mp-Cresol	13.1		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
Naphthalene	3120		ug/L	188	81.3	SW846 8270E	50	12/27/2024 14:14	CGS	D
Nitrobenzene	ND	ND	ug/L	7.5	1.5	SW846 8270E	1	12/26/2024 16:55	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	12/26/2024 16:55	CGS	D
o-Cresol	6.4J	J	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	12/26/2024 16:55	CGS	D
Phenanthrene	27.8		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D
Phenol	21.7		ug/L	20.0	1.3	SW846 8270E	1	12/26/2024 16:55	CGS	D
Pyrene	1.2J	J	ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 16:55	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	71%	23 – 131	12/26/2024 16:55	
2-Fluorobiphenyl	321-60-8	58.5%	24 – 116	12/26/2024 16:55	
2-Fluorophenol	367-12-4	32.8%	10 – 85	12/26/2024 16:55	
Nitrobenzene-d5	4165-60-0	52.7%	32 – 125	12/26/2024 16:55	
Phenol-d5	4165-62-2	24.4%	7 – 56	12/26/2024 16:55	
Terphenyl-d14	98904-43-9	64.8%	41 – 145	12/26/2024 16:55	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 05:17	PDK	A

Results

Client Sample ID	MW-34S-DUP	Collected	12/18/2024 09:20
Lab Sample ID	3393066002	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	146		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,3,5-Trimethylbenzene	42.7J	J	ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 05:17	PDK	A
Benzene	3550		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Ethylbenzene	100		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
mp-Xylene	381		ug/L	100	26.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
o-Xylene	239		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Styrene	31.9J	J	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Toluene	442		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Total Xylenes	619		ug/L	150	33.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:17	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:17	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 05:17	PDK	A

Results

Client Sample ID	MW-34S-DUP	Collected	12/18/2024 09:20
Lab Sample ID	3393066002	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98%	62 – 133	12/28/2024 05:17	
4-Bromofluorobenzene	460-00-4	97.8%	79 – 114	12/28/2024 05:17	
Dibromofluoromethane	1868-53-7	95.4%	78 – 116	12/28/2024 05:17	
Toluene-d8	2037-26-5	99%	76 – 127	12/28/2024 05:17	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	17	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	506	4,5	mg/L	50	50	SM2320B-2011	10	01/03/2025 10:56	KMV	I
Chloride	124		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 21:33	J1W	I
Nitrate-N	3.3		mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 21:33	J1W	I
pH	8.26	6	pH_Units			S4500HB-11	1	01/01/2025 04:58	JXK	I
Specific Conductance	2050		umhos/cm	5	0.1	SW846 9050A	1	12/30/2024 17:12	LMD	I
Sulfate	453		mg/L	5.0	3.5	SW846 9056A	5	12/19/2024 21:33	J1W	I
Total Dissolved Solids	1170		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	360		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	MW-34D	Collected	12/18/2024 11:20
Lab Sample ID	3393066003	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Arsenic, Dissolved	0.0094		mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Arsenic, Total	0.0052J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:28	MSY	E1
Barium, Dissolved	0.034		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Barium, Total	0.035		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Calcium, Dissolved	156		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Calcium, Total	152		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Chromium, Total	0.0027J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:42	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Copper, Total	0.0037J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Iron, Dissolved	0.24		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Iron, Total	0.30		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Magnesium, Dissolved	45.0		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Magnesium, Total	44.2		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Manganese, Dissolved	0.21		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Manganese, Total	0.21		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 11:03	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:44	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Potassium, Dissolved	7.9		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Potassium, Total	8.0		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Selenium, Total	0.042		mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Sodium, Dissolved	194		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Sodium, Total	196		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:20	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:03	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:20	MSY	E1

Results

Client Sample ID	MW-34D	Collected	12/18/2024 11:20
Lab Sample ID	3393066003	Lab Receipt	12/19/2024 09:26

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,4-Dimethylphenol	97.4		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	15.0	10.8	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	12/26/2024 18:13	CGS	D
2-Methylnaphthalene	429		ug/L	188	31.3	SW846 8270E	50	12/27/2024 16:24	CGS	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	12/26/2024 18:13	CGS	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 18:13	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
4-Nitrophenol	4.9J	J	ug/L	7.5	2.8	SW846 8270E	1	12/26/2024 18:13	CGS	D
Acenaphthene	11.3		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Acenaphthylene	85.6		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Acetophenone	7.3J	J	ug/L	7.5	2.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
Anthracene	22.6		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	3.8	0.70	SW846 8270E	1	12/26/2024 18:13	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 18:13	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	3.8	0.75	SW846 8270E	1	12/26/2024 18:13	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	3.8	0.90	SW846 8270E	1	12/26/2024 18:13	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	3.8	0.85	SW846 8270E	1	12/26/2024 18:13	CGS	D
Biphenyl	53.1		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 18:13	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	12/26/2024 18:13	CGS	D
Caprolactam	ND	ND	ug/L	7.5	0.90	SW846 8270E	1	12/26/2024 18:13	CGS	D
Carbazole	311J	J	ug/L	375	31.3	SW846 8270E	50	12/27/2024 16:24	CGS	D

Results

Client Sample ID	MW-34D	Collected	12/18/2024 11:20
Lab Sample ID	3393066003	Lab Receipt	12/19/2024 09:26

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 18:13	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	3.8	0.80	SW846 8270E	1	12/26/2024 18:13	CGS	D
Dibenzofuran	125		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Diethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 18:13	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Fluoranthene	13.5		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Fluorene	123		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	12/26/2024 18:13	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	12/26/2024 18:13	CGS	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	3.8	0.78	SW846 8270E	1	12/26/2024 18:13	CGS	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 18:13	CGS	D
mp-Cresol	27.6		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
Naphthalene	9800		ug/L	188	81.3	SW846 8270E	50	12/27/2024 16:24	CGS	D
Nitrobenzene	10.4		ug/L	7.5	1.5	SW846 8270E	1	12/26/2024 18:13	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	12/26/2024 18:13	CGS	D
o-Cresol	28.3		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	12/26/2024 18:13	CGS	D
Phenanthrene	114		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D
Phenol	29.5		ug/L	20.0	1.3	SW846 8270E	1	12/26/2024 18:13	CGS	D
Pyrene	7.9		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:13	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	98.9%	23 – 131	12/26/2024 18:13	
2-Fluorobiphenyl	321-60-8	79%	24 – 116	12/26/2024 18:13	
2-Fluorophenol	367-12-4	50.5%	10 – 85	12/26/2024 18:13	
Nitrobenzene-d5	4165-60-0	89.1%	32 – 125	12/26/2024 18:13	
Phenol-d5	4165-62-2	37.5%	7 – 56	12/26/2024 18:13	
Terphenyl-d14	98904-43-9	64.3%	41 – 145	12/26/2024 18:13	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 05:37	PDK	A

Results

Client Sample ID	MW-34D	Collected	12/18/2024 11:20
Lab Sample ID	3393066003	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	151		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,3,5-Trimethylbenzene	59.7		ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 05:37	PDK	A
Benzene	3810		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Ethylbenzene	104		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
mp-Xylene	405		ug/L	100	26.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
o-Xylene	239		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Styrene	63.4		ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Toluene	648		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Total Xylenes	643		ug/L	150	33.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:37	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:37	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 05:37	PDK	A

Results

Client Sample ID	MW-34D	Collected	12/18/2024 11:20
Lab Sample ID	3393066003	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/28/2024 05:37	
4-Bromofluorobenzene	460-00-4	94.6%	79 – 114	12/28/2024 05:37	
Dibromofluoromethane	1868-53-7	99.9%	78 – 116	12/28/2024 05:37	
Toluene-d8	2037-26-5	102%	76 – 127	12/28/2024 05:37	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	7	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	506	4,5	mg/L	50	50	SM2320B-2011	10	01/03/2025 11:06	KMV	I
Chloride	104		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 21:44	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 21:44	J1W	I
pH	8.43	6	pH_Units			S4500HB-11	1	01/01/2025 10:11	JXK	I
Specific Conductance	1950		umhos/cm	5	0.1	SW846 9050A	1	12/30/2024 17:12	LMD	I
Sulfate	450		mg/L	5.0	3.5	SW846 9056A	5	12/19/2024 21:44	J1W	I
Total Dissolved Solids	1500		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	550		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	MW-10S	Collected	12/18/2024 12:50
Lab Sample ID	3393066004	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Arsenic, Dissolved	0.0080J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Arsenic, Total	0.0082J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:29	MSY	E1
Barium, Dissolved	0.022		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Barium, Total	0.022		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Calcium, Dissolved	226		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Calcium, Total	220		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Chromium, Total	0.0021J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:43	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Copper, Total	0.0053J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Iron, Dissolved	0.30		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Iron, Total	0.34		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Magnesium, Dissolved	59.1		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Magnesium, Total	58.1		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Manganese, Dissolved	0.17		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Manganese, Total	0.17		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:55	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:40	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Potassium, Dissolved	2.3		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Potassium, Total	2.3		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Selenium, Total	0.020J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Sodium, Dissolved	183		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Sodium, Total	182		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:21	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:07	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:21	MSY	E1

Results

Client Sample ID	MW-10S	Collected	12/18/2024 12:50
Lab Sample ID	3393066004	Lab Receipt	12/19/2024 09:26

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
1,4-Dioxane	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,4-Dimethylphenol	267		ug/L	150	25.0	SW846 8270E	50	12/27/2024 17:42	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	6.0	4.3	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
2-Chlorophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	6.0	3.0	SW846 8270E	1	12/26/2024 19:05	CGS	D
2-Methylnaphthalene	88.9		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
2-Nitroaniline	ND	ND	ug/L	3.0	0.26	SW846 8270E	1	12/26/2024 19:05	CGS	D
2-Nitrophenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	16.0	8.5	SW846 8270E	1	12/26/2024 19:05	CGS	D
3-Nitroaniline	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 19:05	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
4-Chloroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
4-Nitroaniline	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
4-Nitrophenol	ND	ND	ug/L	3.0	1.1	SW846 8270E	1	12/26/2024 19:05	CGS	D
Acenaphthene	4.0		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Acenaphthylene	3.7		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Acetophenone	9.5		ug/L	3.0	0.90	SW846 8270E	1	12/26/2024 19:05	CGS	D
Anthracene	4.3		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Atrazine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Benzaldehyde	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	1.5	0.28	SW846 8270E	1	12/26/2024 19:05	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 19:05	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	1.5	0.30	SW846 8270E	1	12/26/2024 19:05	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	1.5	0.36	SW846 8270E	1	12/26/2024 19:05	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	1.5	0.34	SW846 8270E	1	12/26/2024 19:05	CGS	D
Biphenyl	13.8		ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	3.0	0.47	SW846 8270E	1	12/26/2024 19:05	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	3.0	0.31	SW846 8270E	1	12/26/2024 19:05	CGS	D
Caprolactam	ND	ND	ug/L	3.0	0.36	SW846 8270E	1	12/26/2024 19:05	CGS	D
Carbazole	131J	J	ug/L	150	12.5	SW846 8270E	50	12/27/2024 17:42	CGS	D

Results

Client Sample ID	MW-10S	Collected	12/18/2024 12:50
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SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	1.5	0.26	SW846 8270E	1	12/26/2024 19:05	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	1.5	0.32	SW846 8270E	1	12/26/2024 19:05	CGS	D
Dibenzofuran	30.7		ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Diethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Dimethylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 19:05	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Fluoranthene	3.9		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Fluorene	27.4		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Hexachlorobenzene	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	3.0	0.28	SW846 8270E	1	12/26/2024 19:05	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	3.0	0.43	SW846 8270E	1	12/26/2024 19:05	CGS	D
Hexachloroethane	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	1.5	0.31	SW846 8270E	1	12/26/2024 19:05	CGS	D
Isophorone	ND	ND	ug/L	3.0	0.37	SW846 8270E	1	12/26/2024 19:05	CGS	D
mp-Cresol	92.2		ug/L	3.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
Naphthalene	3490		ug/L	75.0	32.5	SW846 8270E	50	12/27/2024 17:42	CGS	D
Nitrobenzene	115		ug/L	3.0	0.58	SW846 8270E	1	12/26/2024 19:05	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	3.0	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	3.0	0.32	SW846 8270E	1	12/26/2024 19:05	CGS	D
o-Cresol	268		ug/L	150	25.0	SW846 8270E	50	12/27/2024 17:42	CGS	D
Pentachlorophenol	ND	ND	ug/L	8.0	1.4	SW846 8270E	1	12/26/2024 19:05	CGS	D
Phenanthrene	30.0		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D
Phenol	38.5		ug/L	8.0	0.50	SW846 8270E	1	12/26/2024 19:05	CGS	D
Pyrene	2.2		ug/L	1.5	0.25	SW846 8270E	1	12/26/2024 19:05	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	78%	23 – 131	12/26/2024 19:05	
2-Fluorobiphenyl	321-60-8	68.6%	24 – 116	12/26/2024 19:05	
2-Fluorophenol	367-12-4	42.6%	10 – 85	12/26/2024 19:05	
Nitrobenzene-d5	4165-60-0	76.2%	32 – 125	12/26/2024 19:05	
Phenol-d5	4165-62-2	32.2%	7 – 56	12/26/2024 19:05	
Terphenyl-d14	98904-43-9	51.1%	41 – 145	12/26/2024 19:05	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 05:57	PDK	A

Results

Client Sample ID	MW-10S	Collected	12/18/2024 12:50
Lab Sample ID	3393066004	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	155		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,3,5-Trimethylbenzene	62.7		ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 05:57	PDK	A
Benzene	4640		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Ethylbenzene	87.4		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
mp-Xylene	406		ug/L	100	26.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
o-Xylene	205		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Styrene	22.0J	J	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Toluene	711		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Total Xylenes	612		ug/L	150	33.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 05:57	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 05:57	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 05:57	PDK	A

Results

Client Sample ID	MW-10S	Collected	12/18/2024 12:50
Lab Sample ID	3393066004	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.4%	62 – 133	12/28/2024 05:57	
4-Bromofluorobenzene	460-00-4	98.3%	79 – 114	12/28/2024 05:57	
Dibromofluoromethane	1868-53-7	95.5%	78 – 116	12/28/2024 05:57	
Toluene-d8	2037-26-5	97.8%	76 – 127	12/28/2024 05:57	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	22	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	468	4,5	mg/L	50	50	SM2320B-2011	10	01/03/2025 11:17	KMV	I
Chloride	96.5		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 21:56	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 21:56	J1W	I
pH	8.37	6	pH_Units			S4500HB-11	1	01/01/2025 13:00	JXK	I
Specific Conductance	2530		umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	746		mg/L	10.0	7.0	SW846 9056A	10	12/20/2024 22:06	J1W	I
Total Dissolved Solids	1240		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	290		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	MW-26S	Collected	12/18/2024 09:25
Lab Sample ID	3393066005	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Arsenic, Dissolved	0.0050J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Arsenic, Total	0.0073J	J	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:30	MSY	E1
Barium, Dissolved	0.027		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Barium, Total	0.027		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Calcium, Dissolved	165		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Calcium, Total	163		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Chromium, Dissolved	0.016		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:49	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Copper, Total	0.0039J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Iron, Dissolved	0.17		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Iron, Total	0.14		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Magnesium, Dissolved	59.0		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Magnesium, Total	58.5		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Manganese, Dissolved	0.23		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Manganese, Total	0.22		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:52	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:36	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Potassium, Dissolved	3.5		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Potassium, Total	3.5		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Selenium, Total	0.022J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Sodium, Dissolved	150		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Sodium, Total	151		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:22	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:15	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:22	MSY	E1

Results

Client Sample ID	MW-26S	Collected	12/18/2024 09:25
Lab Sample ID	3393066005	Lab Receipt	12/19/2024 09:26

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,4-Dimethylphenol	3810		ug/L	150	25.0	SW846 8270E	20	12/27/2024 14:40	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	15.0	10.8	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	12/26/2024 17:21	CGS	D
2-Methylnaphthalene	470		ug/L	75.0	12.5	SW846 8270E	20	12/27/2024 14:40	CGS	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	12/26/2024 17:21	CGS	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 17:21	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
4-Nitrophenol	ND	ND	ug/L	7.5	2.8	SW846 8270E	1	12/26/2024 17:21	CGS	D
Acenaphthene	12.4		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Acenaphthylene	14.0		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Acetophenone	ND	ND	ug/L	7.5	2.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
Anthracene	19.4		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	3.8	0.70	SW846 8270E	1	12/26/2024 17:21	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 17:21	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	3.8	0.75	SW846 8270E	1	12/26/2024 17:21	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	3.8	0.90	SW846 8270E	1	12/26/2024 17:21	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	3.8	0.85	SW846 8270E	1	12/26/2024 17:21	CGS	D
Biphenyl	42.9		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 17:21	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	12/26/2024 17:21	CGS	D
Caprolactam	2.2J	J	ug/L	7.5	0.90	SW846 8270E	1	12/26/2024 17:21	CGS	D
Carbazole	401		ug/L	150	12.5	SW846 8270E	20	12/27/2024 14:40	CGS	D

Results

Client Sample ID	MW-26S	Collected	12/18/2024 09:25
Lab Sample ID	3393066005	Lab Receipt	12/19/2024 09:26

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 17:21	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	3.8	0.80	SW846 8270E	1	12/26/2024 17:21	CGS	D
Dibenzofuran	101		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Diethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 17:21	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Fluoranthene	11.8		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Fluorene	97.9		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	12/26/2024 17:21	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	12/26/2024 17:21	CGS	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	3.8	0.78	SW846 8270E	1	12/26/2024 17:21	CGS	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 17:21	CGS	D
mp-Cresol	639		ug/L	150	25.0	SW846 8270E	20	12/27/2024 14:40	CGS	D
Naphthalene	12900		ug/L	750	325	SW846 8270E	200	12/27/2024 15:06	CGS	D
Nitrobenzene	ND	ND	ug/L	7.5	1.5	SW846 8270E	1	12/26/2024 17:21	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	12/26/2024 17:21	CGS	D
o-Cresol	5570		ug/L	150	25.0	SW846 8270E	20	12/27/2024 14:40	CGS	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	12/26/2024 17:21	CGS	D
Phenanthrene	97.2		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D
Phenol	329		ug/L	20.0	1.3	SW846 8270E	1	12/26/2024 17:21	CGS	D
Pyrene	6.5		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:21	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	92.3%	23 – 131	12/26/2024 17:21	
2-Fluorobiphenyl	321-60-8	75.4%	24 – 116	12/26/2024 17:21	
2-Fluorophenol	367-12-4	44.2%	10 – 85	12/26/2024 17:21	
Nitrobenzene-d5	4165-60-0	88%	32 – 125	12/26/2024 17:21	
Phenol-d5	4165-62-2	34.2%	7 – 56	12/26/2024 17:21	
Terphenyl-d14	98904-43-9	62.5%	41 – 145	12/26/2024 17:21	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 06:57	PDK	A

Results

Client Sample ID	MW-26S	Collected	12/18/2024 09:25
Lab Sample ID	3393066005	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	534		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,3,5-Trimethylbenzene	201		ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 06:57	PDK	A
Benzene	14400		ug/L	500	115	SW846 8260D	500	12/30/2024 23:47	PDK	B
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Ethylbenzene	1040		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
mp-Xylene	894		ug/L	100	26.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
o-Xylene	452		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Styrene	19.7J	J	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Toluene	1190		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Total Xylenes	1350		ug/L	150	33.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:57	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:57	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 06:57	PDK	A

Results

Client Sample ID	MW-26S	Collected	12/18/2024 09:25
Lab Sample ID	3393066005	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	12/28/2024 06:57	
1,2-Dichloroethane-d4	17060-07-0	103%	62 – 133	12/30/2024 23:47	
4-Bromofluorobenzene	460-00-4	92.4%	79 – 114	12/28/2024 06:57	
4-Bromofluorobenzene	460-00-4	94.5%	79 – 114	12/30/2024 23:47	
Dibromofluoromethane	1868-53-7	103%	78 – 116	12/28/2024 06:57	
Dibromofluoromethane	1868-53-7	98.6%	78 – 116	12/30/2024 23:47	
Toluene-d8	2037-26-5	101%	76 – 127	12/28/2024 06:57	
Toluene-d8	2037-26-5	102%	76 – 127	12/30/2024 23:47	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	14	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	486	4,5	mg/L	50	50	SM2320B-2011	10	01/03/2025 11:39	KMV	I
Chloride	101		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 22:07	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 22:07	J1W	I
pH	8.29	6	pH_Units			S4500HB-11	1	01/01/2025 05:14	JXK	I
Specific Conductance	3120		umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	685		mg/L	10.0	7.0	SW846 9056A	10	12/20/2024 22:18	J1W	I
Total Dissolved Solids	1200		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	450		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	MW-26D	Collected	12/18/2024 10:50
Lab Sample ID	3393066006	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Arsenic, Dissolved	0.0072J	J	mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Arsenic, Total	ND	ND	mg/L	0.0090	0.0037	SW846 6010C	1	12/30/2024 10:32	MSY	E1
Barium, Dissolved	0.024		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Barium, Total	0.024		mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Calcium, Dissolved	252		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Calcium, Total	247		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Chromium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:50	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Copper, Total	0.0043J	J	mg/L	0.011	0.0036	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Iron, Dissolved	0.29		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Iron, Total	0.31		mg/L	0.067	0.022	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Magnesium, Dissolved	58.6		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Magnesium, Total	57.4		mg/L	0.11	0.036	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Manganese, Dissolved	0.52		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Manganese, Total	0.49		mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:56	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:41	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Potassium, Dissolved	4.0		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Potassium, Total	3.8		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Selenium, Total	0.021J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/30/2024 10:32	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Sodium, Dissolved	88.3		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Sodium, Total	88.6		mg/L	0.56	0.18	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	12/26/2024 12:44	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:17	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/26/2024 12:44	MSY	E1

Results

Client Sample ID	MW-26D	Collected	12/18/2024 10:50
Lab Sample ID	3393066006	Lab Receipt	12/19/2024 09:26

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,4-Dimethylphenol	563		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	15.0	10.8	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	12/26/2024 17:47	CGS	D
2-Methylnaphthalene	312		ug/L	37.5	6.3	SW846 8270E	10	12/27/2024 15:32	CGS	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	12/26/2024 17:47	CGS	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 17:47	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
4-Nitrophenol	ND	ND	ug/L	7.5	2.8	SW846 8270E	1	12/26/2024 17:47	CGS	D
Acenaphthene	8.5		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Acenaphthylene	2.2J	J	ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Acetophenone	ND	ND	ug/L	7.5	2.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
Anthracene	16.6		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	3.8	0.70	SW846 8270E	1	12/26/2024 17:47	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 17:47	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	3.8	0.75	SW846 8270E	1	12/26/2024 17:47	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	3.8	0.90	SW846 8270E	1	12/26/2024 17:47	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	3.8	0.85	SW846 8270E	1	12/26/2024 17:47	CGS	D
Biphenyl	29.9		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 17:47	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	12/26/2024 17:47	CGS	D
Caprolactam	ND	ND	ug/L	7.5	0.90	SW846 8270E	1	12/26/2024 17:47	CGS	D
Carbazole	345		ug/L	75.0	6.3	SW846 8270E	10	12/27/2024 15:32	CGS	D

Results

Client Sample ID	MW-26D	Collected	12/18/2024 10:50
Lab Sample ID	3393066006	Lab Receipt	12/19/2024 09:26

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 17:47	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	3.8	0.80	SW846 8270E	1	12/26/2024 17:47	CGS	D
Dibenzofuran	72.4		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Diethylphthalate	0.71J	J	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 17:47	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Fluoranthene	8.4		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Fluorene	79.4		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	12/26/2024 17:47	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	12/26/2024 17:47	CGS	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	3.8	0.78	SW846 8270E	1	12/26/2024 17:47	CGS	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 17:47	CGS	D
mp-Cresol	92.8		ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
Naphthalene	7310		ug/L	375	163	SW846 8270E	100	12/27/2024 15:58	CGS	D
Nitrobenzene	ND	ND	ug/L	7.5	1.5	SW846 8270E	1	12/26/2024 17:47	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	12/26/2024 17:47	CGS	D
o-Cresol	909		ug/L	75.0	12.5	SW846 8270E	10	12/27/2024 15:32	CGS	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	12/26/2024 17:47	CGS	D
Phenanthrene	70.5		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D
Phenol	42.4		ug/L	20.0	1.3	SW846 8270E	1	12/26/2024 17:47	CGS	D
Pyrene	4.7		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 17:47	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	60.3%	23 – 131	12/26/2024 17:47	
2-Fluorobiphenyl	321-60-8	54.8%	24 – 116	12/26/2024 17:47	
2-Fluorophenol	367-12-4	31.9%	10 – 85	12/26/2024 17:47	
Nitrobenzene-d5	4165-60-0	59.2%	32 – 125	12/26/2024 17:47	
Phenol-d5	4165-62-2	25.2%	7 – 56	12/26/2024 17:47	
Terphenyl-d14	98904-43-9	48.1%	41 – 145	12/26/2024 17:47	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 06:17	PDK	A

Results

Client Sample ID	MW-26D	Collected	12/18/2024 10:50
Lab Sample ID	3393066006	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	679		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,3,5-Trimethylbenzene	172		ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 06:17	PDK	A
Benzene	4060		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Ethylbenzene	587		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
mp-Xylene	483		ug/L	100	26.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
o-Xylene	267		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Styrene	16.6J	J	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Toluene	340		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Total Xylenes	750		ug/L	150	33.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:17	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:17	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 06:17	PDK	A

Results

Client Sample ID	MW-26D	Collected	12/18/2024 10:50
Lab Sample ID	3393066006	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	107%	62 – 133	12/28/2024 06:17	
4-Bromofluorobenzene	460-00-4	95.3%	79 – 114	12/28/2024 06:17	
Dibromofluoromethane	1868-53-7	104%	78 – 116	12/28/2024 06:17	
Toluene-d8	2037-26-5	102%	76 – 127	12/28/2024 06:17	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	52	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	534	4,5	mg/L	50	50	SM2320B-2011	10	01/03/2025 11:29	KMV	I
Chloride	37.2		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 22:19	J1W	I
Nitrate-N	2.0J	J	mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 22:19	J1W	I
pH	8.23	6	pH_Units			S4500HB-11	1	01/01/2025 08:54	JXK	I
Specific Conductance	2030		umhos/cm	5	0.1	SW846 9050A	1	12/30/2024 17:12	LMD	I
Sulfate	598		mg/L	10.0	7.0	SW846 9056A	10	12/20/2024 22:31	J1W	I
Total Dissolved Solids	1320		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	22		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	MW-10D	Collected	12/18/2024 12:15
Lab Sample ID	3393066007	Lab Receipt	12/19/2024 09:26

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Aluminum, Total	ND	ND	mg/L	0.11	0.036	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Antimony, Dissolved	ND	ND	mg/L	0.022	0.010	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Arsenic, Dissolved	0.010		mg/L	0.0090	0.0030	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Arsenic, Total	0.0043J	J	mg/L	0.0090	0.0037	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Barium, Dissolved	0.025		mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Barium, Total	0.025		mg/L	0.011	0.0036	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Beryllium, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Cadmium, Dissolved	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Calcium, Dissolved	166		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Calcium, Total	168		mg/L	0.11	0.036	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Chromium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Chromium, Total	0.0029J	J	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Cobalt, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 09:51	MSY	G1
Cobalt, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Copper, Dissolved	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Copper, Total	ND	ND	mg/L	0.011	0.0036	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Iron, Dissolved	0.29		mg/L	0.067	0.022	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Iron, Total	0.47		mg/L	0.067	0.022	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Lead, Dissolved	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Lead, Total	ND	ND	mg/L	0.0067	0.0022	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Magnesium, Dissolved	73.5		mg/L	0.11	0.036	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Magnesium, Total	73.7		mg/L	0.11	0.036	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Manganese, Dissolved	0.068		mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Manganese, Total	0.069		mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Mercury, Dissolved	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:57	AJN	G
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/23/2024 10:39	AJN	E
Nickel, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Nickel, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Potassium, Dissolved	3.2		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Potassium, Total	3.0		mg/L	0.56	0.18	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Selenium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Selenium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Silver, Dissolved	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Sodium, Dissolved	239		mg/L	0.56	0.18	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Sodium, Total	236		mg/L	0.56	0.18	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Thallium, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Vanadium, Dissolved	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Vanadium, Total	ND	ND	mg/L	0.0056	0.0020	SW846 6010C	1	01/03/2025 13:35	MSY	E1
Zinc, Dissolved	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/02/2025 12:23	MSY	G1
Zinc, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	01/03/2025 13:35	MSY	E1

Results

Client Sample ID	MW-10D	Collected	12/18/2024 12:15
Lab Sample ID	3393066007	Lab Receipt	12/19/2024 09:26

METALS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,3,4,6-Tetrachlorophenol	ND	ND,2	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,4-Dimethylphenol	2530		ug/L	75.0	12.5	SW846 8270E	10	12/27/2024 16:50	CGS	D
2,4-Dinitrophenol	ND	ND,1	ug/L	15.0	10.8	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	12/26/2024 18:39	CGS	D
2-Methylnaphthalene	349		ug/L	37.5	6.3	SW846 8270E	10	12/27/2024 16:50	CGS	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	12/26/2024 18:39	CGS	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 18:39	CGS	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
4-Nitrophenol	ND	ND	ug/L	7.5	2.8	SW846 8270E	1	12/26/2024 18:39	CGS	D
Acenaphthene	10.3		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Acenaphthylene	26.2		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Acetophenone	ND	ND	ug/L	7.5	2.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
Anthracene	13.5		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Benzo(a)anthracene	ND	ND	ug/L	3.8	0.70	SW846 8270E	1	12/26/2024 18:39	CGS	D
Benzo(a)pyrene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 18:39	CGS	D
Benzo(b)fluoranthene	ND	ND	ug/L	3.8	0.75	SW846 8270E	1	12/26/2024 18:39	CGS	D
Benzo(g,h,i)perylene	ND	ND	ug/L	3.8	0.90	SW846 8270E	1	12/26/2024 18:39	CGS	D
Benzo(k)fluoranthene	ND	ND	ug/L	3.8	0.85	SW846 8270E	1	12/26/2024 18:39	CGS	D
Biphenyl	39.6		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	12/26/2024 18:39	CGS	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	12/26/2024 18:39	CGS	D
Caprolactam	ND	ND	ug/L	7.5	0.90	SW846 8270E	1	12/26/2024 18:39	CGS	D
Carbazole	360		ug/L	75.0	6.3	SW846 8270E	10	12/27/2024 16:50	CGS	D

Results

Client Sample ID	MW-10D	Collected	12/18/2024 12:15
Lab Sample ID	3393066007	Lab Receipt	12/19/2024 09:26

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chrysene	ND	ND	ug/L	3.8	0.65	SW846 8270E	1	12/26/2024 18:39	CGS	D
Dibenzo(a,h)anthracene	ND	ND	ug/L	3.8	0.80	SW846 8270E	1	12/26/2024 18:39	CGS	D
Dibenzofuran	82.2		ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Diethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 18:39	CGS	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Fluoranthene	11.1		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Fluorene	70.2		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	12/26/2024 18:39	CGS	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	12/26/2024 18:39	CGS	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Indeno(1,2,3-cd)pyrene	ND	ND	ug/L	3.8	0.78	SW846 8270E	1	12/26/2024 18:39	CGS	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	12/26/2024 18:39	CGS	D
mp-Cresol	2060		ug/L	75.0	12.5	SW846 8270E	10	12/27/2024 16:50	CGS	D
Naphthalene	11900		ug/L	3750	1630	SW846 8270E	1000	12/27/2024 17:16	CGS	D
Nitrobenzene	ND	ND	ug/L	7.5	1.5	SW846 8270E	1	12/26/2024 18:39	CGS	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	12/26/2024 18:39	CGS	D
o-Cresol	3640		ug/L	75.0	12.5	SW846 8270E	10	12/27/2024 16:50	CGS	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	12/26/2024 18:39	CGS	D
Phenanthrene	71.4		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D
Phenol	351		ug/L	20.0	1.3	SW846 8270E	1	12/26/2024 18:39	CGS	D
Pyrene	7.0		ug/L	3.8	0.63	SW846 8270E	1	12/26/2024 18:39	CGS	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	87.3%	23 – 131	12/26/2024 18:39	
2-Fluorobiphenyl	321-60-8	78.9%	24 – 116	12/26/2024 18:39	
2-Fluorophenol	367-12-4	47.8%	10 – 85	12/26/2024 18:39	
Nitrobenzene-d5	4165-60-0	88%	32 – 125	12/26/2024 18:39	
Phenol-d5	4165-62-2	37%	7 – 56	12/26/2024 18:39	
Terphenyl-d14	98904-43-9	55.6%	41 – 145	12/26/2024 18:39	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	100	46.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	100	30.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	100	41.0	SW846 8260D	50	12/28/2024 06:37	PDK	A

Results

Client Sample ID	MW-10D	Collected	12/18/2024 12:15
Lab Sample ID	3393066007	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4-Trimethylbenzene	170		ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	350	75.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	50.0	14.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	50.0	19.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,3,5-Trimethylbenzene	76.7		ug/L	50.0	10.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	50.0	12.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
2-Butanone	ND	ND	ug/L	500	90.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
2-Hexanone	ND	ND	ug/L	250	65.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	250	75.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Acetone	ND	ND	ug/L	500	155	SW846 8260D	50	12/28/2024 06:37	PDK	A
Benzene	10400		ug/L	250	57.5	SW846 8260D	250	12/30/2024 23:27	PDK	B
Bromochloromethane	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Bromodichloromethane	ND	ND	ug/L	50.0	13.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Bromoform	ND	ND	ug/L	50.0	20.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Bromomethane	ND	ND	ug/L	50.0	19.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Carbon Disulfide	ND	ND	ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Chlorobenzene	ND	ND	ug/L	50.0	9.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Chlorodibromomethane	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Chloroethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Chloroform	ND	ND	ug/L	50.0	10.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Chloromethane	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	50.0	16.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	50.0	15.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Cyclohexane	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Ethylbenzene	107		ug/L	50.0	17.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Freon 113	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Isopropylbenzene	ND	ND	ug/L	50.0	11.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Methyl acetate	ND	ND	ug/L	100	16.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Methyl cyclohexane	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Methylene Chloride	ND	ND	ug/L	50.0	22.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
mp-Xylene	604		ug/L	100	26.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
o-Xylene	283		ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Styrene	25.9J	J	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Tetrachloroethene	ND	ND	ug/L	50.0	17.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Toluene	1500		ug/L	50.0	11.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Total Xylenes	887		ug/L	150	33.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	50.0	13.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	50.0	14.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Trichloroethene	ND	ND	ug/L	50.0	16.5	SW846 8260D	50	12/28/2024 06:37	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	50.0	12.0	SW846 8260D	50	12/28/2024 06:37	PDK	A
Vinyl Chloride	ND	ND	ug/L	50.0	15.0	SW846 8260D	50	12/28/2024 06:37	PDK	A

Results

Client Sample ID	MW-10D	Collected	12/18/2024 12:15
Lab Sample ID	3393066007	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	100%	62 – 133	12/30/2024 23:27	
1,2-Dichloroethane-d4	17060-07-0	94.3%	62 – 133	12/28/2024 06:37	
4-Bromofluorobenzene	460-00-4	98.7%	79 – 114	12/30/2024 23:27	
4-Bromofluorobenzene	460-00-4	93.3%	79 – 114	12/28/2024 06:37	
Dibromofluoromethane	1868-53-7	96.1%	78 – 116	12/30/2024 23:27	
Dibromofluoromethane	1868-53-7	91%	78 – 116	12/28/2024 06:37	
Toluene-d8	2037-26-5	98.6%	76 – 127	12/30/2024 23:27	
Toluene-d8	2037-26-5	92.6%	76 – 127	12/28/2024 06:37	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acidity, Total	11	3	mg/L	5	5	SM2310B-2011	1	12/27/2024 11:15	E1R	I
Alkalinity, Total	403	4,5	mg/L	5	5	SM2320B-2011	1	01/03/2025 12:29	KMV	I
Chloride	180		mg/L	5.0	2.2	SW846 9056A	5	12/19/2024 23:16	J1W	I
Nitrate-N	ND	ND	mg/L	2.5	0.80	SW846 9056A	5	12/19/2024 23:16	J1W	I
pH	8.37	6	pH_Units			S4500HB-11	1	01/01/2025 12:20	JXK	I
Specific Conductance	2650		umhos/cm	50	1	SW846 9050A	10	12/30/2024 17:12	LMD	I
Sulfate	836		mg/L	10.0	7.0	SW846 9056A	10	12/20/2024 22:43	J1W	I
Total Dissolved Solids	1530		mg/L	25	25	SM2540C-15	1	12/23/2024 18:00	RAG	I
Turbidity	380		NTU	0.30	0.30	SM2130B-2011	1	12/20/2024 08:21	NPF	I

Results

Client Sample ID	TB-46	Collected	12/18/2024 12:15
Lab Sample ID	3393066008	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,1,2-Trichloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,1-Dichloroethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,1-Dichloroethene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	2.0	0.93	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2,3-Trichloropropane	ND	ND	ug/L	2.0	0.60	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	2.0	0.82	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2,4-Trimethylbenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	7.0	1.5	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2-Dibromoethane	ND	ND	ug/L	1.0	0.28	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2-Dichlorobenzene	ND	ND	ug/L	1.0	0.38	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2-Dichloroethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,2-Dichloropropane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,3,5-Trimethylbenzene	ND	ND	ug/L	1.0	0.20	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,3-Dichlorobenzene	ND	ND	ug/L	1.0	0.25	SW846 8260D	1	12/28/2024 00:39	PDK	A
1,4-Dichlorobenzene	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/28/2024 00:39	PDK	A
2-Butanone	ND	ND	ug/L	10.0	1.8	SW846 8260D	1	12/28/2024 00:39	PDK	A
2-Hexanone	ND	ND	ug/L	5.0	1.3	SW846 8260D	1	12/28/2024 00:39	PDK	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	5.0	1.5	SW846 8260D	1	12/28/2024 00:39	PDK	A
Acetone	ND	ND	ug/L	10.0	3.1	SW846 8260D	1	12/28/2024 00:39	PDK	A
Benzene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/28/2024 00:39	PDK	A
Bromochloromethane	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/28/2024 00:39	PDK	A
Bromodichloromethane	ND	ND	ug/L	1.0	0.27	SW846 8260D	1	12/28/2024 00:39	PDK	A
Bromoform	ND	ND	ug/L	1.0	0.40	SW846 8260D	1	12/28/2024 00:39	PDK	A
Bromomethane	ND	ND	ug/L	1.0	0.39	SW846 8260D	1	12/28/2024 00:39	PDK	A
Carbon Disulfide	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/28/2024 00:39	PDK	A
Carbon Tetrachloride	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/28/2024 00:39	PDK	A
Chlorobenzene	ND	ND	ug/L	1.0	0.19	SW846 8260D	1	12/28/2024 00:39	PDK	A
Chlorodibromomethane	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/28/2024 00:39	PDK	A
Chloroethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/28/2024 00:39	PDK	A
Chloroform	ND	ND	ug/L	1.0	0.21	SW846 8260D	1	12/28/2024 00:39	PDK	A
Chloromethane	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/28/2024 00:39	PDK	A
cis-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.32	SW846 8260D	1	12/28/2024 00:39	PDK	A
cis-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.31	SW846 8260D	1	12/28/2024 00:39	PDK	A
Cyclohexane	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/28/2024 00:39	PDK	A
Dichlorodifluoromethane	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/28/2024 00:39	PDK	A
Ethylbenzene	ND	ND	ug/L	1.0	0.34	SW846 8260D	1	12/28/2024 00:39	PDK	A
Freon 113	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/28/2024 00:39	PDK	A
Isopropylbenzene	ND	ND	ug/L	1.0	0.22	SW846 8260D	1	12/28/2024 00:39	PDK	A
Methyl acetate	ND	ND	ug/L	2.0	0.32	SW846 8260D	1	12/28/2024 00:39	PDK	A
Methyl cyclohexane	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/28/2024 00:39	PDK	A
Methyl t-Butyl Ether	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/28/2024 00:39	PDK	A
Methylene Chloride	ND	ND	ug/L	1.0	0.45	SW846 8260D	1	12/28/2024 00:39	PDK	A
mp-Xylene	ND	ND	ug/L	2.0	0.52	SW846 8260D	1	12/28/2024 00:39	PDK	A
o-Xylene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/28/2024 00:39	PDK	A
Styrene	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/28/2024 00:39	PDK	A

Results

Client Sample ID	TB-46	Collected	12/18/2024 12:15
Lab Sample ID	3393066008	Lab Receipt	12/19/2024 09:26

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Tetrachloroethene	ND	ND	ug/L	1.0	0.35	SW846 8260D	1	12/28/2024 00:39	PDK	A
Toluene	ND	ND	ug/L	1.0	0.23	SW846 8260D	1	12/28/2024 00:39	PDK	A
Total Xylenes	ND	ND	ug/L	3.0	0.66	SW846 8260D	1	12/28/2024 00:39	PDK	A
trans-1,2-Dichloroethene	ND	ND	ug/L	1.0	0.26	SW846 8260D	1	12/28/2024 00:39	PDK	A
trans-1,3-Dichloropropene	ND	ND	ug/L	1.0	0.29	SW846 8260D	1	12/28/2024 00:39	PDK	A
Trichloroethene	ND	ND	ug/L	1.0	0.33	SW846 8260D	1	12/28/2024 00:39	PDK	A
Trichlorofluoromethane	ND	ND	ug/L	1.0	0.24	SW846 8260D	1	12/28/2024 00:39	PDK	A
Vinyl Chloride	ND	ND	ug/L	1.0	0.30	SW846 8260D	1	12/28/2024 00:39	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	62 – 133	12/28/2024 00:39	
4-Bromofluorobenzene	460-00-4	99.1%	79 – 114	12/28/2024 00:39	
Dibromofluoromethane	1868-53-7	102%	78 – 116	12/28/2024 00:39	
Toluene-d8	2037-26-5	107%	76 – 127	12/28/2024 00:39	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3393066001	MW-34S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3393066002	MW-34S-DUP	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3393066003	MW-34D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
3393066004	MW-10S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3393066005	MW-26S	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3393066006	MW-26D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3393066007	MW-10D	SW846 6010C	SW846 3015A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 7470A	SW846 7470A	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		S4500HB-11	N/A	
		SM2130B-2011	N/A	
		SM2310B-2011	N/A	
		SM2320B-2011	N/A	
		SM2540C-15	N/A	
		SW846 9050A	N/A	
		SW846 9056A	N/A	
		SW846 9056A	N/A	
3393066008	TB-46	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1358105	Prep Method	SW846 3015A
Date	12/20/2024 11:38	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Matrix Spike 3921367 (MS) 3392316004 (non-Project Sample) For QC Batch 1358105

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921368 (MSD) 3392316004 (non-Project Sample) For QC Batch 1358105

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	MS	1.1	0	1.10	102	75 - 125		
Aluminum, Dissolved	7429-90-5_D	MSD	1.1	0	1.10	101	75 - 125	RPD 0.87 (Max-20)	
Antimony, Dissolved	7440-36-0_D	MS	0.12	0	0.22	52.8*	75 - 125		
Antimony, Dissolved	7440-36-0_D	MSD	0.11	0	0.22	49.6*	75 - 125	RPD 6.15 (Max-20)	
Arsenic, Dissolved	7440-38-2_D	MS	0.12	0.000560	0.11	105	75 - 125		
Arsenic, Dissolved	7440-38-2_D	MSD	0.12	0.000560	0.11	106	75 - 125	RPD 1.41 (Max-20)	
Barium, Dissolved	7440-39-3_D	MS	1.2	0.0130	1.10	103	75 - 125		
Barium, Dissolved	7440-39-3_D	MSD	1.1	0.0130	1.10	102	75 - 125	RPD 0.78 (Max-20)	
Beryllium, Dissolved	7440-41-7_D	MS	0.23	0	0.22	104	75 - 125		
Beryllium, Dissolved	7440-41-7_D	MSD	0.23	0	0.22	103	75 - 125	RPD 0.72 (Max-20)	
Cadmium, Dissolved	7440-43-9_D	MS	0.11	0.000560	0.11	99.8	75 - 125		
Cadmium, Dissolved	7440-43-9_D	MSD	0.11	0.000560	0.11	99.2	75 - 125	RPD 0.60 (Max-20)	
Calcium, Dissolved	7440-70-2_D	MS	452	455	1.10	NC	75 - 125		
Calcium, Dissolved	7440-70-2_D	MSD	453	455	1.10	NC	75 - 125	RPD 0.21 (Max-20)	
Chromium, Dissolved	7440-47-3_D	MS	0.12	0.0026	0.11	103	75 - 125		
Chromium, Dissolved	7440-47-3_D	MSD	0.12	0.0026	0.11	102	75 - 125	RPD 0.86 (Max-20)	
Cobalt, Dissolved	7440-48-4_D	MS	1.1	0	1.10	101	75 - 125		
Cobalt, Dissolved	7440-48-4_D	MSD	1.1	0	1.10	101	75 - 125	RPD 0.05 (Max-20)	
Copper, Dissolved	7440-50-8_D	MS	1.2	0.0230	1.10	104	75 - 125		
Copper, Dissolved	7440-50-8_D	MSD	1.2	0.0230	1.10	104	75 - 125	RPD 0.87 (Max-20)	
Iron, Dissolved	7439-89-6_D	MS	1.2	0.0640	1.10	101	75 - 125		
Iron, Dissolved	7439-89-6_D	MSD	1.2	0.0640	1.10	101	75 - 125	RPD 0.78 (Max-20)	
Lead, Dissolved	7439-92-1_D	MS	0.1	0	0.11	93.5	75 - 125		
Lead, Dissolved	7439-92-1_D	MSD	0.1	0	0.11	93.3	75 - 125	RPD 0.21 (Max-20)	
Magnesium, Dissolved	7439-95-4_D	MS	55.5	54.90	1.10	NC	75 - 125		
Magnesium, Dissolved	7439-95-4_D	MSD	55.6	54.90	1.10	NC	75 - 125	RPD 0.22 (Max-20)	
Manganese, Dissolved	7439-96-5_D	MS	0.16	0.0440	0.11	106	75 - 125		
Manganese, Dissolved	7439-96-5_D	MSD	0.16	0.0440	0.11	108	75 - 125	RPD 0.95 (Max-20)	
Nickel, Dissolved	7440-02-0_D	MS	1.1	0.0056	1.10	99.3	75 - 125		
Nickel, Dissolved	7440-02-0_D	MSD	1.1	0.0056	1.10	99	75 - 125	RPD 0.30 (Max-20)	
Potassium, Dissolved	7440-09-7_D	MS	26.4	3.20	22.20	105	75 - 125		
Potassium, Dissolved	7440-09-7_D	MSD	26.4	3.20	22.20	105	75 - 125	RPD 0.12 (Max-20)	
Selenium, Dissolved	7782-49-2_D	MS	1.4	0.27	1.10	105	75 - 125		
Selenium, Dissolved	7782-49-2_D	MSD	1.4	0.27	1.10	105	75 - 125	RPD 0.14 (Max-20)	
Silver, Dissolved	7440-22-4_D	MS	0.12	0	0.11	108	75 - 125		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Silver, Dissolved	7440-22-4_D	MSD	0.12	0	0.11	107	75 - 125	RPD 0.56 (Max-20)	
Sodium, Dissolved	7440-23-5_D	MS	121	99	22.20	NC	75 - 125		
Sodium, Dissolved	7440-23-5_D	MSD	121	99	22.20	NC	75 - 125	RPD 0.32 (Max-20)	
Thallium, Dissolved	7440-28-0_D	MS	0.1	0	0.11	92.6	75 - 125		
Thallium, Dissolved	7440-28-0_D	MSD	0.1	0	0.11	93.8	75 - 125	RPD 1.29 (Max-20)	
Vanadium, Dissolved	7440-62-2_D	MS	0.056	0	0.0560	101	75 - 125		
Vanadium, Dissolved	7440-62-2_D	MSD	0.056	0	0.0560	100	75 - 125	RPD 0.79 (Max-20)	
Zinc, Dissolved	7440-66-6_D	MS	0.65	0.12	0.56	95.2	75 - 125		
Zinc, Dissolved	7440-66-6_D	MSD	0.64	0.12	0.56	94.9	75 - 125	RPD 0.26 (Max-20)	

Method Blank 3921365 (MB) Created on 12/20/2024 07:53 For QC Batch 1358105

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Dissolved	7429-90-5_D	BLK	ND	mg/L	0.11	ND
Antimony, Dissolved	7440-36-0_D	BLK	ND	mg/L	0.022	ND
Arsenic, Dissolved	7440-38-2_D	BLK	ND	mg/L	0.0090	ND
Barium, Dissolved	7440-39-3_D	BLK	ND	mg/L	0.011	ND
Beryllium, Dissolved	7440-41-7_D	BLK	ND	mg/L	0.0044	ND
Cadmium, Dissolved	7440-43-9_D	BLK	ND	mg/L	0.0022	ND
Calcium, Dissolved	7440-70-2_D	BLK	ND	mg/L	0.11	ND
Chromium, Dissolved	7440-47-3_D	BLK	ND	mg/L	0.0056	ND
Cobalt, Dissolved	7440-48-4_D	BLK	ND	mg/L	0.0056	ND
Copper, Dissolved	7440-50-8_D	BLK	ND	mg/L	0.011	ND
Iron, Dissolved	7439-89-6_D	BLK	ND	mg/L	0.067	ND
Lead, Dissolved	7439-92-1_D	BLK	ND	mg/L	0.0067	ND
Magnesium, Dissolved	7439-95-4_D	BLK	ND	mg/L	0.11	ND
Manganese, Dissolved	7439-96-5_D	BLK	ND	mg/L	0.0056	ND
Nickel, Dissolved	7440-02-0_D	BLK	ND	mg/L	0.022	ND
Potassium, Dissolved	7440-09-7_D	BLK	ND	mg/L	0.56	ND
Selenium, Dissolved	7782-49-2_D	BLK	ND	mg/L	0.022	ND
Silver, Dissolved	7440-22-4_D	BLK	ND	mg/L	0.0044	ND
Sodium, Dissolved	7440-23-5_D	BLK	ND	mg/L	0.56	ND
Thallium, Dissolved	7440-28-0_D	BLK	ND	mg/L	0.022	ND
Vanadium, Dissolved	7440-62-2_D	BLK	ND	mg/L	0.0056	ND
Zinc, Dissolved	7440-66-6_D	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3921366 (LCS) Created on 12/20/2024 07:53 For QC Batch 1358105

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Dissolved	7429-90-5_D	LCS	1.2		1.10	104	80 - 120		
Antimony, Dissolved	7440-36-0_D	LCS	0.18		0.22	81	80 - 120		
Arsenic, Dissolved	7440-38-2_D	LCS	0.12		0.11	106	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Barium, Dissolved	7440-39-3_D	LCS	1.2		1.10	108	80 - 120		
Beryllium, Dissolved	7440-41-7_D	LCS	0.24		0.22	108	80 - 120		
Cadmium, Dissolved	7440-43-9_D	LCS	0.12		0.11	108	80 - 120		
Calcium, Dissolved	7440-70-2_D	LCS	1.2		1.10	104	80 - 120		
Chromium, Dissolved	7440-47-3_D	LCS	0.12		0.11	108	80 - 120		
Cobalt, Dissolved	7440-48-4_D	LCS	1.2		1.10	108	80 - 120		
Copper, Dissolved	7440-50-8_D	LCS	1.1		1.10	103	80 - 120		
Iron, Dissolved	7439-89-6_D	LCS	1.2		1.10	106	80 - 120		
Lead, Dissolved	7439-92-1_D	LCS	0.12		0.11	108	80 - 120		
Magnesium, Dissolved	7439-95-4_D	LCS	1.2		1.10	107	80 - 120		
Manganese, Dissolved	7439-96-5_D	LCS	0.13		0.11	113	80 - 120		
Nickel, Dissolved	7440-02-0_D	LCS	1.2		1.10	107	80 - 120		
Potassium, Dissolved	7440-09-7_D	LCS	23		22.20	104	80 - 120		
Selenium, Dissolved	7782-49-2_D	LCS	1.2		1.10	104	80 - 120		
Silver, Dissolved	7440-22-4_D	LCS	0.12		0.11	107	80 - 120		
Sodium, Dissolved	7440-23-5_D	LCS	23.6		22.20	106	80 - 120		
Thallium, Dissolved	7440-28-0_D	LCS	0.11		0.11	97.7	80 - 120		
Vanadium, Dissolved	7440-62-2_D	LCS	0.06		0.0560	107	80 - 120		
Zinc, Dissolved	7440-66-6_D	LCS	0.58		0.56	105	80 - 120		

QC Batch

QC Batch	1358109	Prep Method	SW846 3015A
Date	12/20/2024 10:30	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006		

Matrix Spike 3921373 (MS) 3392603001 (non-Project Sample) For QC Batch 1358109

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921374 (MSD) 3392603001 (non-Project Sample) For QC Batch 1358109

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Calcium, Total	7440-70-2	MS	89.7	88.80	1.10	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	89.5	88.80	1.10	NC	75 - 125	RPD 0.21 (Max-20)	
Iron, Total	7439-89-6	MS	1.1	0.01	1.10	102	75 - 125		
Iron, Total	7439-89-6	MSD	1.1	0.01	1.10	102	75 - 125	RPD 0.05 (Max-20)	
Magnesium, Total	7439-95-4	MS	43.5	42.50	1.10	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	43.6	42.50	1.10	NC	75 - 125	RPD 0.13 (Max-20)	
Manganese, Total	7439-96-5	MS	0.12	0	0.11	104	75 - 125		
Manganese, Total	7439-96-5	MSD	0.11	0	0.11	102	75 - 125	RPD 1.75 (Max-20)	
Potassium, Total	7440-09-7	MS	26.9	3.50	22.20	105	75 - 125		
Potassium, Total	7440-09-7	MSD	26.7	3.50	22.20	105	75 - 125	RPD 0.78 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sodium, Total	7440-23-5	MS	48.5	25.40	22.20	104	75 - 125		
Sodium, Total	7440-23-5	MSD	48.2	25.40	22.20	103	75 - 125	RPD 0.56 (Max-20)	

Method Blank 3921371 (MB) Created on 12/20/2024 07:55 For QC Batch 1358109

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3921372 (LCS) Created on 12/20/2024 07:55 For QC Batch 1358109

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.2		1.10	105	80 - 120		
Antimony, Total	7440-36-0	LCS	0.23		0.22	105	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.11		0.11	101	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	108	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.24		0.22	108	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	106	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	103	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	107	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	105	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Copper, Total	7440-50-8	LCS	1.1		1.10	103	80 - 120		
Iron, Total	7439-89-6	LCS	1.2		1.10	105	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	108	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	108	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	107	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	106	80 - 120		
Potassium, Total	7440-09-7	LCS	22.8		22.20	103	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	107	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	107	80 - 120		
Sodium, Total	7440-23-5	LCS	23.4		22.20	105	80 - 120		
Thallium, Total	7440-28-0	LCS	0.1		0.11	93.4	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.06		0.0560	108	80 - 120		
Zinc, Total	7440-66-6	LCS	0.58		0.56	105	80 - 120		

QC Batch

QC Batch	1359512	Prep Method	SW846 7470A
Date	12/23/2024 07:29	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Matrix Spike 3922056 (MS) 3392940002 (non-Project Sample) For QC Batch 1359512

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3922057 (MSD) 3392940002 (non-Project Sample) For QC Batch 1359512

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0054	0.000002	0.0050	107	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0047	0.000002	0.0050	94.6	70 - 130	RPD 12.70 (Max-20)	

Method Blank 3922054 (MB) Created on 12/23/2024 06:35 For QC Batch 1359512

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3922055 (LCS) Created on 12/23/2024 06:35 For QC Batch 1359512

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0021		0.0020	104	85 - 115		

QC Batch

QC Batch	1359513	Prep Method	SW846 7470A
Date	12/23/2024 07:29	Analysis Method	SW846 7470A
Tech.	AJN		

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Method Blank 3922058 (MB) Created on 12/23/2024 06:37 For QC Batch 1359513

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Dissolved	7439-97-6_D	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3922059 (LCS) Created on 12/23/2024 06:37 For QC Batch 1359513

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	LCS	0.002		0.0020	101	85 - 115		

Matrix Spike 3922060 (MS) 3393066005 For QC Batch 1359513

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3922061 (MSD) 3393066005 For QC Batch 1359513

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Dissolved	7439-97-6_D	MS	0.0051	0	0.0050	103	70 - 130		
Mercury, Dissolved	7439-97-6_D	MSD	0.0053	0	0.0050	106	70 - 130	RPD 3.07 (Max-20)	

QC Batch

QC Batch	1360498	Prep Method	SW846 3015A
Date	12/24/2024 10:56	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3393066007

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3922794 (MS) 3392545003 (non-Project Sample) For QC Batch 1360498

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3922795 (MSD) 3392545003 (non-Project Sample) For QC Batch 1360498

Method Blank 3922792 (MB) Created on 12/24/2024 06:44 For QC Batch 1360498

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

Lab Control Standard 3922793 (LCS) Created on 12/24/2024 06:44 For QC Batch 1360498

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.1		1.10	101	80 - 120		
Antimony, Total	7440-36-0	LCS	0.18		0.22	81.5	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.12		0.11	104	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	106	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.23		0.22	106	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	105	80 - 120		
Calcium, Total	7440-70-2	LCS	1		1.10	94	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	105	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	108	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	102	80 - 120		

QUALITY CONTROL SAMPLES

METALS (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Iron, Total	7439-89-6	LCS	1.2		1.10	106	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	105	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.2		1.10	105	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	111	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	106	80 - 120		
Potassium, Total	7440-09-7	LCS	22.9		22.20	103	80 - 120		
Selenium, Total	7782-49-2	LCS	1.1		1.10	101	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	106	80 - 120		
Sodium, Total	7440-23-5	LCS	23.6		22.20	106	80 - 120		
Thallium, Total	7440-28-0	LCS	0.12		0.11	104	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.054		0.0560	97.6	80 - 120		
Zinc, Total	7440-66-6	LCS	0.58		0.56	104	80 - 120		

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1359701	Prep Method	SW846 3510C
Date	12/23/2024 23:25	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Matrix Spike 3922508 (MS) 3391292001 (non-Project Sample) For QC Batch 1359701

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3922509 (MSD) 3391292001 (non-Project Sample) For QC Batch 1359701

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2,4,5-Trichlorophenol	95-95-4	MS	373	0	500	74.6	44 - 148		
2,4,5-Trichlorophenol	95-95-4	MSD	501	0	500	100	44 - 148	RPD 29.30* (Max-23)	
2,4,6-Trichlorophenol	88-06-2	MS	342	0	500	68.3	41 - 148		
2,4,6-Trichlorophenol	88-06-2	MSD	468	0	500	93.6	41 - 148	RPD 31.20* (Max-23)	
2,4-Dinitrotoluene	121-14-2	MS	197	0	250	78.9	49 - 138		
2,4-Dinitrotoluene	121-14-2	MSD	256	0	250	103	49 - 138	RPD 26.10* (Max-22)	
Hexachlorobenzene	118-74-1	MS	155	0	250	61.8	59 - 109		
Hexachlorobenzene	118-74-1	MSD	217	0	250	86.8	59 - 109	RPD 33.60* (Max-21)	
Hexachlorobutadiene	87-68-3	MS	79.6	0	250	31.8	5 - 126		
Hexachlorobutadiene	87-68-3	MSD	116	0	250	46.3	5 - 126	RPD 37* (Max-30)	
Hexachloroethane	67-72-1	MS	57.6	0	250	23.1	5 - 111		
Hexachloroethane	67-72-1	MSD	86.4	0	250	34.6	5 - 111	RPD 40* (Max-30)	
mp-Cresol	108394/106445	MS	256	0	500	51.2	28 - 128		
mp-Cresol	108394/106445	MSD	362	0	500	72.4	28 - 128	RPD 34.30* (Max-20)	
Naphthalene	91-20-3	MS	110	4.50	250	42.1	21 - 123		
Naphthalene	91-20-3	MSD	157	4.50	250	60.8	21 - 123	RPD 35.10* (Max-30)	
Nitrobenzene	98-95-3	MS	108	0	250	43.2	41 - 128		
Nitrobenzene	98-95-3	MSD	155	0	250	62	41 - 128	RPD 35.70* (Max-19)	
o-Cresol	95-48-7	MS	242	0	500	48.4	34 - 136		
o-Cresol	95-48-7	MSD	351	0	500	70.2	34 - 136	RPD 36.70* (Max-23)	
Pentachlorophenol	87-86-5	MS	325	0	500	65	41 - 149		
Pentachlorophenol	87-86-5	MSD	450	0	500	90.1	41 - 149	RPD 32.40* (Max-28)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	MS	367	500	73.4	23 - 131	
2,4,6-Tribromophenol	118-79-6	MSD	515	500	103	23 - 131	
2-Fluorobiphenyl	321-60-8	MS	150	250	59.8	24 - 116	
2-Fluorobiphenyl	321-60-8	MSD	205	250	82.2	24 - 116	
2-Fluorophenol	367-12-4	MS	181	500	36.1	10 - 85	
2-Fluorophenol	367-12-4	MSD	275	500	55.1	10 - 85	
Nitrobenzene-d5	4165-60-0	MS	137	250	54.8	32 - 125	
Nitrobenzene-d5	4165-60-0	MSD	201	250	80.2	32 - 125	

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Phenol-d5	4165-62-2	MS	131	500	26.2	7 - 56	
Phenol-d5	4165-62-2	MSD	188	500	37.6	7 - 56	
Terphenyl-d14	98904-43-9	MS	171	250	68.5	41 - 145	
Terphenyl-d14	98904-43-9	MSD	243	250	97.3	41 - 145	

Method Blank 3922506 (MB) Created on 12/23/2024 13:04 For QC Batch 1359701

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	83.7	100	83.7	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	39.4	50	78.8	24 - 116	
2-Fluorophenol	367-12-4	BLK	55.5	100	55.5	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	38.6	50	77.2	32 - 125	
Phenol-d5	4165-62-2	BLK	39	100	39	7 - 56	
Terphenyl-d14	98904-43-9	BLK	46.7	50	93.4	41 - 145	

Lab Control Standard 3922507 (LCS) Created on 12/23/2024 13:04 For QC Batch 1359701

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	37		50	74	18 - 124		
1,4-Dioxane	123-91-1	LCS	23.3		50	46.6	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	111		100	111	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	104		100	104	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	99.1		100	99.1	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	92.4		100	92.4	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	89.5		100	89.5	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	71.4		100	71.4	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	54		50	108	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	51		50	102	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	39.8		50	79.6	27 - 125		
2-Chlorophenol	95-57-8	LCS	79.2		100	79.2	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	83.4		100	83.4	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	38.5		50	77	22 - 124		
2-Nitroaniline	88-74-4	LCS	48.6		50	97.2	55 - 138		
2-Nitrophenol	88-75-5	LCS	87.1		100	87.1	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	60.3		100	60.3	38 - 115		
3-Nitroaniline	99-09-2	LCS	44		50	88	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	50.2		50	100	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	90.4		100	90.4	46 - 144		
4-Chloroaniline	106-47-8	LCS	32.2		50	64.4	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	52.4		50	105	38 - 128		
4-Nitroaniline	100-01-6	LCS	49.2		50	98.3	53 - 124		
4-Nitrophenol	100-02-7	LCS	50.2		100	50.2	5 - 108		
Acenaphthene	83-32-9	LCS	41.7		50	83.5	36 - 130		
Acenaphthylene	208-96-8	LCS	37.9		50	75.7	39 - 130		
Acetophenone	98-86-2	LCS	38.1		50	76.2	49 - 117		
Anthracene	120-12-7	LCS	48.2		50	96.4	48 - 133		
Atrazine	1912-24-9	LCS	54.7		50	109	44 - 149		
Benzaldehyde	100-52-7	LCS	40.4		50	80.8	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	47.7		50	95.5	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	48		50	96.1	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	52.4		50	105	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	44.9		50	89.9	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	50.4		50	101	52 - 130		
Biphenyl	92-52-4	LCS	38.3		50	76.6	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	46.2		50	92.5	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	40.2		50	80.5	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	35.5		50	71	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	45.6		50	91.2	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	49.9		50	99.8	50 - 137		
Caprolactam	105-60-2	LCS	19.3		50	38.7	5 - 118		
Carbazole	86-74-8	LCS	47		50	94	52 - 139		
Chrysene	218-01-9	LCS	49.4		50	98.7	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	46.3		50	92.5	56 - 130		
Dibenzofuran	132-64-9	LCS	44		50	88.1	39 - 133		
Diethylphthalate	84-66-2	LCS	54.4		50	109	45 - 132		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dimethylphthalate	131-11-3	LCS	50.6		50	101	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	48.6		50	97.1	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	47.2		50	94.4	35 - 141		
Fluoranthene	206-44-0	LCS	51.2		50	102	49 - 132		
Fluorene	86-73-7	LCS	48		50	95.9	42 - 131		
Hexachlorobenzene	118-74-1	LCS	46.8		50	93.7	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	26		50	51.9	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	16.4		50	32.9	5 - 97		
Hexachloroethane	67-72-1	LCS	18.6		50	37.1	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	42.8		50	85.5	55 - 126		
Isophorone	78-59-1	LCS	42.2		50	84.4	45 - 129		
mp-Cresol	108394/106445	LCS	75.5		100	75.5	28 - 128		
Naphthalene	91-20-3	LCS	32.4		50	64.8	21 - 123		
Nitrobenzene	98-95-3	LCS	32		50	64.1	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	42.7		50	85.4	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	55.5		50	111	58 - 125		
o-Cresol	95-48-7	LCS	73.7		100	73.7	34 - 136		
Pentachlorophenol	87-86-5	LCS	83.6		100	83.6	41 - 149		
Phenanthrene	85-01-8	LCS	46.1		50	92.2	46 - 131		
Phenol	108-95-2	LCS	44.5		100	44.5	5 - 111		
Pyrene	129-00-0	LCS	49		50	98.1	48 - 134		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	103	100	103	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	43.9	50	87.7	24 - 116	
2-Fluorophenol	367-12-4	LCS	61.1	100	61.1	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	41.6	50	83.2	32 - 125	
Phenol-d5	4165-62-2	LCS	42.5	100	42.5	7 - 56	
Terphenyl-d14	98904-43-9	LCS	55.1	50	110	41 - 145	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1361196	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	3393066008

Matrix Spike 3923786 (MS) 3392983004 (non-Project Sample) For QC Batch 1361196

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4-Trimethylbenzene	95-63-6	MS	21.5	0	20	107	76 - 125		
1,2-Dibromoethane	106-93-4	MS	23.5	0	20	118	80 - 124		
1,2-Dichloroethane	107-06-2	MS	20.4	0	20	102	70 - 133		
1,3,5-Trimethylbenzene	108-67-8	MS	21.8	0	20	109	76 - 125		
Benzene	71-43-2	MS	21.2	0	20	106	80 - 124		
Ethylbenzene	100-41-4	MS	22.1	0	20	111	80 - 124		
Isopropylbenzene	98-82-8	MS	24.3	0.25	20	120	73 - 129		
Methyl t-Butyl Ether	1634-04-4	MS	21.6	0	20	108	69 - 115		
mp-Xylene	108383/106423	MS	44.1	0	40	110	79 - 125		
o-Xylene	95-47-6	MS	21.9	0	20	109	79 - 124		
Toluene	108-88-3	MS	22	0	20	110	80 - 125		
Total Xylenes	1330-20-7	MS	66	0	60	110	79 - 125		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.7	30	106	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	28.4	30	94.5	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.4	30	101	78 - 116	
Toluene-d8	2037-26-5	MS	30.6	30	102	76 - 127	

Duplicate 3923787 (DUP) 3392983006 (non-Project Sample) For QC Batch 1361196

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,2,4-Trimethylbenzene	95-63-6	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dibromoethane	106-93-4	DUP	0	0	RPD	0	(Max-)	ND
1,2-Dichloroethane	107-06-2	DUP	0	0	RPD	0	(Max-)	ND
1,3,5-Trimethylbenzene	108-67-8	DUP	0	0	RPD	0	(Max-)	ND
Benzene	71-43-2	DUP	0	0	RPD	0	(Max-)	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
Ethylbenzene	100-41-4	DUP	0	0	RPD	0	(Max-)	ND
Isopropylbenzene	98-82-8	DUP	20.5067	20.2181	RPD	1.42	(Max-)	
Methyl t-Butyl Ether	1634-04-4	DUP	0	0	RPD	0	(Max-)	ND
mp-Xylene	108383/106423	DUP	0	0	RPD	0	(Max-)	ND
o-Xylene	95-47-6	DUP	0	0	RPD	0	(Max-)	ND
Toluene	108-88-3	DUP	0	0	RPD	0	(Max-)	ND
Total Xylenes	1330-20-7	DUP	0	0	RPD	0	(Max-)	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	DUP	31.5	30	105	62 - 133	
4-Bromofluorobenzene	460-00-4	DUP	27.4	30	91.5	79 - 114	
Dibromofluoromethane	1868-53-7	DUP	30	30	100	78 - 116	
Toluene-d8	2037-26-5	DUP	29.8	30	99.5	76 - 127	

Method Blank 3923781 (MB) Created on 12/27/2024 23:11 For QC Batch 1361196

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.8	30	99.4	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29	30	96.7	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.3	30	94.4	78 - 116	
Toluene-d8	2037-26-5	BLK	30.2	30	101	76 - 127	

Lab Control Standard 3923782 (LCS) Created on 12/27/2024 23:11 For QC Batch 1361196

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	20.6		20	103	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.5		20	112	74 - 135		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,2-Trichloroethane	79-00-5	LCS	21.1		20	106	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.6		20	97.9	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	20.4		20	102	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	21.7		20	109	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22		20	110	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.6		20	118	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22		20	110	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.9		20	104	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	21.4		20	107	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.5		20	108	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.3		20	96.7	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20		20	100	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22		20	110	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	21.1		20	106	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.4		20	107	81 - 116		
2-Butanone	78-93-3	LCS	98.7		100	98.7	50 - 152		
2-Hexanone	591-78-6	LCS	99.3		100	99.3	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	99.5		100	99.5	71 - 146		
Acetone	67-64-1	LCS	105		100	105	40 - 151		
Benzene	71-43-2	LCS	19.5		20	97.5	80 - 124		
Bromochloromethane	74-97-5	LCS	21.2		20	106	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.6		20	108	79 - 126		
Bromoform	75-25-2	LCS	21.8		20	109	70 - 123		
Bromomethane	74-83-9	LCS	19.3		20	96.5	45 - 148		
Carbon Disulfide	75-15-0	LCS	21		20	105	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	18.2		20	91.1	62 - 132		
Chlorobenzene	108-90-7	LCS	20.1		20	101	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.2		20	95.9	77 - 122		
Chloroethane	75-00-3	LCS	22.3		20	112	51 - 142		
Chloroform	67-66-3	LCS	19.5		20	97.4	78 - 122		
Chloromethane	74-87-3	LCS	21.2		20	106	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.1		20	100	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.4		20	92.1	81 - 121		
Cyclohexane	110-82-7	LCS	20.6		20	103	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	20		20	99.8	17 - 166		
Ethylbenzene	100-41-4	LCS	20.4		20	102	80 - 124		
Freon 113	76-13-1	LCS	21.5		20	108	50 - 130		
Isopropylbenzene	98-82-8	LCS	24		20	120	73 - 129		
Methyl acetate	79-20-9	LCS	21.2		20	106	70 - 130		
Methyl cyclohexane	108-87-2	LCS	20.6		20	103	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.7		20	104	69 - 115		
Methylene Chloride	75-09-2	LCS	20.4		20	102	76 - 121		
mp-Xylene	108383/106423	LCS	41.1		40	103	79 - 125		
o-Xylene	95-47-6	LCS	20.6		20	103	79 - 124		
Styrene	100-42-5	LCS	19		20	95	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.6		20	98.2	72 - 124		
Toluene	108-88-3	LCS	20.3		20	101	80 - 125		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Xylenes	1330-20-7	LCS	61.7		60	103	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	19.9		20	99.3	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	18.8		20	94.1	78 - 126		
Trichloroethene	79-01-6	LCS	19.2		20	95.9	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	23.3		20	116	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.2		20	106	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.4	30	97.9	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	30.1	30	100	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.7	30	99.1	78 - 116	
Toluene-d8	2037-26-5	LCS	30	30	99.9	76 - 127	

QC Batch

QC Batch	1362194	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3393066005 3393066007

Matrix Spike 3924415 (MS) 3393683001 (non-Project Sample) For QC Batch 1362194

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3924416 (MSD) 3393683001 (non-Project Sample) For QC Batch 1362194

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1-Dichloroethene	75-35-4	MS	470	0	400	118	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	434	0	400	108	63 - 128	RPD 8.03 (Max-21)	
1,2-Dichloroethane	107-06-2	MS	421	0	400	105	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	380	0	400	95	70 - 133	RPD 10.40 (Max-19)	
1,4-Dichlorobenzene	106-46-7	MS	420	0	400	105	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	408	0	400	102	81 - 116	RPD 2.97 (Max-15)	
2-Butanone	78-93-3	MS	2020	0	2000	101	50 - 152		
2-Butanone	78-93-3	MSD	1870	0	2000	93.7	50 - 152	RPD 7.68 (Max-16)	
Benzene	71-43-2	MS	437	4.70	400	108	80 - 124		
Benzene	71-43-2	MSD	403	4.70	400	99.5	80 - 124	RPD 8.11 (Max-26)	
Carbon Tetrachloride	56-23-5	MS	416	0	400	104	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	390	0	400	97.5	62 - 132	RPD 6.35 (Max-17)	
Chlorobenzene	108-90-7	MS	443	0	400	111	85 - 117		
Chlorobenzene	108-90-7	MSD	399	0	400	99.8	85 - 117	RPD 10.50 (Max-15)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloroform	67-66-3	MS	424	0	400	106	78 - 122		
Chloroform	67-66-3	MSD	396	0	400	99.1	78 - 122	RPD 6.76 (Max-16)	
Tetrachloroethene	127-18-4	MS	433	0	400	108	72 - 124		
Tetrachloroethene	127-18-4	MSD	393	0	400	98.3	72 - 124	RPD 9.68 (Max-38)	
Trichloroethene	79-01-6	MS	423	0	400	106	77 - 124		
Trichloroethene	79-01-6	MSD	389	0	400	97.2	77 - 124	RPD 8.49 (Max-18)	
Vinyl Chloride	75-01-4	MS	482	0	400	121	27 - 138		
Vinyl Chloride	75-01-4	MSD	498	0	400	125	27 - 138	RPD 3.24 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	643	600	107	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	615	600	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	566	600	94.3	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	584	600	97.3	79 - 114	
Dibromofluoromethane	1868-53-7	MS	616	600	103	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	586	600	97.6	78 - 116	
Toluene-d8	2037-26-5	MS	622	600	104	76 - 127	
Toluene-d8	2037-26-5	MSD	582	600	96.9	76 - 127	

Method Blank 3924370 (MB) Created on 12/30/2024 19:48 For QC Batch 1362194

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	0.40J	ug/L	1.0	J
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.9	30	110	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.9	30	99.6	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	31.5	30	105	78 - 116	
Toluene-d8	2037-26-5	BLK	32.6	30	109	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Lab Control Standard 3924371 (LCS) Created on 12/30/2024 19:48 For QC Batch 1362194

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.4		20	107	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.8		20	109	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.7		20	109	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.9		20	99.5	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.2		20	106	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	20.5		20	103	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	21.9		20	109	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	21.9		20	109	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.7		20	103	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	21.6		20	108	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	22.8		20	114	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.3		20	102	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.5		20	97.3	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.1		20	101	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	20.9		20	105	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.1		20	100	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.3		20	101	81 - 116		
2-Butanone	78-93-3	LCS	99.2		100	99.2	50 - 152		
2-Hexanone	591-78-6	LCS	105		100	105	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	106		100	106	71 - 146		
Acetone	67-64-1	LCS	104		100	104	40 - 151		
Benzene	71-43-2	LCS	19.8		20	99.2	80 - 124		
Bromochloromethane	74-97-5	LCS	22		20	110	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.9		20	110	79 - 126		
Bromoform	75-25-2	LCS	21.4		20	107	70 - 123		
Bromomethane	74-83-9	LCS	17		20	84.9	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.2		20	106	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.3		20	96.5	62 - 132		
Chlorobenzene	108-90-7	LCS	20.6		20	103	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.7		20	98.5	77 - 122		
Chloroethane	75-00-3	LCS	23.8		20	119	51 - 142		
Chloroform	67-66-3	LCS	19.8		20	98.8	78 - 122		
Chloromethane	74-87-3	LCS	18		20	89.9	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.5		20	102	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.3		20	91.3	81 - 121		
Cyclohexane	110-82-7	LCS	21.1		20	105	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	18.8		20	93.9	17 - 166		
Ethylbenzene	100-41-4	LCS	21.1		20	106	80 - 124		
Freon 113	76-13-1	LCS	21.4		20	107	50 - 130		
Isopropylbenzene	98-82-8	LCS	23		20	115	73 - 129		
Methyl acetate	79-20-9	LCS	23.1		20	116	70 - 130		
Methyl cyclohexane	108-87-2	LCS	20.7		20	103	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	21.1		20	105	69 - 115		
Methylene Chloride	75-09-2	LCS	20.7		20	104	76 - 121		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
mp-Xylene	108383/106423	LCS	41.8		40	105	79 - 125		
o-Xylene	95-47-6	LCS	21		20	105	79 - 124		
Styrene	100-42-5	LCS	18.4		20	92	79 - 123		
Tetrachloroethene	127-18-4	LCS	24.1		20	121	72 - 124		
Toluene	108-88-3	LCS	20.9		20	105	80 - 125		
Total Xylenes	1330-20-7	LCS	62.8		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.1		20	100	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	18.5		20	92.3	78 - 126		
Trichloroethene	79-01-6	LCS	19.5		20	97.3	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	24		20	120	38 - 123		
Vinyl Chloride	75-01-4	LCS	21		20	105	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.4	30	98	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	27.4	30	91.3	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.6	30	98.7	78 - 116	
Toluene-d8	2037-26-5	LCS	29.7	30	98.9	76 - 127	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1357303	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Matrix Spike 3920628 (MS) 3392908001 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920629 (MSD) 3392908001 (non-Project Sample) For QC Batch 1357303

Matrix Spike 3920850 (MS) 3392903001 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	26.4	15.40	10	110	80 - 120		

Matrix Spike 3920853 (MS) 3392903002 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920854 (MSD) 3392903002 (non-Project Sample) For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	12	0.91	10	111	80 - 120		
Sulfate	SO4	MSD	12.1	0.91	10	111	80 - 120	RPD 0.58 (Max-20)	

Matrix Spike 3920857 (MS) 3392903010 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	20	8.30	10	117	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3920860 (MS) 3392903014 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3920861 (MSD) 3392903014 (non-Project Sample) For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	28.1	16.30	10	118	80 - 120		
Sulfate	SO4	MSD	28	16.30	10	117	80 - 120	RPD 0.32 (Max-20)	

Matrix Spike 3920994 (MS) 3392861001 (non-Project Sample) For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	2.5	1.30	1	116	80 - 120		

Method Blank 3920471 (MB) Created on 12/19/2024 06:33 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920472 (LCS) Created on 12/19/2024 06:33 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.5		50	101	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	101	90 - 110		
Sulfate	SO4	LCS	50.8		50	102	90 - 110		

Lab Control Standard 3920630 (LCS) Created on 12/19/2024 08:08 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	51.3		50	103	90 - 110		

Method Blank 3920631 (MB) Created on 12/19/2024 08:08 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920851 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.1		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	103	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Method Blank 3920852 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920855 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.3		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	103	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Method Blank 3920856 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920858 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.6		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	103	90 - 110		
Sulfate	SO4	LCS	51.9		50	104	90 - 110		

Method Blank 3920859 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3920862 (LCS) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.9		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	52.4		50	105	90 - 110		

Method Blank 3920863 (MB) Created on 12/19/2024 10:26 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3920995 (LCS) Created on 12/19/2024 12:09 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.8		50	106	90 - 110		

Method Blank 3920996 (MB) Created on 12/19/2024 12:09 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Matrix Spike 3921110 (MS) 3393066007 For QC Batch 1357303

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921111 (MSD) 3393066007 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	207	180	25	NC	80 - 120		
Chloride	Cl	MSD	207	180	25	NC	80 - 120	RPD 0.32 (Max-20)	
Nitrate-N	NO3	MS	2.9	0	2.50	115	80 - 120		
Nitrate-N	NO3	MSD	2.9	0	2.50	116	80 - 120	RPD 0.69 (Max-20)	

Lab Control Standard 3921112 (LCS) Created on 12/19/2024 13:35 For QC Batch 1357303

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.3		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

Method Blank 3921113 (MB) Created on 12/19/2024 13:35 For QC Batch 1357303

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1358097	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9056A
Tech.			

Associated Samples

3393066004 3393066005 3393066006 3393066007

Matrix Spike 3921621 (MS) 3393123003 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921622 (MSD) 3393123003 (non-Project Sample) For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	68.4	57.80	10	NC	80 - 120		
Chloride	Cl	MSD	68.4	57.80	10	NC	80 - 120	RPD 0.11 (Max-20)	
Nitrate-N	NO3	MS	2.5	1.30	1	120	80 - 120		
Nitrate-N	NO3	MSD	2.5	1.30	1	117	80 - 120	RPD 1.23 (Max-20)	
Sulfate	SO4	MS	69.1	58.70	10	NC	80 - 120		
Sulfate	SO4	MSD	69.1	58.70	10	NC	80 - 120	RPD 0.10 (Max-20)	

Matrix Spike 3921625 (MS) 3393073008 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	16.3	6.30	10	101	80 - 120		

Matrix Spike 3921628 (MS) 3393147003 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921629 (MSD) 3393147003 (non-Project Sample) For QC Batch 1358097

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	16.3	5.30	10	110	80 - 120		
Chloride	Cl	MSD	16.5	5.30	10	111	80 - 120	RPD 0.87 (Max-20)	
Sulfate	SO4	MS	14.3	3.90	10	104	80 - 120		
Sulfate	SO4	MSD	14.5	3.90	10	106	80 - 120	RPD 1.11 (Max-20)	

Matrix Spike 3921632 (MS) 3393195004 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	528	513	25	NC	80 - 120		
Nitrate-N	NO3	MS	2.9	0	2.50	114	80 - 120		
Sulfate	SO4	MS	750	740	25	NC	80 - 120		

Matrix Spike 3921635 (MS) 3393221004 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921636 (MSD) 3393221004 (non-Project Sample) For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	MS	65.1	54.10	10	NC	80 - 120		
Chloride	Cl	MSD	65.2	54.10	10	NC	80 - 120	RPD 0.18 (Max-20)	
Sulfate	SO4	MS	121	112	10	NC	80 - 120		
Sulfate	SO4	MSD	121	112	10	NC	80 - 120	RPD 0.10 (Max-20)	

Matrix Spike 3921639 (MS) 3393224001 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	29	26.10	2.50	NC	80 - 120		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Matrix Spike 3921805 (MS) 3393274002 (non-Project Sample) For QC Batch 1358097

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3921806 (MSD) 3393274002 (non-Project Sample) For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	66.2	64.80	2.50	NC	80 - 120		
Nitrate-N	NO3	MSD	66.5	64.80	2.50	NC	80 - 120	RPD 0.53 (Max-20)	

Method Blank 3921333 (MB) Created on 12/20/2024 06:36 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921334 (LCS) Created on 12/20/2024 06:36 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.9		50	102	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	102	90 - 110		
Sulfate	SO4	LCS	50.7		50	101	90 - 110		

Lab Control Standard 3921623 (LCS) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	50.2		50	100	90 - 110		
Nitrate-N	NO3	LCS	5.1		5	101	90 - 110		
Sulfate	SO4	LCS	50.2		50	100	90 - 110		

Method Blank 3921624 (MB) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921626 (LCS) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.5		50	103	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	51.5		50	103	90 - 110		

Method Blank 3921627 (MB) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921630 (LCS) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	51.8		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	104	90 - 110		
Sulfate	SO4	LCS	51.8		50	104	90 - 110		

Method Blank 3921631 (MB) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921633 (LCS) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No	Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.2		50	104	90 - 110		
Nitrate-N	NO3	LCS	5.2		5	105	90 - 110		
Sulfate	SO4	LCS	52.2		50	104	90 - 110		

Method Blank 3921634 (MB) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921637 (LCS) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	52.3		50	105	90 - 110		
Nitrate-N	NO3	LCS	5.3		5	105	90 - 110		
Sulfate	SO4	LCS	52.3		50	105	90 - 110		

Method Blank 3921638 (MB) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921640 (LCS) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	53.5		50	107	90 - 110		
Nitrate-N	NO3	LCS	5.4		5	108	90 - 110		
Sulfate	SO4	LCS	53.4		50	107	90 - 110		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3921641 (MB) Created on 12/20/2024 11:07 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

Lab Control Standard 3921807 (LCS) Created on 12/20/2024 13:25 For QC Batch 1358097

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloride	Cl	LCS	54		50	108	90 - 110		
Nitrate-N	NO3	LCS	5.4		5	109	90 - 110		
Sulfate	SO4	LCS	54		50	108	90 - 110		

Method Blank 3921808 (MB) Created on 12/20/2024 13:25 For QC Batch 1358097

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Chloride	Cl	BLK	ND	mg/L	1.0	ND
Nitrate-N	NO3	BLK	ND	mg/L	0.50	ND
Sulfate	SO4	BLK	ND	mg/L	1.0	ND

QC Batch

QC Batch	1358100	Prep Method	N/A
Date Tech.	N/A	Analysis Method	SM2130B-2011

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Method Blank 3921341 (MB) Created on 12/20/2024 07:09 For QC Batch 1358100

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

Duplicate 3921343 (DUP) 3393066001 For QC Batch 1358100

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (NTU)	Orig. Result (NTU)				Qualifiers
Turbidity	Turb	DUP	380	380	RPD	0	(Max-10)	

Method Blank 3921344 (MB) Created on 12/20/2024 07:09 For QC Batch 1358100

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Turbidity	Turb	BLK	ND	NTU	0.30	ND

QC Batch

QC Batch	1359617	Prep Method	N/A
Date	N/A	Analysis Method	SM2540C-15
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Duplicate 3922642 (DUP) 3393023003 (non-Project Sample) For QC Batch 1359617

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Total Dissolved Solids	TDS	DUP	972	970	RPD	0.21	(Max-5)	

Duplicate 3922643 (DUP) 3393123001 (non-Project Sample) For QC Batch 1359617

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)				Qualifiers
Total Dissolved Solids	TDS	DUP	246	248	RPD	0.81	(Max-5)	

Method Blank 3922295 (MB) Created on 12/23/2024 08:45 For QC Batch 1359617

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Total Dissolved Solids	TDS	BLK	ND	mg/L	25	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3922296 (LCS) Created on 12/23/2024 08:45 For QC Batch 1359617

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Total Dissolved Solids	TDS	LCS	484		500	96.8	90 - 110		

QC Batch

QC Batch	1361010	Prep Method	N/A
Date	N/A	Analysis Method	SM2310B-2011
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Duplicate 3923436 (DUP) 3392940001 (non-Project Sample) For QC Batch 1361010

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	15	13	RPD 14.30 (Max-20)	

Duplicate 3923439 (DUP) 3393073001 (non-Project Sample) For QC Batch 1361010

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)		Qualifiers
Acidity, Total	ACID-T	DUP	14	12	RPD 15.40 (Max-20)	

Method Blank 3923435 (MB) Created on 12/27/2024 08:24 For QC Batch 1361010

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3923438 (MB) Created on 12/27/2024 08:24 For QC Batch 1361010

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

Method Blank 3923441 (MB) Created on 12/27/2024 08:24 For QC Batch 1361010

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Acidity, Total	ACID-T	BLK	ND	mg/L	5	ND

QC Batch

QC Batch	1362186	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9050A
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Duplicate 3924350 (DUP) 3392812002 (non-Project Sample) For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)		Qualifiers
Specific Conductance	Cond	DUP	2870	3210	RPD 11.20* (Max-10)	

Duplicate 3924354 (DUP) 3394009002 (non-Project Sample) For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)		Qualifiers
Specific Conductance	Cond	DUP	998	1001	RPD 0.30 (Max-10)	

Duplicate 3924356 (DUP) 3393197002 (non-Project Sample) For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	537	535	RPD	0.37 (Max-10)	

Duplicate 3924352 (DUP) 3393066001 For QC Batch 1362186

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (umhos/cm)	Orig. Result (umhos/cm)			Qualifiers
Specific Conductance	Cond	DUP	2042	2034	RPD	0.39 (Max-10)	

QC Batch

QC Batch	1362771	Prep Method	N/A
Date	N/A	Analysis Method	S4500HB-11
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Duplicate 3924842 (DUP) 3392711003 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3924843 (DUP) 3392622001 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH_Units)	Orig. Result (pH_Units)	Qualifiers
pH	PH	DUP			

Duplicate 3924844 (DUP) 3393123004 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP					

Duplicate 3924848 (DUP) 3392933001 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP					

Duplicate 3924856 (DUP) 3392847002 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP					

Duplicate 3924860 (DUP) 3392903010 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	7.9090	7.9060	RPD 0.04	(Max-10)	

Duplicate 3924864 (DUP) 3393221001 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.4510	8.4710	RPD 0.24	(Max-10)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3924868 (DUP) 3393073002 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)		Qualifiers
pH	PH	DUP	5.8710	6.4980	RPD 10.10* (Max-10)	

Duplicate 3924872 (DUP) 3393123003 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3924876 (DUP) 3393197003 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)		Qualifiers
pH	PH	DUP	8.4950	8.4780	RPD 0.20 (Max-10)	

Duplicate 3924880 (DUP) 3393271015 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)		Qualifiers
pH	PH	DUP	8.1220	8.1480	RPD 0.32 (Max-10)	

Duplicate 3924884 (DUP) 3393296003 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3924888 (DUP) 3393306003 (non-Project Sample) For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)	Qualifiers
pH	PH	DUP			

Duplicate 3924852 (DUP) 3393066005 For QC Batch 1362771

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (pH Units)	Orig. Result (pH Units)			Qualifiers
pH	PH	DUP	8.2070	8.2940	RPD	1.05 (Max-10)	

QC Batch

QC Batch	1363960	Prep Method	N/A
Date	N/A	Analysis Method	SM2320B-2011
Tech.			

Associated Samples

3393066001	3393066002	3393066003	3393066004
3393066005	3393066006	3393066007	

Duplicate 3925473 (DUP) 3392847002 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	16.36	13.64	RPD	18.10 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3925474 (DUP) 3392903010 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	38.32	37.84	RPD 1.26	(Max-20)	

Duplicate 3925482 (DUP) 3393073002 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	4.68	2.08	RPD 76.90*	(Max-20)	ND

Duplicate 3925483 (DUP) 3393221001 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	711.60	715.60	RPD 0.56	(Max-20)	

Duplicate 3925487 (DUP) 3393789001 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	172.76	176.52	RPD 2.15	(Max-20)	

Duplicate 3925491 (DUP) 3393880001 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	265.64	267	RPD 0.51	(Max-20)	

Duplicate 3925495 (DUP) 3394072012 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	372.56	369.52	RPD 0.82	(Max-20)	

Duplicate 3925499 (DUP) 3394112001 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3925503 (DUP) 3394251018 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Duplicate 3925507 (DUP) 3394443001 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3925511 (DUP) 3394480003 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	197.60	199.28	RPD	0.85 (Max-20)	

Duplicate 3925515 (DUP) 3394481001 (non-Project Sample) For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Qualifiers
Alkalinity, Total	ALKT	DUP			

Method Blank 3925470 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925476 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Duplicate 3925478 (DUP) 3393066005 For QC Batch 1363960

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)			Qualifiers
Alkalinity, Total	ALKT	DUP	500	486	RPD	2.84 (Max-20)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3925480 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925485 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925489 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925493 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925497 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925501 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925505 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	5	mg/L	5	

Method Blank 3925509 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925513 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	ND	mg/L	5	ND

Method Blank 3925517 (MB) Created on 01/03/2025 02:51 For QC Batch 1363960

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Alkalinity, Total	ALKT	BLK	5	mg/L	5	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3393066001	MW-34S	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1357303
3393066002	MW-34S-DUP	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1357303
3393066003	MW-34D	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1357303

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3393066004	MW-10S	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1357303
		N/A	N/A	N/A		SW846 9056A	1358097
3393066005	MW-26S	SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		SW846 8260D	1362194
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1357303
		N/A	N/A	N/A		SW846 9056A	1358097
3393066006	MW-26D	SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360724
		SW846 3015A	1358109	12/20/2024 10:30	ANN	SW846 6010C	1360782
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1358097
		N/A	N/A	N/A		SW846 9056A	1357303

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3393066007	MW-10D	SW846 3015A	1360498	12/24/2024 10:56	ANN	SW846 6010C	1364486
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363495
		SW846 3015A	1358105	12/20/2024 11:38	ANN	SW846 6010C	1363686
		SW846 7470A	1359512	12/23/2024 07:29	AJN	SW846 7470A	1359690
		SW846 7470A	1359513	12/23/2024 07:29	AJN	SW846 7470A	1359691
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1362518
		SW846 3510C	1359701	12/23/2024 23:25	J1H	SW846 8270E	1360794
		N/A	N/A	N/A		SW846 8260D	1362194
		N/A	N/A	N/A		SW846 8260D	1361196
		N/A	N/A	N/A		S4500HB-11	1362771
		N/A	N/A	N/A		SM2130B-2011	1358100
		N/A	N/A	N/A		SM2310B-2011	1361010
		N/A	N/A	N/A		SM2320B-2011	1363960
		N/A	N/A	N/A		SM2540C-15	1359617
		N/A	N/A	N/A		SW846 9050A	1362186
		N/A	N/A	N/A		SW846 9056A	1358097
		N/A	N/A	N/A		SW846 9056A	1357303
3393066008	TB-46	N/A	N/A	N/A		SW846 8260D	1361196

ALS

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3393066
Logged By: MJE
PM: EXP
ALS Quote #:
1 of 1

Client Name: Michael Baker Intl.
Address: 100 Airside Drive Moon Twp., PA

Contact: C. Kupfer
Phone#: 412-269-6300
Project Name/#: Erie Coke Works
Bill To:
Purchase Order #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [ ]

Temp Taken By: MJE Therm ID: 569 WO Temp (°C) 1°

Receipt Info completed by:

Container Type	G	G	P	P									
Container Size	3 40 ml	1 500 ml	4 125 ml	2 1L									
Preservative	HCl ~~UNP~~		HNO_3	~~UNP~~	MJE 12/19/24								

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	SVOCs 8270	Total Metals + Hg 6010/7471B	Diss. Metals + Hg 6010/7471B	Gen. Chem.						
	Enter Number of Containers Per Sample or Field Results Below.																
1	MW-34S	12/18/24	0910		G	GW	3	1	2	2	2	MJE 12/19/24					
2	MW-34S-DUP		0920														
3	MW-34D		1120														
4	MW-10S		1250														
5	MW-26S		0925														
6	MW-26D		1050														
7	MW-10D	↓	1215		↓	↓											
8	TB-46	—	—		—												
9																	
10																	

Sample(s) for Radiation testing?	Y	N
Reportable SDWA Sample(s)?	Y	N
SDWA State of Origin?		
PWSID #		
PWS Contact:		
PWS Phone #:		
Rad Screen (uCi)		
New Source?	Y	N
New Source Contact:		

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Cooler Custody Seals Intact	Y	N	NA	
Sample Custody Seal Intact	Y	N	NA	
Received on Ice	Y	N	NA	
Coolers & Samples Intact	Y	N		
Correct Containers Provided	Y	N		
Sample Label/COC Agree	Y	N		
Adequate Sample Volumes	Y	N		
VOA only: Trip Blank	Y	N	NA	
NJ ≤ 4 days?	Y	N		

Courier/Tracking #

WV Containers 0-6°C Y N NA

Deviations? NO YES
If YES, list below:

Client contact:
Date/Tech:

Sample/COC Remarks

* All GW Samples are Considered "Hot"

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client
Name: ID:

Comments

Date:	Time		Relinquished By / Company Name		Received By / Company Name
12/18/24	1700	1	Dave Gaviglia / MBI	2	Fedex
12/19/24	926	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] _____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: Lab [ ] Special [ ]

EDDS: Format Type:

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

7834859829 89

Middletown Sample Condition Form

Client Michael Baker Intl. Workorder 33930666

Temp °C 1° Therm ID 569 Ice? (Y) N N/A Initials & Date MJE 12/19/24

(Fedex) UPS Client ALS Other Tracking # 283485982989

	Yes	No	N/A	Comments
Cooler Custody Seals present & intact			X	
Sample Custody Seals present & intact			X	
Chain-of-Custody present	X			
Sample collector name present		X		PM notified
COC/bottle labels complete & in agreement	X			
•Sample location	X			
•Date and time of sample collection	X			
•Type(s) of preservation		X		Plwp updated on chain
•Number of containers		X		Updated on chain
•Composite or grab	X			
•Matrix	X			
Proper containers, preservation, and volume per method	X			
Received within hold time	X			
Containers intact	X			
Trip blanks present (EPA 504, EPA 524)	X			
Field blanks present (Hg 1631, PFAS)			X	
NJ ≤ 4 Days			X	
CR6 Samples Filtered			X	
OP Samples Filtered			X	
WV Containers 0-6°C			X	
SDWA compliance reporting			X	

Rad Screen (uCi) —

Review Comments:

1/10/2025 11:17 AM

OBG Part of Ramboll | Michael Baker INTERNATIONAL

OBG|Baker Environmental Solutions Joint Venture

ATTACHMENT E

Laboratory Analytical Reports – Investigation Derived Wastes

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For

Michael Baker International

Project Erie Coke 188511-3020
Workorder 3391171
Report ID 372621 on 12/10/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Nov 22, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Shannon Horn - Michael Baker International, Inc.
Christopher Kupfer - Michael Baker Jr., Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3389099003	IDW-S	Solid	11/21/2024 16:45	11/22/2024 09:07	CBC	Collected By Client
3389099004	IDW-W	Water	11/21/2024 17:00	11/22/2024 09:07	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID		
3389099003	IDW-S	**S1**	The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by matrix.

Result Notations

Notation Ref.	
E	Result reported exceeds instrument calibration
1	The surrogate Phenol-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 35 to 111. This result was reported at a dilution of 100.
2	The surrogate Nitrobenzene-d5 for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 38 to 112. This result was reported at a dilution of 100.
3	The surrogate 2-Fluorobiphenyl for method SW846 8270E was outside of control limits. The % Recovery was reported as 0 and the control limits were 40 to 110. This result was reported at a dilution of 100.
4	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Di-n-Octylphthalate. The % Recovery was reported as 79 and the control limits were 80 to 120.
5	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Butylbenzylphthalate. The % Recovery was reported as 78 and the control limits were 80 to 120.
6	The QC sample type CCV for method SW846 8270E was outside the control limits for the analyte Hexachlorocyclopentadiene. The % Recovery was reported as 77 and the control limits were 80 to 120.
7	The sample was analyzed at 21.0 C
8	The corrosivity analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.
9	According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)
10	ALS-Middletown does not hold PADEP NELAP accreditation for this analyte by this method of analysis.
11	The CCV recovery yielded -25.61%D (limits +/-20%D) for method SW846 8260D for the analyte Bromomethane.
12	The surrogate Decachlorobiphenyl for method SW846 8082A was outside of control limits in the associated matrix spike duplicate sample (MSD). The % Recovery was reported as 24.5 and the control limits were 30 to 140. This result was reported at a dilution of 1.
13	The surrogate Decachlorobiphenyl for method SW846 8082A was outside of control limits. The % Recovery was reported as 26.9 and the control limits were 30 to 140. This result was reported at a dilution of 1.
14	Sample did not flash up to 200 f.

Detected Results Summary

Client Sample ID IDW-S
Lab Sample ID 3389099003

Collected 11/21/2024 16:45
Lab Receipt 11/22/2024 09:07

Compound	Result	Units	RDL	MDL	Method	Flag
SEMIVOLATILES						
2,4-Dimethylphenol	2870	ug/kg	989	168	SW846 8270E	#
2,6-Dinitrotoluene	5000	ug/kg	494	168	SW846 8270E	#
2-Methylnaphthalene	96500	ug/kg	12400	2100	SW846 8270E	#
Acenaphthene	41800	ug/kg	6180	2100	SW846 8270E	#
Acenaphthylene	82500	ug/kg	6180	2100	SW846 8270E	#
Acetophenone	1090	ug/kg	494	84.0	SW846 8270E	#
Anthracene	129000	ug/kg	6180	2100	SW846 8270E	#
Benzo(a)anthracene	103000	ug/kg	6180	2100	SW846 8270E	#
Benzo(a)pyrene	86900	ug/kg	6180	2100	SW846 8270E	#
Benzo(b)fluoranthene	71700	ug/kg	6180	2100	SW846 8270E	#
Benzo(g,h,i)perylene	41300	ug/kg	6180	2100	SW846 8270E	#
Benzo(k)fluoranthene	73300	ug/kg	6180	2100	SW846 8270E	#
Biphenyl	19000	ug/kg	494	84.0	SW846 8270E	#
Carbazole	42700	ug/kg	12400	2100	SW846 8270E	#
Chrysene	103000	ug/kg	6180	2100	SW846 8270E	#
Dibenzo(a,h)anthracene	12600	ug/kg	247	84.0	SW846 8270E	#
Dibenzofuran	87300	ug/kg	12400	2100	SW846 8270E	#
Fluoranthene	317000	ug/kg	6180	2100	SW846 8270E	#
Fluorene	141000	ug/kg	6180	2100	SW846 8270E	#
Hexachlorobutadiene	102J	ug/kg	494	84.0	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	48900	ug/kg	6180	2100	SW846 8270E	#
mp-Cresol	4610	ug/kg	989	168	SW846 8270E	#
Naphthalene	1190000	ug/kg	6180	2100	SW846 8270E	#
o-Cresol	1920	ug/kg	989	168	SW846 8270E	#
Phenanthrene	408000	ug/kg	6180	2100	SW846 8270E	#
Phenol	3040	ug/kg	989	168	SW846 8270E	#
Pyrene	199000	ug/kg	6180	2100	SW846 8270E	#
TCLP EPA 1311 METALS						
Barium, Total	0.54	mg/L	0.050	0.015	SW846 6010C	#
TCLP EPA 1311 SEMI-VOLATILES						
mp-Cresol	196	ug/L	15.0	2.5	SW846 8270E	#
o-Cresol	90.5	ug/L	15.0	2.5	SW846 8270E	#
Pyridine	27.5	ug/L	15.0	2.0	SW846 8270E	#
TCLP EPA 1311 VOLATILE ORGANIC						
Benzene	197	ug/L	100	23.0	SW846 8260D	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	9640	ug/kg	389	97.2	SW846 8260D	#
1,3,5-Trimethylbenzene	7000	ug/kg	389	77.8	SW846 8260D	#
Benzene	56900	ug/kg	389	89.4	SW846 8260D	#
Cyclohexane	223J	ug/kg	389	113	SW846 8260D	#
Ethylbenzene	3100	ug/kg	389	132	SW846 8260D	#
Methyl cyclohexane	1050	ug/kg	389	117	SW846 8260D	#
mp-Xylene	28300	ug/kg	778	202	SW846 8260D	#
o-Xylene	11500	ug/kg	389	128	SW846 8260D	#

Detected Results Summary

Sample - IDW-S (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Styrene	856	ug/kg	389	93.3	SW846 8260D	#
Toluene	23700	ug/kg	389	89.4	SW846 8260D	#
Total Xylenes	39800	ug/kg	1170	257	SW846 8260D	#
WET CHEMISTRY						
Corrosivity as pH	8.95	pH_Units			SW846 9045D	#
Moisture	25.1	%	0.1	0.01	S2540G-15	#
Solids, Total Volatile	21.5	%	1.0	0.1	S2540G-15	#
Specific Gravity	1.67				S2710F-09	#
Sulfide, Reactive	4.0J	mg/kg	6.2	1.4	SW846 7.3	#
Total Solids	74.9	%	0.1	0.01	S2540G-15	#

Detected Results Summary

Client Sample ID	IDW-W	Collected	11/21/2024 17:00
Lab Sample ID	3389099004	Lab Receipt	11/22/2024 09:07

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Aluminum, Total	2.8	mg/L	0.11	0.036	SW846 6010C	#
Arsenic, Total	0.010	mg/L	0.0090	0.0037	SW846 6010C	#
Barium, Total	0.20	mg/L	0.011	0.0036	SW846 6010C	#
Calcium, Total	148	mg/L	0.11	0.036	SW846 6010C	#
Chromium, Total	0.014	mg/L	0.0056	0.0020	SW846 6010C	#
Cobalt, Total	0.0070	mg/L	0.0056	0.0020	SW846 6010C	#
Copper, Total	0.021	mg/L	0.011	0.0036	SW846 6010C	#
Iron, Total	11.2	mg/L	0.067	0.022	SW846 6010C	#
Lead, Total	0.028	mg/L	0.0067	0.0022	SW846 6010C	#
Magnesium, Total	119	mg/L	0.11	0.036	SW846 6010C	#
Manganese, Total	1.8	mg/L	0.0056	0.0020	SW846 6010C	#
Nickel, Total	0.018J	mg/L	0.022	0.0073	SW846 6010C	#
Potassium, Total	57.6	mg/L	0.56	0.18	SW846 6010C	#
Selenium, Total	0.0094J	mg/L	0.022	0.0073	SW846 6010C	#
Sodium, Total	109	mg/L	0.56	0.18	SW846 6010C	#
Vanadium, Total	0.0040J	mg/L	0.0056	0.0020	SW846 6010C	#
Zinc, Total	0.019J	mg/L	0.022	0.0073	SW846 6010C	#
SEMIVOLATILES						
2,4-Dimethylphenol	60.1	ug/L	7.5	1.3	SW846 8270E	#
2-Methylnaphthalene	172	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthene	55.3	ug/L	3.8	0.63	SW846 8270E	#
Acenaphthylene	149	ug/L	3.8	0.63	SW846 8270E	#
Acetophenone	10.0	ug/L	7.5	2.3	SW846 8270E	#
Anthracene	33.0	ug/L	3.8	0.63	SW846 8270E	#
Benzo(a)anthracene	16.1	ug/L	3.8	0.70	SW846 8270E	#
Benzo(a)pyrene	13.9	ug/L	3.8	0.65	SW846 8270E	#
Benzo(b)fluoranthene	11.6	ug/L	3.8	0.75	SW846 8270E	#
Benzo(g,h,i)perylene	8.5	ug/L	3.8	0.90	SW846 8270E	#
Benzo(k)fluoranthene	11.6	ug/L	3.8	0.85	SW846 8270E	#
Biphenyl	26.6	ug/L	7.5	0.63	SW846 8270E	#
Carbazole	104	ug/L	7.5	0.63	SW846 8270E	#
Chrysene	16.6	ug/L	3.8	0.65	SW846 8270E	#
Dibenzo(a,h)anthracene	2.2J	ug/L	3.8	0.80	SW846 8270E	#
Dibenzofuran	73.5	ug/L	7.5	0.63	SW846 8270E	#
Fluoranthene	69.7	ug/L	3.8	0.63	SW846 8270E	#
Fluorene	97.9	ug/L	3.8	0.63	SW846 8270E	#
Indeno(1,2,3-cd)pyrene	9.4	ug/L	3.8	0.78	SW846 8270E	#
mp-Cresol	53.4	ug/L	7.5	1.3	SW846 8270E	#
Naphthalene	4370	ug/L	37.5	16.3	SW846 8270E	#
o-Cresol	30.5	ug/L	7.5	1.3	SW846 8270E	#
Phenanthrene	161	ug/L	3.8	0.63	SW846 8270E	#
Phenol	30.0	ug/L	20.0	1.3	SW846 8270E	#
Pyrene	49.3	ug/L	3.8	0.63	SW846 8270E	#
VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	48.4	ug/L	20.0	5.0	SW846 8260D	#
1,3,5-Trimethylbenzene	23.8	ug/L	20.0	4.0	SW846 8260D	#

Detected Results Summary

Sample - IDW-W (cont.)

Compound	Result	Units	RDL	MDL	Method	Flag
VOLATILE ORGANICS (cont.)						
Benzene	6400	ug/L	50.0	11.5	SW846 8260D	#
Ethylbenzene	50.4	ug/L	20.0	6.8	SW846 8260D	#
mp-Xylene	125	ug/L	40.0	10.4	SW846 8260D	#
o-Xylene	57.5	ug/L	20.0	6.6	SW846 8260D	#
Styrene	15.8J	ug/L	20.0	4.8	SW846 8260D	#
Toluene	179	ug/L	20.0	4.6	SW846 8260D	#
Total Xylenes	183	ug/L	60.0	13.2	SW846 8260D	#
WET CHEMISTRY						
Corrosivity as pH	7.95	pH_Units			SW846 9040C	#
Free Liquids	Positive				SW846 9095B	#
Sulfide, Reactive	5.2J	mg/kg	6.3	1.4	SW846 7.3	#

Results

Client Sample ID	IDW-S	Collected	11/21/2024 16:45
Lab Sample ID	3389099003	Lab Receipt	11/22/2024 09:07

PCBs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aroclor-1016	ND	ND,S1	mg/kg	0.88	0.11	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1221	ND	ND,S1	mg/kg	0.88	0.45	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1232	ND	ND,S1	mg/kg	0.88	0.19	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1242	ND	ND,S1	mg/kg	0.88	0.19	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1248	ND	ND,S1	mg/kg	0.88	0.16	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1254	ND	ND,S1	mg/kg	0.88	0.11	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1260	ND	ND,S1	mg/kg	0.88	0.11	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1262	ND	ND,S1	mg/kg	0.88	0.13	SW846 8082A	20	11/27/2024 04:01	DXL	F
Aroclor-1268	ND	ND,S1	mg/kg	0.88	0.16	SW846 8082A	20	11/27/2024 04:01	DXL	F
Total Polychlorinated Biphenyl	ND	ND,S1	mg/kg	0.88	0.45	SW846 8082A	20	11/27/2024 04:01	DXL	F

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	68.6%	49 – 115	11/27/2024 04:01	
Tetrachloro-m-xylene	877-09-8	127%	27 – 137	11/27/2024 04:01	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
1,4-Dioxane	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,3,4,6-Tetrachlorophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,4,5-Trichlorophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,4,6-Trichlorophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,4-Dichlorophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,4-Dimethylphenol	2870	S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,4-Dinitrophenol	ND	ND,S1	ug/kg	1980	979	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,4-Dinitrotoluene	ND	ND,S1	ug/kg	494	98.9	SW846 8270E	4	11/25/2024 19:40	CGS	E
2,6-Dinitrotoluene	5000	S1	ug/kg	494	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2-Chloronaphthalene	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
2-Chlorophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
2-Methyl-4,6-dinitrophenol	ND	ND,S1	ug/kg	989	247	SW846 8270E	4	11/25/2024 19:40	CGS	E
2-Methylnaphthalene	96500	S1	ug/kg	12400	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
2-Nitroaniline	ND	ND,S1	ug/kg	989	114	SW846 8270E	4	11/25/2024 19:40	CGS	E
2-Nitrophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
3,3-Dichlorobenzidine	ND	ND,S1	ug/kg	989	153	SW846 8270E	4	11/25/2024 19:40	CGS	E
3-Nitroaniline	ND	ND,S1	ug/kg	989	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
4-Bromophenyl-phenylether	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
4-Chloro-3-methylphenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
4-Chloroaniline	ND	ND,S1	ug/kg	989	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
4-Chlorophenyl-phenylether	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
4-Nitroaniline	ND	ND,S1	ug/kg	989	143	SW846 8270E	4	11/25/2024 19:40	CGS	E
4-Nitrophenol	ND	ND,S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
Acenaphthene	41800	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Acenaphthylene	82500	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Acetophenone	1090	S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E

Results

Client Sample ID	IDW-S	Collected	11/21/2024 16:45
Lab Sample ID	3389099003	Lab Receipt	11/22/2024 09:07

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Anthracene	129000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Atrazine	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Benzaldehyde	ND	ND,S1	ug/kg	989	98.9	SW846 8270E	4	11/25/2024 19:40	CGS	E
Benzo(a)anthracene	103000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Benzo(a)pyrene	86900	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Benzo(b)fluoranthene	71700	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Benzo(g,h,i)perylene	41300	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Benzo(k)fluoranthene	73300	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Biphenyl	19000	S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
bis(2-Chloroethoxy)methane	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
bis(2-Chloroethyl)ether	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
bis(2-Chloroisopropyl)ether	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
bis(2-Ethylhexyl)phthalate	ND	ND,5,S1	ug/kg	494	109	SW846 8270E	4	11/25/2024 19:40	CGS	E
Butylbenzylphthalate	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Caprolactam	ND	ND,S1	ug/kg	989	193	SW846 8270E	4	11/25/2024 19:40	CGS	E
Carbazole	42700	S1	ug/kg	12400	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Chrysene	103000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Dibenzo(a,h)anthracene	12600	S1	ug/kg	247	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Dibenzofuran	87300	S1	ug/kg	12400	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Diethylphthalate	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Dimethylphthalate	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Di-n-Butylphthalate	ND	ND,S1	ug/kg	494	173	SW846 8270E	4	11/25/2024 19:40	CGS	E
Di-n-Octylphthalate	ND	ND,4,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Fluoranthene	317000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Fluorene	141000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Hexachlorobenzene	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Hexachlorobutadiene	102J	J,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
Hexachlorocyclopentadiene	ND	ND,6,S1	ug/kg	989	148	SW846 8270E	4	11/25/2024 19:40	CGS	E
Hexachloroethane	ND	ND,S1	ug/kg	494	114	SW846 8270E	4	11/25/2024 19:40	CGS	E
Indeno(1,2,3-cd)pyrene	48900	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Isophorone	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
mp-Cresol	4610	S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
Naphthalene	1190000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Nitrobenzene	ND	ND,S1	ug/kg	494	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
N-Nitroso-di-n-propylamine	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
N-Nitrosodiphenylamine	ND	ND,S1	ug/kg	494	84.0	SW846 8270E	4	11/25/2024 19:40	CGS	E
o-Cresol	1920	S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
Pentachlorophenol	ND	ND,S1	ug/kg	989	242	SW846 8270E	4	11/25/2024 19:40	CGS	E
Phenanthrene	408000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E
Phenol	3040	S1	ug/kg	989	168	SW846 8270E	4	11/25/2024 19:40	CGS	E
Pyrene	199000	S1	ug/kg	6180	2100	SW846 8270E	100	11/26/2024 19:15	S7M	E

Results

Client Sample ID	IDW-S	Collected	11/21/2024 16:45
Lab Sample ID	3389099003	Lab Receipt	11/22/2024 09:07

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	67.9%	19 – 132	11/25/2024 19:40	
2,4,6-Tribromophenol	118-79-6	78%	19 – 132	11/26/2024 19:15	
2-Fluorobiphenyl	321-60-8	63.1%	40 – 110	11/25/2024 19:40	
2-Fluorobiphenyl	321-60-8	0*%	40 – 110	11/26/2024 19:15	3
2-Fluorophenol	367-12-4	62.1%	26 – 116	11/25/2024 19:40	
2-Fluorophenol	367-12-4	62.5%	26 – 116	11/26/2024 19:15	
Nitrobenzene-d5	4165-60-0	65%	38 – 112	11/25/2024 19:40	
Nitrobenzene-d5	4165-60-0	0*%	38 – 112	11/26/2024 19:15	2
Phenol-d5	4165-62-2	70%	35 – 111	11/25/2024 19:40	
Phenol-d5	4165-62-2	0*%	35 – 111	11/26/2024 19:15	1
Terphenyl-d14	98904-43-9	76.5%	45 – 126	11/25/2024 19:40	
Terphenyl-d14	98904-43-9	106%	45 – 126	11/26/2024 19:15	

TCLP EPA 1311 METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Arsenic, Total	ND	ND,S1	mg/L	0.050	0.015	SW846 6010C	1	11/26/2024 10:26	MSY	E1
Barium, Total	0.54	S1	mg/L	0.050	0.015	SW846 6010C	1	11/26/2024 10:26	MSY	E1
Cadmium, Total	ND	ND,S1	mg/L	0.0099	0.0033	SW846 6010C	1	11/26/2024 10:26	MSY	E1
Chromium, Total	ND	ND,S1	mg/L	0.025	0.0090	SW846 6010C	1	11/26/2024 10:26	MSY	E1
Lead, Total	ND	ND,S1	mg/L	0.030	0.0099	SW846 6010C	1	11/26/2024 10:26	MSY	E1
Mercury, Total	ND	ND,S1	mg/L	0.00050	0.00017	SW846 7470A	1	12/02/2024 14:17	AXW	E2
Selenium, Total	ND	ND,S1	mg/L	0.099	0.033	SW846 6010C	1	11/26/2024 10:26	MSY	E1
Silver, Total	ND	ND,S1	mg/L	0.020	0.0063	SW846 6010C	1	11/26/2024 10:26	MSY	E1

TCLP EPA 1311 SEMI-VOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dichlorobenzene	ND	ND,S1	ug/L	15.0	1.5	SW846 8270E	1	11/27/2024 14:26	S7M	E
2,4,5-Trichlorophenol	ND	ND,S1	ug/L	15.0	2.5	SW846 8270E	1	11/27/2024 14:26	S7M	E
2,4,6-Trichlorophenol	ND	ND,S1	ug/L	15.0	2.5	SW846 8270E	1	11/27/2024 14:26	S7M	E
2,4-Dinitrotoluene	ND	ND,S1	ug/L	15.0	1.3	SW846 8270E	1	11/27/2024 14:26	S7M	E
Hexachlorobenzene	ND	ND,S1	ug/L	15.0	1.3	SW846 8270E	1	11/27/2024 14:26	S7M	E
Hexachlorobutadiene	ND	ND,S1	ug/L	15.0	1.4	SW846 8270E	1	11/27/2024 14:26	S7M	E
Hexachloroethane	ND	ND,S1	ug/L	15.0	1.3	SW846 8270E	1	11/27/2024 14:26	S7M	E
mp-Cresol	196	S1	ug/L	15.0	2.5	SW846 8270E	1	11/27/2024 14:26	S7M	E
Nitrobenzene	ND	ND,S1	ug/L	15.0	2.9	SW846 8270E	1	11/27/2024 14:26	S7M	E
o-Cresol	90.5	S1	ug/L	15.0	2.5	SW846 8270E	1	11/27/2024 14:26	S7M	E
Pentachlorophenol	ND	ND,S1	ug/L	40.0	7.0	SW846 8270E	1	11/27/2024 14:26	S7M	E
Pyridine	27.5	S1	ug/L	15.0	2.0	SW846 8270E	1	11/27/2024 14:26	S7M	E

Results

Client Sample ID	IDW-S	Collected	11/21/2024 16:45
Lab Sample ID	3389099003	Lab Receipt	11/22/2024 09:07

TCLP EPA 1311 SEMI-VOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	100%	23 – 131	11/27/2024 14:26	
2-Fluorobiphenyl	321-60-8	75.8%	24 – 116	11/27/2024 14:26	
2-Fluorophenol	367-12-4	48.6%	10 – 85	11/27/2024 14:26	
Nitrobenzene-d5	4165-60-0	76.1%	32 – 125	11/27/2024 14:26	
Phenol-d5	4165-62-2	35.4%	7 – 56	11/27/2024 14:26	
Terphenyl-d14	98904-43-9	52.2%	41 – 145	11/27/2024 14:26	

TCLP EPA 1311 VOLATILE ORGANIC

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1-Dichloroethene	ND	ND,S1	ug/L	100	29.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
1,2-Dichloroethane	ND	ND,S1	ug/L	100	32.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
2-Butanone	ND	ND,S1	ug/L	1000	180	SW846 8260D	100	11/30/2024 17:52	PDK	E
Benzene	197	S1	ug/L	100	23.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
Carbon Tetrachloride	ND	ND,S1	ug/L	100	31.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
Chlorobenzene	ND	ND,S1	ug/L	100	19.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
Chloroform	ND	ND,S1	ug/L	100	21.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
Tetrachloroethene	ND	ND,S1	ug/L	100	35.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
Trichloroethene	ND	ND,S1	ug/L	100	33.0	SW846 8260D	100	11/30/2024 17:52	PDK	E
Vinyl Chloride	ND	ND,S1	ug/L	100	30.0	SW846 8260D	100	11/30/2024 17:52	PDK	E

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	95.7%	62 – 133	11/30/2024 17:52	
4-Bromofluorobenzene	460-00-4	95.5%	79 – 114	11/30/2024 17:52	
Dibromofluoromethane	1868-53-7	93.8%	78 – 116	11/30/2024 17:52	
Toluene-d8	2037-26-5	97.5%	76 – 127	11/30/2024 17:52	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND,S1	ug/kg	389	85.6	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,1,2,2-Tetrachloroethane	ND	ND,S1	ug/kg	389	132	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,1,2-Trichloroethane	ND	ND,S1	ug/kg	389	128	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,1-Dichloroethane	ND	ND,S1	ug/kg	389	109	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,1-Dichloroethene	ND	ND,S1	ug/kg	389	113	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2,3-Trichlorobenzene	ND	ND,S1	ug/kg	778	362	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2,3-Trichloropropane	ND	ND,S1	ug/kg	778	233	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2,4-Trichlorobenzene	ND	ND,S1	ug/kg	778	319	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2,4-Trimethylbenzene	9640	S1	ug/kg	389	97.2	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2-Dibromo-3-chloropropane	ND	ND,S1	ug/kg	2720	583	SW846 8260D	250	12/04/2024 16:51	JTH	A

Results

Client Sample ID	IDW-S	Collected	11/21/2024 16:45
Lab Sample ID	3389099003	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2-Dibromoethane	ND	ND,S1	ug/kg	389	109	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2-Dichlorobenzene	ND	ND,S1	ug/kg	389	148	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2-Dichloroethane	ND	ND,S1	ug/kg	389	124	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2-Dichloroethene, Total	ND	ND,S1	ug/kg	778	175	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,2-Dichloropropane	ND	ND,S1	ug/kg	389	93.3	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,3,5-Trimethylbenzene	7000	S1	ug/kg	389	77.8	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,3-Dichlorobenzene	ND	ND,S1	ug/kg	389	97.2	SW846 8260D	250	12/04/2024 16:51	JTH	A
1,4-Dichlorobenzene	ND	ND,S1	ug/kg	389	105	SW846 8260D	250	12/04/2024 16:51	JTH	A
2-Butanone	ND	ND,S1	ug/kg	3890	700	SW846 8260D	250	12/04/2024 16:51	JTH	A
2-Hexanone	ND	ND,S1	ug/kg	1940	506	SW846 8260D	250	12/04/2024 16:51	JTH	A
4-Methyl-2-Pentanone(MIBK)	ND	ND,S1	ug/kg	1940	583	SW846 8260D	250	12/04/2024 16:51	JTH	A
Acetone	ND	ND,S1	ug/kg	3890	1210	SW846 8260D	250	12/04/2024 16:51	JTH	A
Benzene	56900	S1	ug/kg	389	89.4	SW846 8260D	250	12/04/2024 16:51	JTH	A
Bromochloromethane	ND	ND,S1	ug/kg	389	124	SW846 8260D	250	12/04/2024 16:51	JTH	A
Bromodichloromethane	ND	ND,S1	ug/kg	389	105	SW846 8260D	250	12/04/2024 16:51	JTH	A
Bromoform	ND	ND,S1	ug/kg	389	156	SW846 8260D	250	12/04/2024 16:51	JTH	A
Bromomethane	ND	ND,S1	ug/kg	389	152	SW846 8260D	250	12/04/2024 16:51	JTH	A
Carbon Disulfide	ND	ND,S1	ug/kg	389	89.4	SW846 8260D	250	12/04/2024 16:51	JTH	A
Carbon Tetrachloride	ND	ND,S1	ug/kg	389	121	SW846 8260D	250	12/04/2024 16:51	JTH	A
Chlorobenzene	ND	ND,S1	ug/kg	389	73.9	SW846 8260D	250	12/04/2024 16:51	JTH	A
Chlorodibromomethane	ND	ND,S1	ug/kg	389	175	SW846 8260D	250	12/04/2024 16:51	JTH	A
Chloroethane	ND	ND,S1	ug/kg	389	128	SW846 8260D	250	12/04/2024 16:51	JTH	A
Chloroform	ND	ND,S1	ug/kg	389	81.7	SW846 8260D	250	12/04/2024 16:51	JTH	A
Chloromethane	ND	ND,S1	ug/kg	389	121	SW846 8260D	250	12/04/2024 16:51	JTH	A
cis-1,2-Dichloroethene	ND	ND,S1	ug/kg	389	124	SW846 8260D	250	12/04/2024 16:51	JTH	A
cis-1,3-Dichloropropene	ND	ND,S1	ug/kg	389	121	SW846 8260D	250	12/04/2024 16:51	JTH	A
Cyclohexane	223J	J,S1	ug/kg	389	113	SW846 8260D	250	12/04/2024 16:51	JTH	A
Dichlorodifluoromethane	ND	ND,S1	ug/kg	389	128	SW846 8260D	250	12/04/2024 16:51	JTH	A
Ethylbenzene	3100	S1	ug/kg	389	132	SW846 8260D	250	12/04/2024 16:51	JTH	A
Freon 113	ND	ND,S1	ug/kg	389	101	SW846 8260D	250	12/04/2024 16:51	JTH	A
Isopropylbenzene	ND	ND,S1	ug/kg	389	85.6	SW846 8260D	250	12/04/2024 16:51	JTH	A
Methyl acetate	ND	ND,S1	ug/kg	778	124	SW846 8260D	250	12/04/2024 16:51	JTH	A
Methyl cyclohexane	1050	S1	ug/kg	389	117	SW846 8260D	250	12/04/2024 16:51	JTH	A
Methyl t-Butyl Ether	ND	ND,S1	ug/kg	389	128	SW846 8260D	250	12/04/2024 16:51	JTH	A
Methylene Chloride	ND	ND,S1	ug/kg	389	175	SW846 8260D	250	12/04/2024 16:51	JTH	A
mp-Xylene	28300	S1	ug/kg	778	202	SW846 8260D	250	12/04/2024 16:51	JTH	A
o-Xylene	11500	S1	ug/kg	389	128	SW846 8260D	250	12/04/2024 16:51	JTH	A
Styrene	856	S1	ug/kg	389	93.3	SW846 8260D	250	12/04/2024 16:51	JTH	A
Tetrachloroethene	ND	ND,S1	ug/kg	389	136	SW846 8260D	250	12/04/2024 16:51	JTH	A
Toluene	23700	S1	ug/kg	389	89.4	SW846 8260D	250	12/04/2024 16:51	JTH	A
Total Xylenes	39800	S1	ug/kg	1170	257	SW846 8260D	250	12/04/2024 16:51	JTH	A
trans-1,2-Dichloroethene	ND	ND,S1	ug/kg	389	101	SW846 8260D	250	12/04/2024 16:51	JTH	A
trans-1,3-Dichloropropene	ND	ND,S1	ug/kg	389	113	SW846 8260D	250	12/04/2024 16:51	JTH	A
Trichloroethene	ND	ND,S1	ug/kg	389	128	SW846 8260D	250	12/04/2024 16:51	JTH	A
Trichlorofluoromethane	ND	ND,S1	ug/kg	389	93.3	SW846 8260D	250	12/04/2024 16:51	JTH	A
Vinyl Chloride	ND	ND,S1	ug/kg	389	117	SW846 8260D	250	12/04/2024 16:51	JTH	A

Results

Client Sample ID	IDW-S	Collected	11/21/2024 16:45
Lab Sample ID	3389099003	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	71 – 146	12/04/2024 16:51	
4-Bromofluorobenzene	460-00-4	99.5%	46 – 138	12/04/2024 16:51	
Dibromofluoromethane	1868-53-7	90.3%	42 – 143	12/04/2024 16:51	
Toluene-d8	2037-26-5	98.6%	54 – 141	12/04/2024 16:51	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Corrosivity as pH	8.95	7,8,S1	pH_Units			SW846 9045D	1	11/26/2024 12:15	KMS	E
Cyanide, Reactive	ND	ND,S1	mg/kg	10	0.011	SW-846 7.3CN	1	11/29/2024 13:53	KMV	E
Free Liquids	Negative	S1				SW846 9095B	1	11/26/2024 09:00	ZAS	E
Ignitability	Not ignitable.	9,S1				SW846 1030	1	11/22/2024 12:30	CAB	E
Moisture	25.1	S1	%	0.1	0.01	S2540G-15	1	11/22/2024 20:42	LMD	E
Solids, Total Volatile	21.5	S1	%	1.0	0.1	S2540G-15	1	11/27/2024 15:15	LMD	E
Specific Gravity	1.67	10,S1				S2710F-09	1	11/26/2024 11:40	NPF	D
Sulfide, Reactive	4.0J	J,S1	mg/kg	6.2	1.4	SW846 7.3	1	11/27/2024 16:49	KMV	E
Total Solids	74.9	S1	%	0.1	0.01	S2540G-15	1	11/22/2024 20:42	LMD	E

Results

Client Sample ID	IDW-W	Collected	11/21/2024 17:00
Lab Sample ID	3389099004	Lab Receipt	11/22/2024 09:07

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	2.8		mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Antimony, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/06/2024 10:08	MSY	E1
Arsenic, Total	0.010		mg/L	0.0090	0.0037	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Barium, Total	0.20		mg/L	0.011	0.0036	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Beryllium, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Cadmium, Total	ND	ND	mg/L	0.0022	0.00073	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Calcium, Total	148		mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Chromium, Total	0.014		mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Cobalt, Total	0.0070		mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Copper, Total	0.021		mg/L	0.011	0.0036	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Iron, Total	11.2		mg/L	0.067	0.022	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Lead, Total	0.028		mg/L	0.0067	0.0022	SW846 6010C	1	12/06/2024 10:08	MSY	E1
Magnesium, Total	119		mg/L	0.11	0.036	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Manganese, Total	1.8		mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Mercury, Total	ND	ND	mg/L	0.00050	0.00017	SW846 7470A	1	12/02/2024 13:42	AXW	E2
Nickel, Total	0.018J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Potassium, Total	57.6		mg/L	0.56	0.18	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Selenium, Total	0.0094J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Silver, Total	ND	ND	mg/L	0.0044	0.0014	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Sodium, Total	109		mg/L	0.56	0.18	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Thallium, Total	ND	ND	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Vanadium, Total	0.0040J	J	mg/L	0.0056	0.0020	SW846 6010C	1	12/05/2024 13:09	MSY	E1
Zinc, Total	0.019J	J	mg/L	0.022	0.0073	SW846 6010C	1	12/05/2024 13:09	MSY	E1

PCBs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aroclor-1016	ND	ND	ug/L	2.0	0.68	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1221	ND	ND	ug/L	2.0	0.56	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1232	ND	ND	ug/L	2.0	0.72	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1242	ND	ND	ug/L	2.0	0.44	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1248	ND	ND	ug/L	2.0	0.40	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1254	ND	ND	ug/L	2.0	0.40	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1260	ND	ND	ug/L	2.0	0.84	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1262	ND	ND	ug/L	2.0	0.56	SW846 8082A	1	11/27/2024 03:08	DXL	G
Aroclor-1268	ND	ND	ug/L	2.0	0.76	SW846 8082A	1	11/27/2024 03:08	DXL	G
Total Polychlorinated Biphenyl	ND	ND	ug/L	2.0	1.1	SW846 8082A	1	11/27/2024 03:08	DXL	G

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	26.9*%	30 -140	11/27/2024 03:08	12,13
Tetrachloro-m-xylene	877-09-8	39.9%	30 -133	11/27/2024 03:08	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

Results

Client Sample ID	IDW-W	Collected	11/21/2024 17:00
Lab Sample ID	3389099004	Lab Receipt	11/22/2024 09:07

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2,4,5-Tetrachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
1,4-Dioxane	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,3,4,6-Tetrachlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,4,5-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,4,6-Trichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,4-Dichlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,4-Dimethylphenol	60.1		ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,4-Dinitrophenol	ND	ND	ug/L	15.0	10.8	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,4-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
2,6-Dinitrotoluene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
2-Chloronaphthalene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
2-Chlorophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
2-Methyl-4,6-dinitrophenol	ND	ND	ug/L	15.0	7.5	SW846 8270E	1	11/27/2024 13:35	S7M	D
2-Methylnaphthalene	172		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
2-Nitroaniline	ND	ND	ug/L	7.5	0.65	SW846 8270E	1	11/27/2024 13:35	S7M	D
2-Nitrophenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
3,3-Dichlorobenzidine	ND	ND	ug/L	40.0	21.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
3-Nitroaniline	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	11/27/2024 13:35	S7M	D
4-Bromophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
4-Chloro-3-methylphenol	ND	ND	ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
4-Chloroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
4-Chlorophenyl-phenylether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
4-Nitroaniline	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
4-Nitrophenol	ND	ND	ug/L	7.5	2.8	SW846 8270E	1	11/27/2024 13:35	S7M	D
Acenaphthene	55.3		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Acenaphthylene	149		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Acetophenone	10.0		ug/L	7.5	2.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
Anthracene	33.0		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Atrazine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Benzaldehyde	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Benzo(a)anthracene	16.1		ug/L	3.8	0.70	SW846 8270E	1	11/27/2024 13:35	S7M	D
Benzo(a)pyrene	13.9		ug/L	3.8	0.65	SW846 8270E	1	11/27/2024 13:35	S7M	D
Benzo(b)fluoranthene	11.6		ug/L	3.8	0.75	SW846 8270E	1	11/27/2024 13:35	S7M	D
Benzo(g,h,i)perylene	8.5		ug/L	3.8	0.90	SW846 8270E	1	11/27/2024 13:35	S7M	D
Benzo(k)fluoranthene	11.6		ug/L	3.8	0.85	SW846 8270E	1	11/27/2024 13:35	S7M	D
Biphenyl	26.6		ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
bis(2-Chloroethoxy)methane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
bis(2-Chloroethyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
bis(2-Chloroisopropyl)ether	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
bis(2-Ethylhexyl)phthalate	ND	ND	ug/L	7.5	1.2	SW846 8270E	1	11/27/2024 13:35	S7M	D
Butylbenzylphthalate	ND	ND	ug/L	7.5	0.78	SW846 8270E	1	11/27/2024 13:35	S7M	D
Caprolactam	ND	ND	ug/L	7.5	0.90	SW846 8270E	1	11/27/2024 13:35	S7M	D
Carbazole	104		ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Chrysene	16.6		ug/L	3.8	0.65	SW846 8270E	1	11/27/2024 13:35	S7M	D
Dibenzo(a,h)anthracene	2.2J	J	ug/L	3.8	0.80	SW846 8270E	1	11/27/2024 13:35	S7M	D
Dibenzofuran	73.5		ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Diethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D

Results

Client Sample ID	IDW-W	Collected	11/21/2024 17:00
Lab Sample ID	3389099004	Lab Receipt	11/22/2024 09:07

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dimethylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Di-n-Butylphthalate	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	11/27/2024 13:35	S7M	D
Di-n-Octylphthalate	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Fluoranthene	69.7		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Fluorene	97.9		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Hexachlorobenzene	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Hexachlorobutadiene	ND	ND	ug/L	7.5	0.70	SW846 8270E	1	11/27/2024 13:35	S7M	D
Hexachlorocyclopentadiene	ND	ND	ug/L	7.5	1.1	SW846 8270E	1	11/27/2024 13:35	S7M	D
Hexachloroethane	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Indeno(1,2,3-cd)pyrene	9.4		ug/L	3.8	0.78	SW846 8270E	1	11/27/2024 13:35	S7M	D
Isophorone	ND	ND	ug/L	7.5	0.93	SW846 8270E	1	11/27/2024 13:35	S7M	D
mp-Cresol	53.4		ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
Naphthalene	4370	E	ug/L	37.5	16.3	SW846 8270E	10	11/29/2024 12:27	S7M	D
Nitrobenzene	ND	ND	ug/L	7.5	1.5	SW846 8270E	1	11/27/2024 13:35	S7M	D
N-Nitroso-di-n-propylamine	ND	ND	ug/L	7.5	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
N-Nitrosodiphenylamine	ND	ND	ug/L	7.5	0.80	SW846 8270E	1	11/27/2024 13:35	S7M	D
o-Cresol	30.5		ug/L	7.5	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
Pentachlorophenol	ND	ND	ug/L	20.0	3.5	SW846 8270E	1	11/27/2024 13:35	S7M	D
Phenanthrene	161		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D
Phenol	30.0		ug/L	20.0	1.3	SW846 8270E	1	11/27/2024 13:35	S7M	D
Pyrene	49.3		ug/L	3.8	0.63	SW846 8270E	1	11/27/2024 13:35	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2,4,6-Tribromophenol	118-79-6	84.8%	23 – 131	11/27/2024 13:35	
2-Fluorobiphenyl	321-60-8	62.4%	24 – 116	11/27/2024 13:35	
2-Fluorophenol	367-12-4	34.5%	10 – 85	11/27/2024 13:35	
Nitrobenzene-d5	4165-60-0	62.1%	32 – 125	11/27/2024 13:35	
Phenol-d5	4165-62-2	26.3%	7 – 56	11/27/2024 13:35	
Terphenyl-d14	98904-43-9	62.8%	41 – 145	11/27/2024 13:35	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1-Trichloroethane	ND	ND	ug/L	20.0	4.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,1,2,2-Tetrachloroethane	ND	ND	ug/L	20.0	6.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,1,2-Trichloroethane	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,1-Dichloroethane	ND	ND	ug/L	20.0	5.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,1-Dichloroethene	ND	ND	ug/L	20.0	5.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2,3-Trichlorobenzene	ND	ND	ug/L	40.0	18.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2,3-Trichloropropane	ND	ND	ug/L	40.0	12.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2,4-Trichlorobenzene	ND	ND	ug/L	40.0	16.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2,4-Trimethylbenzene	48.4		ug/L	20.0	5.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2-Dibromo-3-chloropropane	ND	ND	ug/L	140	30.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2-Dibromoethane	ND	ND	ug/L	20.0	5.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2-Dichlorobenzene	ND	ND	ug/L	20.0	7.6	SW846 8260D	20	11/27/2024 17:53	TMP	A

Results

Client Sample ID	IDW-W	Collected	11/21/2024 17:00
Lab Sample ID	3389099004	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,2-Dichloroethane	ND	ND	ug/L	20.0	6.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,2-Dichloropropane	ND	ND	ug/L	20.0	4.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,3,5-Trimethylbenzene	23.8		ug/L	20.0	4.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,3-Dichlorobenzene	ND	ND	ug/L	20.0	5.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
1,4-Dichlorobenzene	ND	ND	ug/L	20.0	5.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
2-Butanone	ND	ND	ug/L	200	36.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
2-Hexanone	ND	ND	ug/L	100	26.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
4-Methyl-2-Pentanone(MIBK)	ND	ND	ug/L	100	30.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
Acetone	ND	ND	ug/L	200	62.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
Benzene	6400		ug/L	50.0	11.5	SW846 8260D	50	11/30/2024 00:52	PDK	B
Bromochloromethane	ND	ND	ug/L	20.0	6.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
Bromodichloromethane	ND	ND	ug/L	20.0	5.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
Bromoform	ND	ND	ug/L	20.0	8.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
Bromomethane	ND	ND,11	ug/L	20.0	7.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Carbon Disulfide	ND	ND	ug/L	20.0	4.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Carbon Tetrachloride	ND	ND	ug/L	20.0	6.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
Chlorobenzene	ND	ND	ug/L	20.0	3.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Chlorodibromomethane	ND	ND	ug/L	20.0	9.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
Chloroethane	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Chloroform	ND	ND	ug/L	20.0	4.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
Chloromethane	ND	ND	ug/L	20.0	6.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
cis-1,2-Dichloroethene	ND	ND	ug/L	20.0	6.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
cis-1,3-Dichloropropene	ND	ND	ug/L	20.0	6.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
Cyclohexane	ND	ND	ug/L	20.0	5.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Dichlorodifluoromethane	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Ethylbenzene	50.4		ug/L	20.0	6.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Freon 113	ND	ND	ug/L	20.0	5.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
Isopropylbenzene	ND	ND	ug/L	20.0	4.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
Methyl acetate	ND	ND	ug/L	40.0	6.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
Methyl cyclohexane	ND	ND	ug/L	20.0	6.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
Methyl t-Butyl Ether	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Methylene Chloride	ND	ND	ug/L	20.0	9.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
mp-Xylene	125		ug/L	40.0	10.4	SW846 8260D	20	11/27/2024 17:53	TMP	A
o-Xylene	57.5		ug/L	20.0	6.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Styrene	15.8J	J	ug/L	20.0	4.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Tetrachloroethene	ND	ND	ug/L	20.0	7.0	SW846 8260D	20	11/27/2024 17:53	TMP	A
Toluene	179		ug/L	20.0	4.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Total Xylenes	183		ug/L	60.0	13.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
trans-1,2-Dichloroethene	ND	ND	ug/L	20.0	5.2	SW846 8260D	20	11/27/2024 17:53	TMP	A
trans-1,3-Dichloropropene	ND	ND	ug/L	20.0	5.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Trichloroethene	ND	ND	ug/L	20.0	6.6	SW846 8260D	20	11/27/2024 17:53	TMP	A
Trichlorofluoromethane	ND	ND	ug/L	20.0	4.8	SW846 8260D	20	11/27/2024 17:53	TMP	A
Vinyl Chloride	ND	ND	ug/L	20.0	6.0	SW846 8260D	20	11/27/2024 17:53	TMP	A

Results

Client Sample ID	IDW-W	Collected	11/21/2024 17:00
Lab Sample ID	3389099004	Lab Receipt	11/22/2024 09:07

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	62 – 133	11/27/2024 17:53	
1,2-Dichloroethane-d4	17060-07-0	97.1%	62 – 133	11/30/2024 00:52	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	11/27/2024 17:53	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	11/30/2024 00:52	
Dibromofluoromethane	1868-53-7	101%	78 – 116	11/27/2024 17:53	
Dibromofluoromethane	1868-53-7	95.4%	78 – 116	11/30/2024 00:52	
Toluene-d8	2037-26-5	102%	76 – 127	11/27/2024 17:53	
Toluene-d8	2037-26-5	101%	76 – 127	11/30/2024 00:52	

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Corrosivity as pH	7.95	8	pH_Units			SW846 9040C	1	11/27/2024 18:26	KMV	H
Cyanide, Reactive	ND	ND	mg/kg	10.0	0.011	SW-846 7.3CN	1	11/29/2024 13:53	KMV	G
Flashpoint/Ignitability	See comment.	14	Deg. F			SW-846 1010B	1	11/23/2024 09:25	CAB	G
Free Liquids	Positive					SW846 9095B	1	11/26/2024 09:00	ZAS	G
Sulfide, Reactive	5.2J	J	mg/kg	6.3	1.4	SW846 7.3	1	11/27/2024 16:49	KMV	G

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3389099003	IDW-S	SW846 9095B	N/A	
		SW846 6010C	SW846 3015A	SW846 1311
		SW846 7470A	SW846 7470A	SW846 1311
		SW846 8082A	SW846 3546	
		SW846 8270E	SW846 3546	
		SW846 8270E	SW846 3510C	SW846 1311
		SW846 8260D	N/A	SW846 1311
		SW846 8260D	SW846 5035A	
		S2540G-15	N/A	
		S2540G-15	N/A	
		S2710F-09	N/A	
		SW846 1030	N/A	
		SW846 7.3	SW846 7.3	
		SW-846 7.3CN	SW-846 7.3CN	
		SW846 9045D	N/A	
3389099004	IDW-W	SW846 9095B	N/A	
		SW846 6010C	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8082A	SW846 3511	
		SW846 8270E	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
		SW-846 1010B	N/A	
		SW846 7.3	SW846 7.3	
		SW-846 7.3CN	SW-846 7.3CN	
		SW846 9040C	N/A	

QUALITY CONTROL SAMPLES

METALS

QC Batch

QC Batch	1340185	Prep Method	SW846 3015A
Date	11/28/2024 01:45	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3389099004

Matrix Spike 3910000 (MS) 3389260007 (non-Project Sample) For QC Batch 1340185

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3910001 (MSD) 3389260007 (non-Project Sample) For QC Batch 1340185

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sodium, Total	7440-23-5	MS	44.8	21.80	22.20	104	75 - 125		
Sodium, Total	7440-23-5	MSD	45	21.80	22.20	104	75 - 125	RPD 0.39 (Max-20)	

Method Blank 3909998 (MB) Created on 11/25/2024 15:18 For QC Batch 1340185

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND	mg/L	0.11	ND
Antimony, Total	7440-36-0	BLK	ND	mg/L	0.022	ND
Arsenic, Total	7440-38-2	BLK	ND	mg/L	0.0090	ND
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Beryllium, Total	7440-41-7	BLK	ND	mg/L	0.0044	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Calcium, Total	7440-70-2	BLK	ND	mg/L	0.11	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Cobalt, Total	7440-48-4	BLK	ND	mg/L	0.0056	ND
Copper, Total	7440-50-8	BLK	ND	mg/L	0.011	ND
Iron, Total	7439-89-6	BLK	ND	mg/L	0.067	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Magnesium, Total	7439-95-4	BLK	ND	mg/L	0.11	ND
Manganese, Total	7439-96-5	BLK	ND	mg/L	0.0056	ND
Nickel, Total	7440-02-0	BLK	ND	mg/L	0.022	ND
Potassium, Total	7440-09-7	BLK	ND	mg/L	0.56	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND
Sodium, Total	7440-23-5	BLK	ND	mg/L	0.56	ND
Thallium, Total	7440-28-0	BLK	ND	mg/L	0.022	ND
Vanadium, Total	7440-62-2	BLK	ND	mg/L	0.0056	ND
Zinc, Total	7440-66-6	BLK	ND	mg/L	0.022	ND

QUALITY CONTROL SAMPLES

METALS (cont.)

Lab Control Standard 3909999 (LCS) Created on 11/25/2024 15:18 For QC Batch 1340185

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aluminum, Total	7429-90-5	LCS	1.1		1.10	100	80 - 120		
Antimony, Total	7440-36-0	LCS	0.24		0.22	107	80 - 120		
Arsenic, Total	7440-38-2	LCS	0.11		0.11	100	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	104	80 - 120		
Beryllium, Total	7440-41-7	LCS	0.23		0.22	104	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.11		0.11	103	80 - 120		
Calcium, Total	7440-70-2	LCS	1.1		1.10	98.1	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	104	80 - 120		
Cobalt, Total	7440-48-4	LCS	1.2		1.10	104	80 - 120		
Copper, Total	7440-50-8	LCS	1.1		1.10	99.6	80 - 120		
Iron, Total	7439-89-6	LCS	1.1		1.10	103	80 - 120		
Lead, Total	7439-92-1	LCS	0.12		0.11	104	80 - 120		
Magnesium, Total	7439-95-4	LCS	1.1		1.10	103	80 - 120		
Manganese, Total	7439-96-5	LCS	0.12		0.11	109	80 - 120		
Nickel, Total	7440-02-0	LCS	1.2		1.10	104	80 - 120		
Potassium, Total	7440-09-7	LCS	22.5		22.20	101	80 - 120		
Selenium, Total	7782-49-2	LCS	1.1		1.10	100	80 - 120		
Silver, Total	7440-22-4	LCS	0.12		0.11	104	80 - 120		
Sodium, Total	7440-23-5	LCS	22.9		22.20	103	80 - 120		
Thallium, Total	7440-28-0	LCS	0.1		0.11	92.2	80 - 120		
Vanadium, Total	7440-62-2	LCS	0.058		0.0560	105	80 - 120		
Zinc, Total	7440-66-6	LCS	0.56		0.56	101	80 - 120		

QC Batch

QC Batch	1348909	Prep Method	SW846 7470A
Date	12/02/2024 10:06	Analysis Method	SW846 7470A
Tech.	AXW		

Associated Samples

3389099004

Matrix Spike 3911958 (MS) 3389179002 (non-Project Sample) For QC Batch 1348909

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911959 (MSD) 3389179002 (non-Project Sample) For QC Batch 1348909

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0044	0.000033	0.0050	87.9	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0041	0.000033	0.0050	82.1	70 - 130	RPD 6.77 (Max-20)	

QUALITY CONTROL SAMPLES

METALS (cont.)

Matrix Spike 3911960 (MS) 3389583005 (non-Project Sample) For QC Batch 1348909

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911961 (MSD) 3389583005 (non-Project Sample) For QC Batch 1348909

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0045	0.000089	0.0050	88.6	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0048	0.000089	0.0050	94	70 - 130	RPD 5.80 (Max-20)	

Method Blank 3911956 (MB) Created on 12/02/2024 08:03 For QC Batch 1348909

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3911957 (LCS) Created on 12/02/2024 08:03 For QC Batch 1348909

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0019		0.0020	96.5	85 - 115		

QUALITY CONTROL SAMPLES

PCBs

QC Batch

QC Batch	1339884	Prep Method	SW846 3546
Date	11/26/2024 13:45	Analysis Method	SW846 8082A
Tech.	GED		

Associated Samples

3389099003

Duplicate

3909948 (DUP) 3389154002 (non-Project Sample) For QC Batch 1339884

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)				Qualifiers
Aroclor-1016	12674-11-2	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1221	11104-28-2	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1232	11141-16-5	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1242	53469-21-9	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1248	12672-29-6	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1254	11097-69-1	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1260	11096-82-5	DUP	0.0173	0.0174	RPD	0.11	(Max-40)	J
Aroclor-1262	37324-23-5	DUP	0	0	RPD	0	(Max-40)	ND
Aroclor-1268	11100-14-4	DUP	0	0	RPD	0	(Max-40)	ND

SURROGATES

Compound	CAS No		Result (mg/kg)	Expected (mg/kg)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	DUP	0.074	0.0830	89	49 - 115	
Tetrachloro-m-xylene	877-09-8	DUP	0.072	0.0830	86.4	27 - 137	

Matrix Spike

3909949 (MS) 3389154003 (non-Project Sample) For QC Batch 1339884

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aroclor-1016	12674-11-2	MS	0.24	0	0.32	73.7	43 - 132		
Aroclor-1260	11096-82-5	MS	0.25	0.0410	0.32	64	53 - 134		

SURROGATES

Compound	CAS No		Result (mg/kg)	Expected (mg/kg)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	MS	0.074	0.0810	91.3	49 - 115	
Tetrachloro-m-xylene	877-09-8	MS	0.072	0.0810	88.5	27 - 137	

QUALITY CONTROL SAMPLES

PCBs (cont.)

Method Blank 3909946 (MB) Created on 11/25/2024 13:25 For QC Batch 1339884

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aroclor-1016	12674-11-2	BLK	ND	mg/kg	0.033	ND
Aroclor-1221	11104-28-2	BLK	ND	mg/kg	0.033	ND
Aroclor-1232	11141-16-5	BLK	ND	mg/kg	0.033	ND
Aroclor-1242	53469-21-9	BLK	ND	mg/kg	0.033	ND
Aroclor-1248	12672-29-6	BLK	ND	mg/kg	0.033	ND
Aroclor-1254	11097-69-1	BLK	ND	mg/kg	0.033	ND
Aroclor-1260	11096-82-5	BLK	ND	mg/kg	0.033	ND
Aroclor-1262	37324-23-5	BLK	ND	mg/kg	0.033	ND
Aroclor-1268	11100-14-4	BLK	ND	mg/kg	0.033	ND

SURROGATES

Compound	CAS No		Result (mg/kg)	Expected (mg/kg)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	BLK	0.084	0.0830	101	49 - 115	
Tetrachloro-m-xylene	877-09-8	BLK	0.079	0.0830	94.9	27 - 137	

Lab Control Standard 3909947 (LCS) Created on 11/25/2024 13:25 For QC Batch 1339884

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aroclor-1016	12674-11-2	LCS	0.25		0.33	73.7	43 - 132		
Aroclor-1260	11096-82-5	LCS	0.28		0.33	84.2	53 - 134		

SURROGATES

Compound	CAS No		Result (mg/kg)	Expected (mg/kg)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	LCS	0.09	0.0830	109	49 - 115	
Tetrachloro-m-xylene	877-09-8	LCS	0.081	0.0830	97.8	27 - 137	

QC Batch

QC Batch	1344598	Prep Method	SW846 3511
Date	11/26/2024 19:55	Analysis Method	SW846 8082A
Tech.	BMP		

Associated Samples

3389099004

Matrix Spike 3910801 (MS) 3389332001 (non-Project Sample) For QC Batch 1344598

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3910802 (MSD) 3389332001 (non-Project Sample) For QC Batch 1344598

QUALITY CONTROL SAMPLES

PCBs (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aroclor-1016	12674-11-2	MS	4.5	0	5	90.9	43 - 132		
Aroclor-1016	12674-11-2	MSD	4.4	0	5	88.4	43 - 132	RPD 2.83 (Max-40)	
Aroclor-1260	11096-82-5	MS	4.4	0	5	87.7	43 - 132		
Aroclor-1260	11096-82-5	MSD	3	0	5	59.8	43 - 132	RPD 37.90 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	MS	0.34	0.50	67.8	30 - 140	
Decachlorobiphenyl	2051-24-3	MSD	0.12	0.50	24.5*	30 - 140	
Tetrachloro-m-xylene	877-09-8	MS	0.5	0.50	100	30 - 133	
Tetrachloro-m-xylene	877-09-8	MSD	0.49	0.50	97.5	30 - 133	

Method Blank 3910799 (MB) Created on 11/26/2024 17:42 For QC Batch 1344598

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Aroclor-1016	12674-11-2	BLK	ND	ug/L	0.50	ND
Aroclor-1221	11104-28-2	BLK	ND	ug/L	0.50	ND
Aroclor-1232	11141-16-5	BLK	ND	ug/L	0.50	ND
Aroclor-1242	53469-21-9	BLK	ND	ug/L	0.50	ND
Aroclor-1248	12672-29-6	BLK	ND	ug/L	0.50	ND
Aroclor-1254	11097-69-1	BLK	ND	ug/L	0.50	ND
Aroclor-1260	11096-82-5	BLK	ND	ug/L	0.50	ND
Aroclor-1262	37324-23-5	BLK	ND	ug/L	0.50	ND
Aroclor-1268	11100-14-4	BLK	ND	ug/L	0.50	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	BLK	0.47	0.50	94.1	30 - 140	
Tetrachloro-m-xylene	877-09-8	BLK	0.38	0.50	75.5	30 - 133	

Lab Control Standard 3910800 (LCS) Created on 11/26/2024 17:42 For QC Batch 1344598

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Aroclor-1016	12674-11-2	LCS	4.2		5	83.5	43 - 132		
Aroclor-1260	11096-82-5	LCS	4.3		5	86.5	43 - 132		

QUALITY CONTROL SAMPLES

PCBs (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Decachlorobiphenyl	2051-24-3	LCS	0.4	0.50	79.8	30 - 140	
Tetrachloro-m-xylene	877-09-8	LCS	0.38	0.50	75.8	30 - 133	

QUALITY CONTROL SAMPLES

SEMIVOLATILES

QC Batch

QC Batch	1338201	Prep Method	SW846 3546
Date	11/24/2024 19:55	Analysis Method	SW846 8270E
Tech.	J1H		

Associated Samples

3389099003

Method Blank 3909286 (MB) Created on 11/22/2024 16:36 For QC Batch 1338201

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/kg	100	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/kg	100	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/kg	200	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/kg	200	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/kg	200	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/kg	200	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/kg	200	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/kg	400	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/kg	100	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/kg	100	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/kg	100	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/kg	200	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/kg	200	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/kg	100	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/kg	200	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/kg	200	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/kg	200	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/kg	200	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/kg	100	ND
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/kg	200	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/kg	200	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/kg	100	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/kg	200	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/kg	200	ND
Acenaphthene	83-32-9	BLK	ND	ug/kg	50.0	ND
Acenaphthylene	208-96-8	BLK	ND	ug/kg	50.0	ND
Acetophenone	98-86-2	BLK	ND	ug/kg	100	ND
Anthracene	120-12-7	BLK	ND	ug/kg	50.0	ND
Atrazine	1912-24-9	BLK	ND	ug/kg	100	ND
Benzaldehyde	100-52-7	BLK	ND	ug/kg	200	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/kg	50.0	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/kg	50.0	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/kg	50.0	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/kg	50.0	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/kg	50.0	ND
Biphenyl	92-52-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/kg	100	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/kg	100	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/kg	100	ND

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/kg	100	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/kg	100	ND
Caprolactam	105-60-2	BLK	ND	ug/kg	200	ND
Carbazole	86-74-8	BLK	ND	ug/kg	100	ND
Chrysene	218-01-9	BLK	ND	ug/kg	50.0	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/kg	50.0	ND
Dibenzofuran	132-64-9	BLK	ND	ug/kg	100	ND
Diethylphthalate	84-66-2	BLK	ND	ug/kg	100	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/kg	100	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/kg	100	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/kg	100	ND
Fluoranthene	206-44-0	BLK	ND	ug/kg	50.0	ND
Fluorene	86-73-7	BLK	ND	ug/kg	50.0	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/kg	100	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/kg	100	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/kg	200	ND
Hexachloroethane	67-72-1	BLK	ND	ug/kg	100	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/kg	50.0	ND
Isophorone	78-59-1	BLK	ND	ug/kg	100	ND
mp-Cresol	108394/106445	BLK	ND	ug/kg	200	ND
Naphthalene	91-20-3	BLK	ND	ug/kg	50.0	ND
Nitrobenzene	98-95-3	BLK	ND	ug/kg	100	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/kg	100	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/kg	100	ND
o-Cresol	95-48-7	BLK	ND	ug/kg	200	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/kg	200	ND
Phenanthrene	85-01-8	BLK	ND	ug/kg	50.0	ND
Phenol	108-95-2	BLK	ND	ug/kg	200	ND
Pyrene	129-00-0	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	4100	5000	81.9	19 - 132	
2-Fluorobiphenyl	321-60-8	BLK	2020	2500	80.8	40 - 110	
2-Fluorophenol	367-12-4	BLK	4160	5000	83.3	26 - 116	
Nitrobenzene-d5	4165-60-0	BLK	2100	2500	83.9	38 - 112	
Phenol-d5	4165-62-2	BLK	4350	5000	87.1	35 - 111	
Terphenyl-d14	98904-43-9	BLK	2380	2500	95.3	45 - 126	

Lab Control Standard 3909287 (LCS) Created on 11/22/2024 16:36 For QC Batch 1338201

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	1950		2500	77.9	51 - 102		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS	1750		2500	69.8	24 - 104		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	3490		5000	69.7	55 - 111		
2,4,5-Trichlorophenol	95-95-4	LCS	4270		5000	85.4	60 - 108		
2,4,6-Trichlorophenol	88-06-2	LCS	4170		5000	83.4	59 - 111		
2,4-Dichlorophenol	120-83-2	LCS	4380		5000	87.6	61 - 109		
2,4-Dimethylphenol	105-67-9	LCS	4500		5000	90	59 - 133		
2,4-Dinitrophenol	51-28-5	LCS	4270		5000	85.5	28 - 135		
2,4-Dinitrotoluene	121-14-2	LCS	2350		2500	93.9	62 - 115		
2,6-Dinitrotoluene	606-20-2	LCS	2290		2500	91.6	61 - 114		
2-Chloronaphthalene	91-58-7	LCS	2120		2500	84.9	59 - 104		
2-Chlorophenol	95-57-8	LCS	4560		5000	91.2	61 - 106		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	4540		5000	90.7	39 - 113		
2-Methylnaphthalene	91-57-6	LCS	1990		2500	79.6	59 - 108		
2-Nitroaniline	88-74-4	LCS	2350		2500	94.1	60 - 115		
2-Nitrophenol	88-75-5	LCS	4560		5000	91.3	60 - 114		
3,3-Dichlorobenzidine	91-94-1	LCS	3200		5000	64	25 - 104		
3-Nitroaniline	99-09-2	LCS	2480		2500	99.1	52 - 119		
4-Bromophenyl-phenylether	101-55-3	LCS	1920		2500	76.7	60 - 110		
4-Chloro-3-methylphenol	59-50-7	LCS	4290		5000	85.7	59 - 115		
4-Chloroaniline	106-47-8	LCS	2330		2500	93.4	42 - 111		
4-Chlorophenyl-phenylether	7005-72-3	LCS	1980		2500	79.2	59 - 107		
4-Nitroaniline	100-01-6	LCS	2480		2500	99.1	49 - 121		
4-Nitrophenol	100-02-7	LCS	4950		5000	99.1	53 - 124		
Acenaphthene	83-32-9	LCS	2120		2500	84.7	61 - 105		
Acenaphthylene	208-96-8	LCS	1870		2500	74.8	63 - 106		
Acetophenone	98-86-2	LCS	1900		2500	76	33 - 98		
Anthracene	120-12-7	LCS	2200		2500	88	60 - 107		
Atrazine	1912-24-9	LCS	2060		2500	82.5	62 - 116		
Benzaldehyde	100-52-7	LCS	2100		2500	83.9	46 - 115		
Benzo(a)anthracene	56-55-3	LCS	2220		2500	88.8	61 - 113		
Benzo(a)pyrene	50-32-8	LCS	2250		2500	90	68 - 121		
Benzo(b)fluoranthene	205-99-2	LCS	2190		2500	87.4	64 - 115		
Benzo(g,h,i)perylene	191-24-2	LCS	2660		2500	106	57 - 119		
Benzo(k)fluoranthene	207-08-9	LCS	2210		2500	88.4	63 - 116		
Biphenyl	92-52-4	LCS	1950		2500	77.9	56 - 100		
bis(2-Chloroethoxy)methane	111-91-1	LCS	2080		2500	83.1	56 - 112		
bis(2-Chloroethyl)ether	111-44-4	LCS	2070		2500	82.6	51 - 109		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	1830		2500	73.2	38 - 120		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	1480		2500	59.1	51 - 130		
Butylbenzylphthalate	85-68-7	LCS	1720		2500	68.8	58 - 125		
Caprolactam	105-60-2	LCS	2660		2500	107	51 - 119		
Carbazole	86-74-8	LCS	2320		2500	93	66 - 117		
Chrysene	218-01-9	LCS	2330		2500	93.1	65 - 113		
Dibenzo(a,h)anthracene	53-70-3	LCS	2410		2500	96.5	59 - 116		
Dibenzofuran	132-64-9	LCS	2080		2500	83.3	62 - 106		
Diethylphthalate	84-66-2	LCS	1950		2500	78	59 - 112		
Dimethylphthalate	131-11-3	LCS	2030		2500	81.3	60 - 111		

QUALITY CONTROL SAMPLES

SEMIVOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Di-n-Butylphthalate	84-74-2	LCS	1810		2500	72.4	62 - 125		
Di-n-Octylphthalate	117-84-0	LCS	1500		2500	60	47 - 134		
Fluoranthene	206-44-0	LCS	2230		2500	89.1	61 - 114		
Fluorene	86-73-7	LCS	2090		2500	83.6	62 - 107		
Hexachlorobenzene	118-74-1	LCS	2050		2500	81.9	56 - 111		
Hexachlorobutadiene	87-68-3	LCS	2120		2500	84.9	56 - 127		
Hexachlorocyclopentadiene	77-47-4	LCS	1180		2500	47.3	20 - 124		
Hexachloroethane	67-72-1	LCS	1890		2500	75.6	57 - 101		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	2360		2500	94.5	53 - 118		
Isophorone	78-59-1	LCS	1950		2500	78	41 - 101		
mp-Cresol	108394/106445	LCS	4310		5000	86.3	60 - 109		
Naphthalene	91-20-3	LCS	2100		2500	83.8	60 - 102		
Nitrobenzene	98-95-3	LCS	2170		2500	86.9	52 - 113		
N-Nitroso-di-n-propylamine	621-64-7	LCS	1970		2500	78.9	50 - 121		
N-Nitrosodiphenylamine	86-30-6	LCS	2460		2500	98.4	73 - 129		
o-Cresol	95-48-7	LCS	4180		5000	83.6	61 - 108		
Pentachlorophenol	87-86-5	LCS	2990		5000	59.8	46 - 138		
Phenanthrene	85-01-8	LCS	2170		2500	87	61 - 106		
Phenol	108-95-2	LCS	4420		5000	88.5	57 - 110		
Pyrene	129-00-0	LCS	2170		2500	86.9	62 - 117		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	4280	5000	85.7	19 - 132	
2-Fluorobiphenyl	321-60-8	LCS	1970	2500	78.8	40 - 110	
2-Fluorophenol	367-12-4	LCS	4340	5000	86.8	26 - 116	
Nitrobenzene-d5	4165-60-0	LCS	2150	2500	86.1	38 - 112	
Phenol-d5	4165-62-2	LCS	4440	5000	88.9	35 - 111	
Terphenyl-d14	98904-43-9	LCS	2230	2500	89.3	45 - 126	

QUALITY CONTROL SAMPLES

TCLP EPA 1311 METALS

QC Batch

QC Batch	1340188	Prep Method	SW846 3015A
Date	11/26/2024 01:38	Analysis Method	SW846 6010C
Tech.	ANN		

Associated Samples

3389099003

Leachate Blank 3909556 (LB) Created on 11/24/2024 08:14 For QC Batch 1340188

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Arsenic, Total	7440-38-2	BLK	ND	mg/L	.05	U
Barium, Total	7440-39-3	BLK	ND	mg/L	.05	U
Cadmium, Total	7440-43-9	BLK	ND	mg/L	.0099	U
Chromium, Total	7440-47-3	BLK	ND	mg/L	.025	U
Lead, Total	7439-92-1	BLK	ND	mg/L	.03	U
Selenium, Total	7782-49-2	BLK	ND	mg/L	.099	U
Silver, Total	7440-22-4	BLK	ND	mg/L	.02	U

Method Blank 3910028 (MB) Created on 11/25/2024 15:21 For QC Batch 1340188

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Arsenic, Total	7440-38-2	BLK	0.0033J	mg/L	0.011	J
Barium, Total	7440-39-3	BLK	ND	mg/L	0.011	ND
Cadmium, Total	7440-43-9	BLK	ND	mg/L	0.0022	ND
Chromium, Total	7440-47-3	BLK	ND	mg/L	0.0056	ND
Lead, Total	7439-92-1	BLK	ND	mg/L	0.0067	ND
Selenium, Total	7782-49-2	BLK	ND	mg/L	0.022	ND
Silver, Total	7440-22-4	BLK	ND	mg/L	0.0044	ND

Lab Control Standard 3910029 (LCS) Created on 11/25/2024 15:21 For QC Batch 1340188

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Arsenic, Total	7440-38-2	LCS	0.11		0.11	98.4	80 - 120		
Barium, Total	7440-39-3	LCS	1.2		1.10	105	80 - 120		
Cadmium, Total	7440-43-9	LCS	0.12		0.11	104	80 - 120		
Chromium, Total	7440-47-3	LCS	0.12		0.11	105	80 - 120		
Lead, Total	7439-92-1	LCS	0.11		0.11	103	80 - 120		
Selenium, Total	7782-49-2	LCS	1.2		1.10	105	80 - 120		
Silver, Total	7440-22-4	LCS	0.11		0.11	102	80 - 120		

QUALITY CONTROL SAMPLES

TCLP EPA 1311 METALS (cont.)

Matrix Spike 3910030 (MS) 3389099003 For QC Batch 1340188

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3910031 (MSD) 3389099003 For QC Batch 1340188

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Arsenic, Total	7440-38-2	MS	0.53	0	0.50	105	50 - 150		
Arsenic, Total	7440-38-2	MSD	0.52	0	0.50	105	50 - 150	RPD 0.10 (Max-20)	
Barium, Total	7440-39-3	MS	5.5	0.54	5	98.6	50 - 150		
Barium, Total	7440-39-3	MSD	5.6	0.54	5	102	50 - 150	RPD 2.68 (Max-20)	
Cadmium, Total	7440-43-9	MS	0.49	0.0015	0.50	98.1	50 - 150		
Cadmium, Total	7440-43-9	MSD	0.51	0.0015	0.50	102	50 - 150	RPD 3.79 (Max-20)	
Chromium, Total	7440-47-3	MS	0.5	0.0065	0.50	99.7	50 - 150		
Chromium, Total	7440-47-3	MSD	0.52	0.0065	0.50	104	50 - 150	RPD 3.88 (Max-20)	
Lead, Total	7439-92-1	MS	0.47	0	0.50	94.2	50 - 150		
Lead, Total	7439-92-1	MSD	0.5	0	0.50	99.5	50 - 150	RPD 5.47 (Max-20)	
Selenium, Total	7782-49-2	MS	5.3	0	5	107	50 - 150		
Selenium, Total	7782-49-2	MSD	5.6	0	5	112	50 - 150	RPD 4.97 (Max-20)	
Silver, Total	7440-22-4	MS	0.52	0	0.50	104	50 - 150		
Silver, Total	7440-22-4	MSD	0.53	0	0.50	106	50 - 150	RPD 2.09 (Max-20)	

QC Batch

QC Batch	1348915	Prep Method	SW846 7470A
Date	12/02/2024 10:06	Analysis Method	SW846 7470A
Tech.	AXW		

Associated Samples

3389099003

Matrix Spike 3911993 (MS) 3387872002 (non-Project Sample) For QC Batch 1348915

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911994 (MSD) 3387872002 (non-Project Sample) For QC Batch 1348915

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	MS	0.0047	0.000042	0.0050	94	70 - 130		
Mercury, Total	7439-97-6	MSD	0.0046	0.000042	0.0050	91.8	70 - 130	RPD 2.35 (Max-20)	

Leachate Blank 3909556 (LB) Created on 11/24/2024 08:14 For QC Batch 1348915

QUALITY CONTROL SAMPLES

TCLP EPA 1311 METALS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	.0005	U

Method Blank 3911991 (MB) Created on 12/02/2024 08:10 For QC Batch 1348915

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Mercury, Total	7439-97-6	BLK	ND	mg/L	0.00050	ND

Lab Control Standard 3911992 (LCS) Created on 12/02/2024 08:10 For QC Batch 1348915

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Mercury, Total	7439-97-6	LCS	0.0017		0.0020	85	85 - 115		

QUALITY CONTROL SAMPLES

TCLP EPA 1311 SEMI-VOLATILES

QC Batch

QC Batch	1345189	Prep Method	SW846 3510C
Date	11/26/2024 22:00	Analysis Method	SW846 8270E
Tech.	S7M		

Associated Samples

3389099003 3389099004

Leachate Blank 3909556 (LB) Created on 11/24/2024 08:14 For QC Batch 1345189

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	15	U
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	15	U
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	15	U
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	15	U
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	15	U
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	15	U
Hexachloroethane	67-72-1	BLK	ND	ug/L	15	U
mp-Cresol	108394/106445	BLK	ND	ug/L	15	U
Nitrobenzene	98-95-3	BLK	ND	ug/L	15	U
o-Cresol	95-48-7	BLK	ND	ug/L	15	U
Pentachlorophenol	87-86-5	BLK	ND	ug/L	40	U
Pyridine	110-86-1	BLK	ND	ug/L	15	U

Method Blank 3910856 (MB) Created on 11/27/2024 06:39 For QC Batch 1345189

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	BLK	ND	ug/L	3.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	3.0	ND
1,4-Dioxane	123-91-1	BLK	ND	ug/L	3.0	ND
2,3,4,6-Tetrachlorophenol	58-90-2	BLK	ND	ug/L	3.0	ND
2,4,5-Trichlorophenol	95-95-4	BLK	ND	ug/L	3.0	ND
2,4,6-Trichlorophenol	88-06-2	BLK	ND	ug/L	3.0	ND
2,4-Dichlorophenol	120-83-2	BLK	ND	ug/L	3.0	ND
2,4-Dimethylphenol	105-67-9	BLK	ND	ug/L	3.0	ND
2,4-Dinitrophenol	51-28-5	BLK	ND	ug/L	6.0	ND
2,4-Dinitrotoluene	121-14-2	BLK	ND	ug/L	3.0	ND
2,6-Dinitrotoluene	606-20-2	BLK	ND	ug/L	3.0	ND
2-Chloronaphthalene	91-58-7	BLK	ND	ug/L	3.0	ND
2-Chlorophenol	95-57-8	BLK	ND	ug/L	3.0	ND
2-Methyl-4,6-dinitrophenol	534-52-1	BLK	ND	ug/L	6.0	ND
2-Methylnaphthalene	91-57-6	BLK	ND	ug/L	1.5	ND
2-Nitroaniline	88-74-4	BLK	ND	ug/L	3.0	ND
2-Nitrophenol	88-75-5	BLK	ND	ug/L	3.0	ND
3,3-Dichlorobenzidine	91-94-1	BLK	ND	ug/L	16.0	ND
3-Nitroaniline	99-09-2	BLK	ND	ug/L	3.0	ND
4-Bromophenyl-phenylether	101-55-3	BLK	ND	ug/L	3.0	ND

QUALITY CONTROL SAMPLES

TCLP EPA 1311 SEMI-VOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
4-Chloro-3-methylphenol	59-50-7	BLK	ND	ug/L	3.0	ND
4-Chloroaniline	106-47-8	BLK	ND	ug/L	3.0	ND
4-Chlorophenyl-phenylether	7005-72-3	BLK	ND	ug/L	3.0	ND
4-Nitroaniline	100-01-6	BLK	ND	ug/L	3.0	ND
4-Nitrophenol	100-02-7	BLK	ND	ug/L	3.0	ND
Acenaphthene	83-32-9	BLK	ND	ug/L	1.5	ND
Acenaphthylene	208-96-8	BLK	ND	ug/L	1.5	ND
Acetophenone	98-86-2	BLK	ND	ug/L	3.0	ND
Anthracene	120-12-7	BLK	ND	ug/L	1.5	ND
Atrazine	1912-24-9	BLK	ND	ug/L	3.0	ND
Benzaldehyde	100-52-7	BLK	ND	ug/L	3.0	ND
Benzo(a)anthracene	56-55-3	BLK	ND	ug/L	1.5	ND
Benzo(a)pyrene	50-32-8	BLK	ND	ug/L	1.5	ND
Benzo(b)fluoranthene	205-99-2	BLK	ND	ug/L	1.5	ND
Benzo(g,h,i)perylene	191-24-2	BLK	ND	ug/L	1.5	ND
Benzo(k)fluoranthene	207-08-9	BLK	ND	ug/L	1.5	ND
Biphenyl	92-52-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethoxy)methane	111-91-1	BLK	ND	ug/L	3.0	ND
bis(2-Chloroethyl)ether	111-44-4	BLK	ND	ug/L	3.0	ND
bis(2-Chloroisopropyl)ether	108-60-1	BLK	ND	ug/L	3.0	ND
bis(2-Ethylhexyl)phthalate	117-81-7	BLK	ND	ug/L	3.0	ND
Butylbenzylphthalate	85-68-7	BLK	ND	ug/L	3.0	ND
Caprolactam	105-60-2	BLK	ND	ug/L	3.0	ND
Carbazole	86-74-8	BLK	ND	ug/L	3.0	ND
Chrysene	218-01-9	BLK	ND	ug/L	1.5	ND
Dibenzo(a,h)anthracene	53-70-3	BLK	ND	ug/L	1.5	ND
Dibenzofuran	132-64-9	BLK	ND	ug/L	3.0	ND
Diethylphthalate	84-66-2	BLK	ND	ug/L	3.0	ND
Dimethylphthalate	131-11-3	BLK	ND	ug/L	3.0	ND
Di-n-Butylphthalate	84-74-2	BLK	ND	ug/L	3.0	ND
Di-n-Octylphthalate	117-84-0	BLK	ND	ug/L	3.0	ND
Fluoranthene	206-44-0	BLK	ND	ug/L	1.5	ND
Fluorene	86-73-7	BLK	ND	ug/L	1.5	ND
Hexachlorobenzene	118-74-1	BLK	ND	ug/L	3.0	ND
Hexachlorobutadiene	87-68-3	BLK	ND	ug/L	3.0	ND
Hexachlorocyclopentadiene	77-47-4	BLK	ND	ug/L	3.0	ND
Hexachloroethane	67-72-1	BLK	ND	ug/L	3.0	ND
Indeno(1,2,3-cd)pyrene	193-39-5	BLK	ND	ug/L	1.5	ND
Isophorone	78-59-1	BLK	ND	ug/L	3.0	ND
mp-Cresol	108394/106445	BLK	ND	ug/L	3.0	ND
Naphthalene	91-20-3	BLK	ND	ug/L	1.5	ND
Nitrobenzene	98-95-3	BLK	ND	ug/L	3.0	ND
N-Nitroso-di-n-propylamine	621-64-7	BLK	ND	ug/L	3.0	ND
N-Nitrosodiphenylamine	86-30-6	BLK	ND	ug/L	3.0	ND
o-Cresol	95-48-7	BLK	ND	ug/L	3.0	ND
Pentachlorophenol	87-86-5	BLK	ND	ug/L	8.0	ND
Phenanthrene	85-01-8	BLK	ND	ug/L	1.5	ND
Phenol	108-95-2	BLK	ND	ug/L	8.0	ND

QUALITY CONTROL SAMPLES

TCLP EPA 1311 SEMI-VOLATILES (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Pyrene	129-00-0	BLK	ND	ug/L	1.5	ND
Pyridine	110-86-1	BLK	ND	ug/L	3.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	BLK	94.2	100	94.2	23 - 131	
2-Fluorobiphenyl	321-60-8	BLK	41	50	82	24 - 116	
2-Fluorophenol	367-12-4	BLK	59.4	100	59.4	10 - 85	
Nitrobenzene-d5	4165-60-0	BLK	42.6	50	85.1	32 - 125	
Phenol-d5	4165-62-2	BLK	39.8	100	39.8	7 - 56	
Terphenyl-d14	98904-43-9	BLK	41.6	50	83.3	41 - 145	

Lab Control Standard 3910857 (LCS) Created on 11/27/2024 06:40 For QC Batch 1345189

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,4,5-Tetrachlorobenzene	95-94-3	LCS	30.3		50	60.5	18 - 124		
1,4-Dichlorobenzene	106-46-7	LCS	23.9		50	47.7	5 - 116		
1,4-Dioxane	123-91-1	LCS	26.5		50	53	5 - 129		
2,3,4,6-Tetrachlorophenol	58-90-2	LCS	89.3		100	89.3	36 - 133		
2,4,5-Trichlorophenol	95-95-4	LCS	86.7		100	86.7	44 - 148		
2,4,6-Trichlorophenol	88-06-2	LCS	84		100	84	41 - 148		
2,4-Dichlorophenol	120-83-2	LCS	82.4		100	82.4	44 - 142		
2,4-Dimethylphenol	105-67-9	LCS	83.9		100	83.9	46 - 141		
2,4-Dinitrophenol	51-28-5	LCS	75.9		100	75.9	21 - 140		
2,4-Dinitrotoluene	121-14-2	LCS	52.3		50	105	49 - 138		
2,6-Dinitrotoluene	606-20-2	LCS	49.7		50	99.4	49 - 136		
2-Chloronaphthalene	91-58-7	LCS	34.6		50	69.1	27 - 125		
2-Chlorophenol	95-57-8	LCS	74.8		100	74.8	42 - 137		
2-Methyl-4,6-dinitrophenol	534-52-1	LCS	82.3		100	82.3	46 - 133		
2-Methylnaphthalene	91-57-6	LCS	34.5		50	68.9	22 - 124		
2-Nitroaniline	88-74-4	LCS	47.8		50	95.6	55 - 138		
2-Nitrophenol	88-75-5	LCS	83.4		100	83.4	46 - 140		
3,3-Dichlorobenzidine	91-94-1	LCS	43.3		100	43.3	38 - 115		
3-Nitroaniline	99-09-2	LCS	43.1		50	86.1	60 - 123		
4-Bromophenyl-phenylether	101-55-3	LCS	47.7		50	95.4	46 - 128		
4-Chloro-3-methylphenol	59-50-7	LCS	83.9		100	83.9	46 - 144		
4-Chloroaniline	106-47-8	LCS	30.1		50	60.1	44 - 113		
4-Chlorophenyl-phenylether	7005-72-3	LCS	46.7		50	93.5	38 - 128		
4-Nitroaniline	100-01-6	LCS	45		50	90.1	53 - 124		
4-Nitrophenol	100-02-7	LCS	39.3		100	39.3	5 - 108		
Acenaphthene	83-32-9	LCS	39.6		50	79.1	36 - 130		
Acenaphthylene	208-96-8	LCS	34.7		50	69.3	39 - 130		
Acetophenone	98-86-2	LCS	36.7		50	73.3	49 - 117		

QUALITY CONTROL SAMPLES

TCLP EPA 1311 SEMI-VOLATILES (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Anthracene	120-12-7	LCS	46.8		50	93.5	48 - 133		
Atrazine	1912-24-9	LCS	51.6		50	103	44 - 149		
Benzaldehyde	100-52-7	LCS	43.2		50	86.4	38 - 145		
Benzo(a)anthracene	56-55-3	LCS	45.6		50	91.3	51 - 127		
Benzo(a)pyrene	50-32-8	LCS	45.7		50	91.5	53 - 127		
Benzo(b)fluoranthene	205-99-2	LCS	48.2		50	96.4	53 - 131		
Benzo(g,h,i)perylene	191-24-2	LCS	44.8		50	89.6	54 - 131		
Benzo(k)fluoranthene	207-08-9	LCS	48.2		50	96.4	52 - 130		
Biphenyl	92-52-4	LCS	33.8		50	67.5	30 - 132		
bis(2-Chloroethoxy)methane	111-91-1	LCS	44.2		50	88.4	43 - 132		
bis(2-Chloroethyl)ether	111-44-4	LCS	40.6		50	81.2	41 - 128		
bis(2-Chloroisopropyl)ether	108-60-1	LCS	34.9		50	69.8	32 - 128		
bis(2-Ethylhexyl)phthalate	117-81-7	LCS	44.9		50	89.7	41 - 145		
Butylbenzylphthalate	85-68-7	LCS	47.6		50	95.3	50 - 137		
Caprolactam	105-60-2	LCS	18.3		50	36.7	5 - 118		
Carbazole	86-74-8	LCS	45.1		50	90.1	52 - 139		
Chrysene	218-01-9	LCS	47		50	93.9	50 - 131		
Dibenzo(a,h)anthracene	53-70-3	LCS	48		50	96	56 - 130		
Dibenzofuran	132-64-9	LCS	41.4		50	82.7	39 - 133		
Diethylphthalate	84-66-2	LCS	50.7		50	101	45 - 132		
Dimethylphthalate	131-11-3	LCS	47.9		50	95.9	44 - 131		
Di-n-Butylphthalate	84-74-2	LCS	47.7		50	95.4	47 - 135		
Di-n-Octylphthalate	117-84-0	LCS	48.9		50	97.8	35 - 141		
Fluoranthene	206-44-0	LCS	48.2		50	96.5	49 - 132		
Fluorene	86-73-7	LCS	45.3		50	90.6	42 - 131		
Hexachlorobenzene	118-74-1	LCS	47.7		50	95.3	59 - 109		
Hexachlorobutadiene	87-68-3	LCS	25.9		50	51.8	5 - 126		
Hexachlorocyclopentadiene	77-47-4	LCS	11.4		50	22.8	5 - 97		
Hexachloroethane	67-72-1	LCS	18.8		50	37.6	5 - 111		
Indeno(1,2,3-cd)pyrene	193-39-5	LCS	44.6		50	89.1	55 - 126		
Isophorone	78-59-1	LCS	41.4		50	82.7	45 - 129		
mp-Cresol	108394/106445	LCS	72.1		100	72.1	28 - 128		
Naphthalene	91-20-3	LCS	31.4		50	62.7	21 - 123		
Nitrobenzene	98-95-3	LCS	37.4		50	74.7	41 - 128		
N-Nitroso-di-n-propylamine	621-64-7	LCS	40.5		50	81	46 - 133		
N-Nitrosodiphenylamine	86-30-6	LCS	55.6		50	111	58 - 125		
o-Cresol	95-48-7	LCS	68.4		100	68.4	34 - 136		
Pentachlorophenol	87-86-5	LCS	86.7		100	86.7	41 - 149		
Phenanthrene	85-01-8	LCS	45.5		50	91	46 - 131		
Phenol	108-95-2	LCS	40.4		100	40.4	5 - 111		
Pyrene	129-00-0	LCS	44		50	87.9	48 - 134		
Pyridine	110-86-1	LCS	22.8		50	45.5	5 - 115		

QUALITY CONTROL SAMPLES

TCLP EPA 1311 SEMI-VOLATILES (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2,4,6-Tribromophenol	118-79-6	LCS	96.7	100	96.7	23 - 131	
2-Fluorobiphenyl	321-60-8	LCS	41.6	50	83.2	24 - 116	
2-Fluorophenol	367-12-4	LCS	54.1	100	54.1	10 - 85	
Nitrobenzene-d5	4165-60-0	LCS	41.6	50	83.3	32 - 125	
Phenol-d5	4165-62-2	LCS	39	100	39	7 - 56	
Terphenyl-d14	98904-43-9	LCS	43.9	50	87.7	41 - 145	

QUALITY CONTROL SAMPLES

TCLP EPA 1311 VOLATILE ORGANIC

QC Batch

QC Batch	1348205	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3389099003

Leachate Blank 3910320 (LB) Created on 11/26/2024 08:31 For QC Batch 1348205

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	20	U
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	20	U
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	20	U
2-Butanone	78-93-3	BLK	ND	ug/L	200	U
Benzene	71-43-2	BLK	ND	ug/L	20	U
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	20	U
Chlorobenzene	108-90-7	BLK	ND	ug/L	20	U
Chloroform	67-66-3	BLK	ND	ug/L	20	U
Tetrachloroethene	127-18-4	BLK	ND	ug/L	20	U
Trichloroethene	79-01-6	BLK	ND	ug/L	20	U
Vinyl Chloride	75-01-4	BLK	ND	ug/L	20	U

Method Blank 3911676 (MB) Created on 11/30/2024 11:12 For QC Batch 1348205

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.7	30	99	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.7	30	98.8	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.8	30	95.9	78 - 116	
Toluene-d8	2037-26-5	BLK	30	30	99.9	76 - 127	

QUALITY CONTROL SAMPLES

TCLP EPA 1311 VOLATILE ORGANIC (cont.)

Lab Control Standard 3911677 (LCS) Created on 11/30/2024 11:12 For QC Batch 1348205

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1-Dichloroethene	75-35-4	LCS	19.8		20	98.9	63 - 128		
1,2-Dichloroethane	107-06-2	LCS	19.1		20	95.6	70 - 133		
2-Butanone	78-93-3	LCS	95.9		100	95.9	50 - 152		
Benzene	71-43-2	LCS	19.2		20	96	80 - 124		
Carbon Tetrachloride	56-23-5	LCS	18.1		20	90.5	62 - 132		
Chlorobenzene	108-90-7	LCS	18.8		20	94.2	85 - 117		
Chloroform	67-66-3	LCS	19.5		20	97.3	78 - 122		
Tetrachloroethene	127-18-4	LCS	16.4		20	81.8	72 - 124		
Trichloroethene	79-01-6	LCS	18.5		20	92.3	77 - 124		
Vinyl Chloride	75-01-4	LCS	18.7		20	93.6	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	30.3	30	101	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	28.3	30	94.4	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	28	30	93.4	78 - 116	
Toluene-d8	2037-26-5	LCS	28	30	93.3	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1345806	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3389099004

Matrix Spike 3911315 (MS) 3388588011 (non-Project Sample) For QC Batch 1345806

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911316 (MSD) 3388588011 (non-Project Sample) For QC Batch 1345806

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	24.5	0	20	122	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	23.8	0	20	119	66 - 130	RPD 2.60 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	26.7	0	20	133	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	25.5	0	20	128	74 - 135	RPD 4.33 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	25	0	20	125	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	22.9	0	20	115	82 - 126	RPD 8.55 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	23.5	0	20	118	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	22.6	0	20	113	78 - 124	RPD 4.16 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	24.6	0	20	123	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	24.1	0	20	120	63 - 128	RPD 1.98 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	24.4	0	20	122	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	23.1	0	20	115	61 - 126	RPD 5.63 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	25.7	0	20	128	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	24.5	0	20	122	75 - 132	RPD 4.76 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	25.7	0	20	128*	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	24.8	0	20	124*	67 - 123	RPD 3.70 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	25.2	0	20	126*	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	23.7	0	20	118	76 - 125	RPD 6.11 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	25.7	0	20	128	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	24.6	0	20	123	59 - 133	RPD 4.17 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	25.4	0	20	127*	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	23.7	0	20	118	80 - 124	RPD 6.86 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	23.6	0	20	118	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	22.5	0	20	113	82 - 118	RPD 4.45 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	22.4	0	20	112	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	21.5	0	20	107	70 - 133	RPD 3.92 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	23.7	0	20	118	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	22.7	0	20	114	81 - 127	RPD 4.04 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	25.5	0	20	127*	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	23.9	0	20	120	76 - 125	RPD 6.24 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	23.2	0	20	116	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	22.1	0	20	111	81 - 118	RPD 4.68 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	23.2	0	20	116	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	22.1	0	20	111	81 - 116	RPD 4.96 (Max-15)	
2-Butanone	78-93-3	MS	123	0	100	123	50 - 152		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Butanone	78-93-3	MSD	114	0	100	114	50 - 152	RPD 7.37 (Max-16)	
2-Hexanone	591-78-6	MS	131	0	100	131	65 - 154		
2-Hexanone	591-78-6	MSD	122	0	100	122	65 - 154	RPD 7.75 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	134	0	100	134	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	124	0	100	124	71 - 146	RPD 7.39 (Max-16)	
Acetone	67-64-1	MS	112	0	100	112	40 - 151		
Acetone	67-64-1	MSD	108	0	100	108	40 - 151	RPD 3.78 (Max-40)	
Bromochloromethane	74-97-5	MS	23.4	0	20	117	73 - 117		
Bromochloromethane	74-97-5	MSD	22.5	0	20	113	73 - 117	RPD 3.88 (Max-19)	
Bromodichloromethane	75-27-4	MS	24.4	0	20	122	79 - 126		
Bromodichloromethane	75-27-4	MSD	23.9	0	20	119	79 - 126	RPD 2.08 (Max-16)	
Bromoform	75-25-2	MS	23.3	0	20	117	70 - 123		
Bromoform	75-25-2	MSD	22.1	0	20	111	70 - 123	RPD 5.28 (Max-16)	
Bromomethane	74-83-9	MS	16.1	0	20	80.5	45 - 148		
Bromomethane	74-83-9	MSD	15.9	0	20	79.5	45 - 148	RPD 1.33 (Max-26)	
Carbon Disulfide	75-15-0	MS	23.6	0	20	118	57 - 131		
Carbon Disulfide	75-15-0	MSD	23.1	0	20	116	57 - 131	RPD 1.79 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	21.8	0	20	109	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	20.1	0	20	100	62 - 132	RPD 8.22 (Max-17)	
Chlorobenzene	108-90-7	MS	23.3	0	20	116	85 - 117		
Chlorobenzene	108-90-7	MSD	21.4	0	20	107	85 - 117	RPD 8.42 (Max-15)	
Chlorodibromomethane	124-48-1	MS	21.4	0	20	107	77 - 122		
Chlorodibromomethane	124-48-1	MSD	20.2	0	20	101	77 - 122	RPD 6.16 (Max-15)	
Chloroethane	75-00-3	MS	23.1	0	20	116	51 - 142		
Chloroethane	75-00-3	MSD	23.7	0	20	119	51 - 142	RPD 2.50 (Max-24)	
Chloroform	67-66-3	MS	22.4	0	20	112	78 - 122		
Chloroform	67-66-3	MSD	21.7	0	20	108	78 - 122	RPD 3.45 (Max-16)	
Chloromethane	74-87-3	MS	22.4	0	20	112	38 - 156		
Chloromethane	74-87-3	MSD	21.9	0	20	109	38 - 156	RPD 2.21 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	24.8	0.74	20	120	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	23.9	0.74	20	116	78 - 125	RPD 3.81 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	21.6	0	20	108	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	20	0	20	100	81 - 121	RPD 7.81 (Max-16)	
Cyclohexane	110-82-7	MS	25.1	0	20	126	66 - 130		
Cyclohexane	110-82-7	MSD	24.3	0	20	121	66 - 130	RPD 3.50 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	23.2	0	20	116	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	22.4	0	20	112	17 - 166	RPD 3.68 (Max-24)	
Ethylbenzene	100-41-4	MS	24.1	0	20	121	80 - 124		
Ethylbenzene	100-41-4	MSD	22.4	0	20	112	80 - 124	RPD 7.36 (Max-19)	
Freon 113	76-13-1	MS	25.7	0	20	129	50 - 130		
Freon 113	76-13-1	MSD	24.7	0	20	124	50 - 130	RPD 4.06 (Max-26)	
Isopropylbenzene	98-82-8	MS	27.6	0	20	138*	73 - 129		
Isopropylbenzene	98-82-8	MSD	26.2	0	20	131*	73 - 129	RPD 4.98 (Max-18)	
Methyl acetate	79-20-9	MS	23.2	0	20	116	70 - 130		
Methyl acetate	79-20-9	MSD	21.8	0	20	109	70 - 130	RPD 6.20 (Max-18)	
Methyl cyclohexane	108-87-2	MS	25.5	0	20	128	70 - 130		
Methyl cyclohexane	108-87-2	MSD	23.8	0	20	119	70 - 130	RPD 7.04 (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	24.2	0	20	121*	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	23.6	0	20	118*	69 - 115	RPD 2.73 (Max-20)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methylene Chloride	75-09-2	MS	23.5	0	20	118	76 - 121		
Methylene Chloride	75-09-2	MSD	22.5	0	20	112	76 - 121	RPD 4.55 (Max-17)	
mp-Xylene	108383/106423	MS	48	0	40	120	79 - 125		
mp-Xylene	108383/106423	MSD	44.5	0	40	111	79 - 125	RPD 7.64 (Max-21)	
o-Xylene	95-47-6	MS	23.9	0	20	119	79 - 124		
o-Xylene	95-47-6	MSD	22.3	0	20	112	79 - 124	RPD 6.61 (Max-19)	
Styrene	100-42-5	MS	21.4	0	20	107	79 - 123		
Styrene	100-42-5	MSD	20.3	0	20	101	79 - 123	RPD 5.44 (Max-16)	
Tetrachloroethene	127-18-4	MS	22.2	0	20	111	72 - 124		
Tetrachloroethene	127-18-4	MSD	20.6	0	20	103	72 - 124	RPD 7.53 (Max-38)	
Toluene	108-88-3	MS	24.4	0.29	20	120	80 - 125		
Toluene	108-88-3	MSD	22.5	0.29	20	111	80 - 125	RPD 8.04 (Max-20)	
Total Xylenes	1330-20-7	MS	71.9	0	60	120	79 - 125		
Total Xylenes	1330-20-7	MSD	66.8	0	60	111	79 - 125	RPD 7.30 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	23.9	0	20	119	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	22.6	0	20	113	71 - 122	RPD 5.33 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.9	0	20	109	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	20.2	0	20	101	78 - 126	RPD 8.05 (Max-18)	
Trichloroethene	79-01-6	MS	22.8	0	20	114	77 - 124		
Trichloroethene	79-01-6	MSD	21.9	0	20	110	77 - 124	RPD 3.97 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	25.2	0	20	126*	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	24.3	0	20	122	38 - 123	RPD 3.71 (Max-23)	
Vinyl Chloride	75-01-4	MS	25.6	0	20	128	27 - 138		
Vinyl Chloride	75-01-4	MSD	24.4	0	20	122	27 - 138	RPD 5.14 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	30.6	30	102	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	30	30	99.8	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	29.6	30	98.5	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	30.4	30	101	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.7	30	102	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	29.6	30	98.5	78 - 116	
Toluene-d8	2037-26-5	MS	30.7	30	102	76 - 127	
Toluene-d8	2037-26-5	MSD	29.7	30	98.9	76 - 127	

Method Blank 3911023 (MB) Created on 11/27/2024 10:07 For QC Batch 1345806

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32.1	30	107	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	31	30	103	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	30.8	30	103	78 - 116	
Toluene-d8	2037-26-5	BLK	32.6	30	109	76 - 127	

Lab Control Standard 3911024 (LCS) Created on 11/27/2024 10:07 For QC Batch 1345806

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	21.6		20	108	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	23		20	115	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	22.1		20	111	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.8		20	104	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.7		20	108	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.2		20	111	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	22.7		20	113	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.6		20	118	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22		20	110	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	22.7		20	114	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	21.8		20	109	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.4		20	107	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.1		20	101	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21.1		20	105	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.3		20	111	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.8		20	104	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.8		20	104	81 - 116		
2-Butanone	78-93-3	LCS	128		100	128	50 - 152		
2-Hexanone	591-78-6	LCS	120		100	120	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	113		100	113	71 - 146		
Acetone	67-64-1	LCS	143		100	143	40 - 151		
Bromochloromethane	74-97-5	LCS	21.9		20	109	73 - 117		
Bromodichloromethane	75-27-4	LCS	22.4		20	112	79 - 126		
Bromoform	75-25-2	LCS	21.1		20	106	70 - 123		
Bromomethane	74-83-9	LCS	14.9		20	74.7	45 - 148		
Carbon Disulfide	75-15-0	LCS	21.4		20	107	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	19.5		20	97.6	62 - 132		
Chlorobenzene	108-90-7	LCS	20.4		20	102	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.3		20	96.6	77 - 122		
Chloroethane	75-00-3	LCS	20		20	100	51 - 142		
Chloroform	67-66-3	LCS	20.1		20	101	78 - 122		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloromethane	74-87-3	LCS	20.5		20	102	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21.4		20	107	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.4		20	97	81 - 121		
Cyclohexane	110-82-7	LCS	22		20	110	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	20.7		20	104	17 - 166		
Ethylbenzene	100-41-4	LCS	21.1		20	105	80 - 124		
Freon 113	76-13-1	LCS	22.2		20	111	50 - 130		
Isopropylbenzene	98-82-8	LCS	24.5		20	123	73 - 129		
Methyl acetate	79-20-9	LCS	22.9		20	114	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22.1		20	111	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	22.3		20	111	69 - 115		
Methylene Chloride	75-09-2	LCS	21.1		20	106	76 - 121		
mp-Xylene	108383/106423	LCS	42		40	105	79 - 125		
o-Xylene	95-47-6	LCS	21		20	105	79 - 124		
Styrene	100-42-5	LCS	19.3		20	96.7	79 - 123		
Tetrachloroethene	127-18-4	LCS	20.6		20	103	72 - 124		
Toluene	108-88-3	LCS	21.1		20	106	80 - 125		
Total Xylenes	1330-20-7	LCS	63		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21		20	105	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.5		20	97.4	78 - 126		
Trichloroethene	79-01-6	LCS	19.9		20	99.5	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21.8		20	109	38 - 123		
Vinyl Chloride	75-01-4	LCS	22.6		20	113	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.5	30	98.3	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.2	30	97.2	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30	30	100	78 - 116	
Toluene-d8	2037-26-5	LCS	29.9	30	99.7	76 - 127	

QC Batch

QC Batch	1348188	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3389099004

Matrix Spike 3911634 (MS) 3388860010 (non-Project Sample) For QC Batch 1348188

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3911635 (MSD) 3388860010 (non-Project Sample) For QC Batch 1348188

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	110	0	100	110	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	116	0	100	116	66 - 130	RPD 5.31 (Max-20)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	103	0	100	103	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	109	0	100	109	74 - 135	RPD 4.74 (Max-16)	
1,1,2-Trichloroethane	79-00-5	MS	98.7	0	100	98.7	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	104	0	100	104	82 - 126	RPD 5.31 (Max-15)	
1,1-Dichloroethane	75-34-3	MS	109	0	100	109	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	110	0	100	110	78 - 124	RPD 1.26 (Max-15)	
1,1-Dichloroethene	75-35-4	MS	121	0	100	121	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	122	0	100	122	63 - 128	RPD 0.42 (Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	110	0	100	110	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	120	0	100	120	61 - 126	RPD 8.71 (Max-36)	
1,2,3-Trichloropropane	96-18-4	MS	128	0	100	128	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	131	0	100	131	75 - 132	RPD 2.27 (Max-19)	
1,2,4-Trichlorobenzene	120-82-1	MS	118	0	100	118	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	125	0	100	125*	67 - 123	RPD 5.85 (Max-22)	
1,2,4-Trimethylbenzene	95-63-6	MS	235	125	100	110	76 - 125		
1,2,4-Trimethylbenzene	95-63-6	MSD	250	125	100	124	76 - 125	RPD 6.04 (Max-24)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	112	0	100	112	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	119	0	100	119	59 - 133	RPD 6.15 (Max-26)	
1,2-Dibromoethane	106-93-4	MS	99.4	0	100	99.4	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	103	0	100	103	80 - 124	RPD 3.64 (Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	105	0	100	105	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	111	0	100	111	82 - 118	RPD 5.36 (Max-15)	
1,2-Dichloroethane	107-06-2	MS	97.9	0	100	97.9	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	103	0	100	103	70 - 133	RPD 5.20 (Max-19)	
1,2-Dichloropropane	78-87-5	MS	104	0	100	104	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	108	0	100	108	81 - 127	RPD 3.61 (Max-15)	
1,3,5-Trimethylbenzene	108-67-8	MS	155	39.50	100	116	76 - 125		
1,3,5-Trimethylbenzene	108-67-8	MSD	164	39.50	100	124	76 - 125	RPD 5.24 (Max-18)	
1,3-Dichlorobenzene	541-73-1	MS	109	0	100	109	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	114	0	100	114	81 - 118	RPD 4.95 (Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	106	0	100	106	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	112	0	100	112	81 - 116	RPD 5.19 (Max-15)	
2-Butanone	78-93-3	MS	424	0	500	84.7	50 - 152		
2-Butanone	78-93-3	MSD	434	0	500	86.8	50 - 152	RPD 2.43 (Max-16)	
2-Hexanone	591-78-6	MS	422	0	500	84.4	65 - 154		
2-Hexanone	591-78-6	MSD	455	0	500	91.1	65 - 154	RPD 7.66 (Max-17)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	422	0	500	84.5	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	459	0	500	91.7	71 - 146	RPD 8.23 (Max-16)	
Acetone	67-64-1	MS	394	19.70	500	74.9	40 - 151		
Acetone	67-64-1	MSD	404	19.70	500	76.8	40 - 151	RPD 2.36 (Max-40)	
Benzene	71-43-2	MS	133	31.10	100	102	80 - 124		
Benzene	71-43-2	MSD	139	31.10	100	108	80 - 124	RPD 4.25 (Max-26)	
Bromochloromethane	74-97-5	MS	102	0	100	102	73 - 117		
Bromochloromethane	74-97-5	MSD	110	0	100	110	73 - 117	RPD 7.34 (Max-19)	
Bromodichloromethane	75-27-4	MS	106	0	100	106	79 - 126		
Bromodichloromethane	75-27-4	MSD	113	0	100	113	79 - 126	RPD 6 (Max-16)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromoform	75-25-2	MS	79	0	100	79	70 - 123		
Bromoform	75-25-2	MSD	87.1	0	100	87.1	70 - 123	RPD 9.78 (Max-16)	
Bromomethane	74-83-9	MS	69.4	0	100	69.4	45 - 148		
Bromomethane	74-83-9	MSD	80.6	0	100	80.6	45 - 148	RPD 14.90 (Max-26)	
Carbon Disulfide	75-15-0	MS	112	0	100	112	57 - 131		
Carbon Disulfide	75-15-0	MSD	112	0	100	112	57 - 131	RPD 0.76 (Max-28)	
Carbon Tetrachloride	56-23-5	MS	104	0	100	104	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	110	0	100	110	62 - 132	RPD 6.33 (Max-17)	
Chlorobenzene	108-90-7	MS	97.9	0	100	97.9	85 - 117		
Chlorobenzene	108-90-7	MSD	106	0	100	106	85 - 117	RPD 7.52 (Max-15)	
Chlorodibromomethane	124-48-1	MS	114	0	100	114	77 - 122		
Chlorodibromomethane	124-48-1	MSD	103	0	100	103	77 - 122	RPD 9.86 (Max-15)	
Chloroethane	75-00-3	MS	97.6	0	100	97.6	51 - 142		
Chloroethane	75-00-3	MSD	103	0	100	103	51 - 142	RPD 5.43 (Max-24)	
Chloroform	67-66-3	MS	106	0	100	106	78 - 122		
Chloroform	67-66-3	MSD	110	0	100	110	78 - 122	RPD 2.94 (Max-16)	
Chloromethane	74-87-3	MS	103	0	100	103	38 - 156		
Chloromethane	74-87-3	MSD	101	0	100	101	38 - 156	RPD 2.28 (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	110	0	100	110	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	114	0	100	114	78 - 125	RPD 3 (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	99.2	0	100	99.2	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	107	0	100	107	81 - 121	RPD 7.95 (Max-16)	
Cyclohexane	110-82-7	MS	114	0	100	114	66 - 130		
Cyclohexane	110-82-7	MSD	117	0	100	117	66 - 130	RPD 3.14 (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	97	0	100	97	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	94.6	0	100	94.6	17 - 166	RPD 2.43 (Max-24)	
Ethylbenzene	100-41-4	MS	108	0	100	108	80 - 124		
Ethylbenzene	100-41-4	MSD	115	0	100	115	80 - 124	RPD 6.14 (Max-19)	
Freon 113	76-13-1	MS	117	0	100	117	50 - 130		
Freon 113	76-13-1	MSD	116	0	100	116	50 - 130	RPD 1.16 (Max-26)	
Isopropylbenzene	98-82-8	MS	151	14.80	100	136*	73 - 129		
Isopropylbenzene	98-82-8	MSD	155	14.80	100	140*	73 - 129	RPD 2.60 (Max-18)	
Methyl acetate	79-20-9	MS	89.5	1.80	100	87.8	70 - 130		
Methyl acetate	79-20-9	MSD	93.2	1.80	100	91.4	70 - 130	RPD 3.98 (Max-18)	
Methyl cyclohexane	108-87-2	MS	110	0	100	110	70 - 130		
Methyl cyclohexane	108-87-2	MSD	118	0	100	118	70 - 130	RPD 6.22 (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	107	0	100	107	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	110	0	100	110	69 - 115	RPD 2.09 (Max-20)	
Methylene Chloride	75-09-2	MS	108	0	100	108	76 - 121		
Methylene Chloride	75-09-2	MSD	110	0	100	110	76 - 121	RPD 1.31 (Max-17)	
mp-Xylene	108383/106423	MS	334	133	200	100	79 - 125		
mp-Xylene	108383/106423	MSD	359	133	200	113	79 - 125	RPD 7.22 (Max-21)	
o-Xylene	95-47-6	MS	197	101	100	96.1	79 - 124		
o-Xylene	95-47-6	MSD	215	101	100	114	79 - 124	RPD 8.56 (Max-19)	
Styrene	100-42-5	MS	281	158	100	123	79 - 123		
Styrene	100-42-5	MSD	300	158	100	142*	79 - 123	RPD 6.51 (Max-16)	
Tetrachloroethene	127-18-4	MS	91.9	9.80	100	82.2	72 - 124		
Tetrachloroethene	127-18-4	MSD	101	9.80	100	91.3	72 - 124	RPD 9.47 (Max-38)	
Toluene	108-88-3	MS	126	25.10	100	101	80 - 125		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Toluene	108-88-3	MSD	137	25.10	100	112	80 - 125	RPD 8.47 (Max-20)	
Total Xylenes	1330-20-7	MS	531	234	300	98.9	79 - 125		
Total Xylenes	1330-20-7	MSD	574	234	300	113	79 - 125	RPD 7.72 (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	113	0	100	113	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	116	0	100	116	71 - 122	RPD 2.78 (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	86.5	0	100	86.5	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	93.5	0	100	93.5	78 - 126	RPD 7.74 (Max-18)	
Trichloroethene	79-01-6	MS	135	37	100	98.1	77 - 124		
Trichloroethene	79-01-6	MSD	141	37	100	104	77 - 124	RPD 3.94 (Max-18)	
Trichlorofluoromethane	75-69-4	MS	114	0	100	114	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	113	0	100	113	38 - 123	RPD 1.35 (Max-23)	
Vinyl Chloride	75-01-4	MS	110	0	100	110	27 - 138		
Vinyl Chloride	75-01-4	MSD	110	0	100	110	27 - 138	RPD 0.16 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	152	150	101	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	153	150	102	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	150	150	99.7	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	150	150	100	79 - 114	
Dibromofluoromethane	1868-53-7	MS	147	150	98.2	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	146	150	97.3	78 - 116	
Toluene-d8	2037-26-5	MS	144	150	96	76 - 127	
Toluene-d8	2037-26-5	MSD	148	150	98.7	76 - 127	

Method Blank 3911632 (MB) Created on 11/29/2024 22:41 For QC Batch 1348188

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/L	2.0	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/L	2.0	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/L	1.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND	ug/L	1.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/L	1.0	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND	ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND	ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/L	5.0	ND
Acetone	67-64-1	BLK	ND	ug/L	10.0	ND
Benzene	71-43-2	BLK	ND	ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND	ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND	ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND	ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND	ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND	ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND	ug/L	1.0	ND
Styrene	100-42-5	BLK	ND	ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/L	1.0	ND
Toluene	108-88-3	BLK	ND	ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/L	1.0	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30	30	99.9	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.7	30	99	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.6	30	95.2	78 - 116	
Toluene-d8	2037-26-5	BLK	30.1	30	100	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Lab Control Standard 3911633 (LCS) Created on 11/29/2024 22:41 For QC Batch 1348188

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	20.6		20	103	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21		20	105	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	19.9		20	99.6	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.2		20	101	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.2		20	106	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	20.2		20	101	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	19.2		20	96.1	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	22.5		20	113	67 - 123		
1,2,4-Trimethylbenzene	95-63-6	LCS	22.5		20	112	76 - 125		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.3		20	102	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	18.3		20	91.5	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.4		20	102	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.8		20	98.8	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.3		20	102	81 - 127		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.2		20	111	76 - 125		
1,3-Dichlorobenzene	541-73-1	LCS	20.6		20	103	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	20.7		20	104	81 - 116		
2-Butanone	78-93-3	LCS	99.1		100	99.1	50 - 152		
2-Hexanone	591-78-6	LCS	103		100	103	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	93.4		100	93.4	71 - 146		
Acetone	67-64-1	LCS	108		100	108	40 - 151		
Benzene	71-43-2	LCS	20		20	99.8	80 - 124		
Bromochloromethane	74-97-5	LCS	20		20	100	73 - 117		
Bromodichloromethane	75-27-4	LCS	21.2		20	106	79 - 126		
Bromoform	75-25-2	LCS	15.8		20	79	70 - 123		
Bromomethane	74-83-9	LCS	20		20	100	45 - 148		
Carbon Disulfide	75-15-0	LCS	20		20	99.8	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	18.4		20	92	62 - 132		
Chlorobenzene	108-90-7	LCS	19.4		20	96.8	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.1		20	95.4	77 - 122		
Chloroethane	75-00-3	LCS	24.2		20	121	51 - 142		
Chloroform	67-66-3	LCS	20.2		20	101	78 - 122		
Chloromethane	74-87-3	LCS	22.6		20	113	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21		20	105	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.2		20	101	81 - 121		
Cyclohexane	110-82-7	LCS	20.8		20	104	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	22.1		20	111	17 - 166		
Ethylbenzene	100-41-4	LCS	19.7		20	98.6	80 - 124		
Freon 113	76-13-1	LCS	20.4		20	102	50 - 130		
Isopropylbenzene	98-82-8	LCS	24.3		20	122	73 - 129		
Methyl acetate	79-20-9	LCS	18		20	90	70 - 130		
Methyl cyclohexane	108-87-2	LCS	21.6		20	108	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.1		20	101	69 - 115		
Methylene Chloride	75-09-2	LCS	19.3		20	96.6	76 - 121		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
mp-Xylene	108383/106423	LCS	40.1		40	100	79 - 125		
o-Xylene	95-47-6	LCS	19.5		20	97.7	79 - 124		
Styrene	100-42-5	LCS	22.1		20	111	79 - 123		
Tetrachloroethene	127-18-4	LCS	16.8		20	84	72 - 124		
Toluene	108-88-3	LCS	19.9		20	99.4	80 - 125		
Total Xylenes	1330-20-7	LCS	59.7		60	99.5	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.1		20	105	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	17.9		20	89.3	78 - 126		
Trichloroethene	79-01-6	LCS	19.4		20	96.9	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	22.4		20	112	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.5		20	108	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.8	30	99.3	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	28.2	30	93.9	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	28.4	30	94.8	78 - 116	
Toluene-d8	2037-26-5	LCS	28.9	30	96.3	76 - 127	

QC Batch

QC Batch	1350876	Prep Method	SW846 5035A
Date	12/04/2024 13:24	Analysis Method	SW846 8260D
Tech.	JTH		

Associated Samples

3389099003

Method Blank 3913452 (MB) Created on 12/04/2024 13:24 For QC Batch 1350876

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND	ug/kg	50.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND	ug/kg	50.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND	ug/kg	50.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND	ug/kg	50.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND	ug/kg	100	ND
1,2,3-Trichloropropane	96-18-4	BLK	ND	ug/kg	100	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND	ug/kg	100	ND
1,2,4-Trimethylbenzene	95-63-6	BLK	ND	ug/kg	50.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND	ug/kg	350	ND
1,2-Dibromoethane	106-93-4	BLK	ND	ug/kg	50.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND	ug/kg	50.0	ND
1,2-Dichloroethene, Total	540-59-0	BLK	ND	ug/kg	100	ND

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dichloropropane	78-87-5	BLK	ND	ug/kg	50.0	ND
1,3,5-Trimethylbenzene	108-67-8	BLK	ND	ug/kg	50.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND	ug/kg	50.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND	ug/kg	50.0	ND
2-Butanone	78-93-3	BLK	ND	ug/kg	500	ND
2-Hexanone	591-78-6	BLK	ND	ug/kg	250	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND	ug/kg	250	ND
Acetone	67-64-1	BLK	ND	ug/kg	500	ND
Benzene	71-43-2	BLK	ND	ug/kg	50.0	ND
Bromochloromethane	74-97-5	BLK	ND	ug/kg	50.0	ND
Bromodichloromethane	75-27-4	BLK	ND	ug/kg	50.0	ND
Bromoform	75-25-2	BLK	ND	ug/kg	50.0	ND
Bromomethane	74-83-9	BLK	ND	ug/kg	50.0	ND
Carbon Disulfide	75-15-0	BLK	ND	ug/kg	50.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND	ug/kg	50.0	ND
Chlorobenzene	108-90-7	BLK	ND	ug/kg	50.0	ND
Chlorodibromomethane	124-48-1	BLK	ND	ug/kg	50.0	ND
Chloroethane	75-00-3	BLK	ND	ug/kg	50.0	ND
Chloroform	67-66-3	BLK	ND	ug/kg	50.0	ND
Chloromethane	74-87-3	BLK	ND	ug/kg	50.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND	ug/kg	50.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND	ug/kg	50.0	ND
Cyclohexane	110-82-7	BLK	ND	ug/kg	50.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND	ug/kg	50.0	ND
Ethylbenzene	100-41-4	BLK	ND	ug/kg	50.0	ND
Freon 113	76-13-1	BLK	ND	ug/kg	50.0	ND
Isopropylbenzene	98-82-8	BLK	ND	ug/kg	50.0	ND
Methyl acetate	79-20-9	BLK	ND	ug/kg	100	ND
Methyl cyclohexane	108-87-2	BLK	ND	ug/kg	50.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND	ug/kg	50.0	ND
Methylene Chloride	75-09-2	BLK	ND	ug/kg	50.0	ND
mp-Xylene	108383/106423	BLK	ND	ug/kg	100	ND
o-Xylene	95-47-6	BLK	ND	ug/kg	50.0	ND
Styrene	100-42-5	BLK	ND	ug/kg	50.0	ND
Tetrachloroethene	127-18-4	BLK	ND	ug/kg	50.0	ND
Toluene	108-88-3	BLK	ND	ug/kg	50.0	ND
Total Xylenes	1330-20-7	BLK	ND	ug/kg	150	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND	ug/kg	50.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND	ug/kg	50.0	ND
Trichloroethene	79-01-6	BLK	ND	ug/kg	50.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND	ug/kg	50.0	ND
Vinyl Chloride	75-01-4	BLK	ND	ug/kg	50.0	ND

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	1510	1500	100	71 - 146	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
4-Bromofluorobenzene	460-00-4	BLK	1470	1500	98	46 - 138	
Dibromofluoromethane	1868-53-7	BLK	1380	1500	92.2	42 - 143	
Toluene-d8	2037-26-5	BLK	1490	1500	99.1	54 - 141	

Lab Control Standard 3913453 (LCS) Created on 12/04/2024 13:24 For QC Batch 1350876

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	974		1000	97.4	69 - 136		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	1070		1000	107	69 - 125		
1,1,2-Trichloroethane	79-00-5	LCS	1030		1000	103	70 - 128		
1,1-Dichloroethane	75-34-3	LCS	931		1000	93.1	68 - 137		
1,1-Dichloroethene	75-35-4	LCS	880		1000	88	62 - 135		
1,2,3-Trichlorobenzene	87-61-6	LCS	1020		1000	102	41 - 143		
1,2,3-Trichloropropane	96-18-4	LCS	1030		1000	103	63 - 133		
1,2,4-Trichlorobenzene	120-82-1	LCS	1110		1000	111	61 - 134		
1,2,4-Trimethylbenzene	95-63-6	LCS	1100		1000	110	75 - 134		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	1050		1000	105	37 - 131		
1,2-Dibromoethane	106-93-4	LCS	1000		1000	100	69 - 130		
1,2-Dichlorobenzene	95-50-1	LCS	1030		1000	103	73 - 127		
1,2-Dichloroethane	107-06-2	LCS	938		1000	93.8	62 - 139		
1,2-Dichloroethene, Total	540-59-0	LCS	1910		2000	95.7	68 - 137		
1,2-Dichloropropane	78-87-5	LCS	984		1000	98.4	77 - 133		
1,3,5-Trimethylbenzene	108-67-8	LCS	1090		1000	109	74 - 137		
1,3-Dichlorobenzene	541-73-1	LCS	1030		1000	103	73 - 130		
1,4-Dichlorobenzene	106-46-7	LCS	1030		1000	103	74 - 127		
2-Butanone	78-93-3	LCS	4120		5000	82.4	51 - 151		
2-Hexanone	591-78-6	LCS	4840		5000	96.8	66 - 133		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	4600		5000	92.1	70 - 130		
Acetone	67-64-1	LCS	4710		5000	94.2	42 - 154		
Benzene	71-43-2	LCS	927		1000	92.7	77 - 134		
Bromochloromethane	74-97-5	LCS	995		1000	99.5	70 - 124		
Bromodichloromethane	75-27-4	LCS	1040		1000	104	73 - 133		
Bromoform	75-25-2	LCS	862		1000	86.2	62 - 118		
Bromomethane	74-83-9	LCS	831		1000	83.1	41 - 143		
Carbon Disulfide	75-15-0	LCS	732		1000	73.2	48 - 145		
Carbon Tetrachloride	56-23-5	LCS	829		1000	82.9	64 - 139		
Chlorobenzene	108-90-7	LCS	965		1000	96.5	76 - 130		
Chlorodibromomethane	124-48-1	LCS	998		1000	99.8	69 - 122		
Chloroethane	75-00-3	LCS	972		1000	97.2	14 - 152		
Chloroform	67-66-3	LCS	982		1000	98.2	75 - 127		
Chloromethane	74-87-3	LCS	1040		1000	104	31 - 167		
cis-1,2-Dichloroethene	156-59-2	LCS	980		1000	98	68 - 137		
cis-1,3-Dichloropropene	10061-01-5	LCS	975		1000	97.5	70 - 129		
Cyclohexane	110-82-7	LCS	915		1000	91.5	63 - 151		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/kg)	Orig. Result (ug/kg)	Spk Added (ug/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCS	1030		1000	103	10 - 180		
Ethylbenzene	100-41-4	LCS	975		1000	97.5	76 - 136		
Freon 113	76-13-1	LCS	822		1000	82.2	42 - 109		
Isopropylbenzene	98-82-8	LCS	1190		1000	119	72 - 137		
Methyl acetate	79-20-9	LCS	983		1000	98.3	70 - 130		
Methyl cyclohexane	108-87-2	LCS	928		1000	92.8	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	982		1000	98.2	65 - 120		
Methylene Chloride	75-09-2	LCS	902		1000	90.2	73 - 129		
mp-Xylene	108383/106423	LCS	1980		2000	98.8	75 - 137		
o-Xylene	95-47-6	LCS	987		1000	98.7	74 - 135		
Styrene	100-42-5	LCS	1090		1000	109	72 - 134		
Tetrachloroethene	127-18-4	LCS	975		1000	97.5	73 - 134		
Toluene	108-88-3	LCS	985		1000	98.5	73 - 134		
Total Xylenes	1330-20-7	LCS	2960		3000	98.7	75 - 136		
trans-1,2-Dichloroethene	156-60-5	LCS	935		1000	93.5	69 - 130		
trans-1,3-Dichloropropene	10061-02-6	LCS	876		1000	87.6	67 - 129		
Trichloroethene	79-01-6	LCS	908		1000	90.8	77 - 134		
Trichlorofluoromethane	75-69-4	LCS	1030		1000	103	27 - 121		
Vinyl Chloride	75-01-4	LCS	999		1000	99.9	5 - 200		

SURROGATES

Compound	CAS No		Result (ug/kg)	Expected (ug/kg)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	1490	1500	99.2	71 - 146	
4-Bromofluorobenzene	460-00-4	LCS	1450	1500	96.7	46 - 138	
Dibromofluoromethane	1868-53-7	LCS	1420	1500	94.5	42 - 143	
Toluene-d8	2037-26-5	LCS	1470	1500	98.3	54 - 141	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1338091	Prep Method	N/A
Date	N/A	Analysis Method	SW846 1030
Tech.			

Associated Samples

3389099003

Duplicate 3909243 (DUP) 3388303001 (non-Project Sample) For QC Batch 1338091

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Qualifiers
Ignitability	IGN	DUP	

Duplicate 3909244 (DUP) 3388367001 (non-Project Sample) For QC Batch 1338091

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Qualifiers
Ignitability	IGN	DUP	

QC Batch

QC Batch	1338213	Prep Method	N/A
Date	N/A	Analysis Method	S2540G-15
Tech.			

Associated Samples

3389099003

Duplicate 3909338 (DUP) 3383208001 (non-Project Sample) For QC Batch 1338213

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	97.7864	97.7935	RPD 0.0070 (Max-10)	
Total Solids	TSP	DUP	2.2135	2.2064	RPD 0.32 (Max-5)	

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3909339 (DUP) 3389070001 (non-Project Sample) For QC Batch 1338213

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)		Qualifiers
Moisture	MOISTURE	DUP	97.2997	97.5758	RPD 0.28 (Max-10)	
Total Solids	TSP	DUP	2.7002	2.4241	RPD 10.80* (Max-5)	

QC Batch

QC Batch	1338610	Prep Method	N/A
Date	N/A	Analysis Method	SW-846 1010B
Tech.			

Associated Samples

3389099004

Duplicate 3909510 (DUP) 3388414001 (non-Project Sample) For QC Batch 1338610

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (Deg. F)	Orig. Result (Deg. F)	Qualifiers
Flashpoint/Ignitability	FP-IGN	DUP			

Duplicate 3909511 (DUP) 3389053001 (non-Project Sample) For QC Batch 1338610

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (Deg. F)	Orig. Result (Deg. F)	Qualifiers
Flashpoint/Ignitability	FP-IGN	DUP			

FLASH POINT LCS 3909509 (FPLCS) Created on 11/23/2024 13:45 For QC Batch 1338610

RESULTS

Compound	CAS No		Result (Deg. F)	Orig. Result (Deg. F)	Spk Added (Deg. F)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Flashpoint/Ignitability	FP-IGN	LCS	81		81	100	97.5310 - 102.4690		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1342490	Prep Method	N/A
Date	N/A	Analysis Method	SW846 9095B
Tech.			

Associated Samples

3389099003 3389099004

Duplicate 3910321 (DUP) 3388844001 (non-Project Sample) For QC Batch 1342490

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Qualifiers
Free Liquids	FREELIQ	DUP	

QC Batch

QC Batch	1345889	Prep Method	SW-846 7.3CN
Date	11/27/2024 11:24	Analysis Method	SW-846 7.3CN
Tech.	KMV		

Associated Samples

3389099003 3389099004

Duplicate 3911043 (DUP) 3388844001 (non-Project Sample) For QC Batch 1345889

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)				Qualifiers
Cyanide, Reactive	CNREACT	DUP	0	0	RPD	0	(Max-20)	ND

Method Blank 3911041 (MB) Created on 11/27/2024 10:40 For QC Batch 1345889

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Cyanide, Reactive	CNREACT	BLK	ND	mg/kg	10.0	ND

Lab Control Standard 3911042 (LCS) Created on 11/27/2024 10:40 For QC Batch 1345889

RESULTS

Compound	CAS No	Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cyanide, Reactive	CNREACT	LCS	1.2		5	23.2	1 - 92		J

QC Batch

QC Batch	1345890	Prep Method	SW846 7.3
Date	11/27/2024 11:24	Analysis Method	SW846 7.3
Tech.	KMV		

Associated Samples

3389099003 3389099004

Duplicate 3911046 (DUP) 3388844001 (non-Project Sample) For QC Batch 1345890

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)		Qualifiers
Sulfide, Reactive	SO2REACT	DUP	5.1974	6.0120	RPD 14.50 (Max-20)	J

Method Blank 3911044 (MB) Created on 11/27/2024 10:40 For QC Batch 1345890

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Sulfide, Reactive	SO2REACT	BLK	5.6J	mg/kg	6.3	J

Lab Control Standard 3911045 (LCS) Created on 11/27/2024 10:40 For QC Batch 1345890

RESULTS

Compound	CAS No		Result (mg/kg)	Orig. Result (mg/kg)	Spk Added (mg/kg)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfide, Reactive	SO2REACT	LCS	362		285	127	49 - 148		

QC Batch

QC Batch	1345959	Prep Method	N/A
Date	N/A	Analysis Method	S2540G-15
Tech.			

Associated Samples

3389099003

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Duplicate 3911287 (DUP) 3389371001 (non-Project Sample) For QC Batch 1345959

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (%)	Orig. Result (%)			Qualifiers
Solids, Total Volatile	VTS_S	DUP	81.1370	81.2610	RPD	0.15 (Max-5)	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3389099003	IDW-S	N/A	N/A	N/A		SW846 9095B	1342490
		SW846 3015A	1340188	11/26/2024 01:38	ANN	SW846 6010C	1342391
		SW846 7470A	1348915	12/02/2024 10:06	AXW	SW846 7470A	1349008
		SW846 3546	1339884	11/26/2024 13:45	GED	SW846 8082A	1344901
		SW846 3546	1338201	11/24/2024 19:55	J1H	SW846 8270E	1339795
		SW846 3510C	1345189	11/26/2024 22:00	J1H	SW846 8270E	1345947
		SW846 3546	1338201	11/24/2024 19:55	J1H	SW846 8270E	1345964
		N/A	N/A	N/A		SW846 8260D	1348205
		SW846 5035A	1350876	11/21/2024 16:45	JTH	SW846 8260D	1350878
		N/A	N/A	N/A		S2540G-15	1338213
		N/A	N/A	N/A		S2540G-15	1345959
		N/A	N/A	N/A		S2710F-09	1341889
		N/A	N/A	N/A		SW846 1030	1338091
		SW846 7.3	1345890	11/27/2024 11:24	KMV	SW846 7.3	1345953
		SW-846 7.3CN	1345889	11/27/2024 11:24	KMV	SW-846 7.3CN	1347489
		N/A	N/A	N/A		SW846 9045D	1343189
3389099004	IDW-W	N/A	N/A	N/A		SW846 9095B	1342490
		SW846 3015A	1340185	11/28/2024 01:45	ANN	SW846 6010C	1351152
		SW846 3015A	1340185	11/28/2024 01:45	ANN	SW846 6010C	1351313
		SW846 7470A	1348909	12/02/2024 10:06	AXW	SW846 7470A	1349007
		SW846 3511	1344598	11/26/2024 19:55	BMP	SW846 8082A	1344902
		SW846 3510C	1345189	11/26/2024 22:00	J1H	SW846 8270E	1345947
		SW846 3510C	1345189	11/26/2024 22:00	J1H	SW846 8270E	1347094
		N/A	N/A	N/A		SW846 8260D	1345806
		N/A	N/A	N/A		SW846 8260D	1348188
		N/A	N/A	N/A		SW-846 1010B	1338610
		SW846 7.3	1345890	11/27/2024 11:24	KMV	SW846 7.3	1345953
		SW-846 7.3CN	1345889	11/27/2024 11:24	KMV	SW-846 7.3CN	1347489
		N/A	N/A	N/A		SW846 9040C	1345940

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3391171 Logged By: CXW PM: EXP

ALS Quote #

1 of

Client Name: Michael Baker Intl.

Address: 100 Airside Drive Moon Twp, PA

Contact: C. Kupfer

Phone#: 412-269-6300

Project Name/#: Erie Coke Works

Bill To:

Purchase Order #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

Temp Taken By: MJE Therm ID: 569 WO Temp (°C) S:3 W:2

Receipt Info corr Y N NA

Cooler Custo Temp By: MJE WO Temp (°C) S:3 W:2 Therm ID 569 s? NO YES

Sample Custo ES, list below

Received on I

Coolers & Sa

Correct Conta

Sample Label

Adequate Sa

VOA only: Tri

NJ ≤ 4 days'

Courier/Trackin

Receipt Info Completed By: MJE
Cooler Custody Seal Intact Y N (NA)
Sample Custody Seal Intact Y N (NA)
Received on Ice (Y) N NA
Cooler & Samples Intact (Y) N
Correct Containers Provided (Y) N
Sample Label/COC Agree (Y) N
Adequate Sample Volumes (Y) N
CR6 Samples Filtered Y N (NA)
OP Samples Filtered Y N (NA)
VOA Trip Blank (Y) N NA
NJ≤ 4 Days? Y (N)
Rad Screen (uCi) —
Courier/Tracking #: 282113301507
SDWA Compliance Y (N)
PWSID
WV Containers 0-6°C Y N (NA)
PWS Contact: *No Sampler-MJE 11/22/24

nt contact:

Sample(s) for uCi)

Reportable SI Y N

SDWA State ontact:

PWSID #

PWS Contact: PWS Phone #:

	Container Type	TCK	G	G	G	G	P	G			
	Container Size	3 40 ml	8 oz	16 oz	500 ml	3 40 ml	125 ml	1L			
	Preservative	meoh + DI	UN	UN MJE 11/22/24	UN	HCl	H_2SO_4	UN	MJE 11/22/24		

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260D	SVOCs 8270E	Total metals + Hg 6010D/7471B	SVOC/MET/ TCLP TVSI SGRA PCBs	RIC/PF	PCBs				
1	MW-45-10	11/21/24	1350		G	S	X	X	X		MJE 11/22/24					
2	TB-7	—	—		—	—	X									
3	IDW-S	11/2/24	1645		G	S	X			X	X					
4	IDW-W	↓	1700		G	GW	X	X	X			X	X			
5																
6																
7																
8																
9																
10																

Enter Number of Containers Per Sample or Field Results Below.

SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Sample/COC Remarks

Sample MW-45-10 is considered "Hot"

IDW-W-Limited Volume

Contains Short Hold Testing YES NO

Internal Use: If less than 48 hours - notify lab upon receipt

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
11/21/24	1800	1	Dave Gavinski / MBI	2	Fedex
11/22/24	907	3	Fedex	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] ____

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

Sample Disposal: [ ] Lab [ ] Special

EDDS: Format Type

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL [ ] other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

282113301507

ATTACHMENT F

Waste Disposal Manifests

Please print or type. 482462

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
PAD077478954	1	724-457-8910	027274720 JJK

GENERATOR

5. Generator's Name and Mailing Address: ATTN: CHRIS SABER
PADEP
230 CHESTNUT STREET MEADVILLE PA 16335
Generator's Phone: (330856-8864

Generator's Site Address (if different than mailing address):
FORMER ERIE COKE
925 E BAY DR.
ERIE PA 16507

6. Transporter 1 Company Name: PENN OHIO CORPORATION
U.S. EPA ID Number: OHR000028627

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
ROSS INCINERATION SERVICES INC
36790 GILES ROAD GRAFTON OH 44044
Facility's Phone: (440)748-5800
U.S. EPA ID Number: OHD048415665

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	NA3077, Waste, Hazardous waste, solid, n.o.s. (BENZENE), 9, PGIII, RQ	2	DM	1,000	P	D018		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. 0156292 MID: 65878H

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

X Generator's/Offeror's Printed/Typed Name: Christopher Saber PADEP
Signature: Chris Saber
Month 12 Day 30 Year 24

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: James D Lewis
Signature:
Month 12 Day 30 Year 24

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Denise Kershaw
Signature: Denise Kershaw
Month 01 Day 06 Year 25

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PRO
TRANSFER & RECOVERY CENTER
850 East 19th Street • Erie, PA 16503-2147
Office: (814) 835-2739
Fax: (814) 616-6965
Email: protransferstation@gmail.com
www.protransferstation.com

Ticket # 3084342

Customer Name: Pro Waste Services Inc
Address: 813 E 18th Street
City: Erie State: PA Zip: 16503

Date: 12/30/2024

Vehicle # 442
Trailer #
Container # 10011
License #

Operator: Chris Gould #96408 _____
Time In: 11:16 AM
Time Out: 11:28 AM

None
Profile #
Manifest #
Waste ID #

County: Erie
Origin: City of Erie
State: Pennsylvania
Job #

Destination

Vehicle Weight

Gross: 20080 lb
Net: 740 lb

Tare: 19340 lb
Tons: 0.37 tn

Items:
MSW (PRO ONLY)

Origin: City of Erie

Origin% 100

0.37 tn

Total Charge: $0.00
Payment Type: No Charge

Signature: _____

RECEIVED

FEB 0 5 2025

Environmental Protection
Northwest Regional Office

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number
			440-992-7906	123024

5. Generator's Name and Mailing Address

PADEP Former Erie Coke
230 Chestnut Street
Meadville PA 16335

Generator's Phone:

Generator's Site Address (if different than mailing address)

PADEP Former Erie Coke Plant
925 E. Bay Drive
Erie PA 16507

6. Transporter 1 Company Name — U.S. EPA ID Number

The PennOhio Corporation — OHR000028837

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

The PennOhio Corporation
4813 Woodman Avenue
Ashtabula OH 44004

Facility's Phone: 440 992-7906

OHR000028837

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Liquid - Purge Water	0002	DM	0240	G	NONE
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

1) 230126-01

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Christopher Saba PADEP — Signature — Month 12 Day 30 Year 24

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: James O Lewis — Signature — Month 12 Day 30 Year 24

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Debbie Johnson — Signature — Month 12 Day 30 Year 24

DESIGNATED FACILITY TO GENERATOR

169-BLC-O 5 11977 (Rev. 9/09)

ATTACHMENT G

Photographic Record

OBG | Baker – PHOTOGRAPHIC RECORD

SITE NAME: Erie Coke Site **Erie County, PA**

PHOTOGRAPH **1**	
DATE **November 2024**	
PHOTOGRAPHS BY **OBG | Baker**	

Comments: Decontamination procedures between borings.

PHOTOGRAPH **2**	
DATE **November 2024**	
PHOTOGRAPHS BY **OBG | Baker**	

Comments: Test boring activities in the Lampe Marina parking lot near the Erie Coke fencing.

OBG | Baker – PHOTOGRAPHIC RECORD

SITE NAME: Erie Coke Site **Erie County, PA**

PHOTOGRAPH **3**	
DATE **November 2024**	
PHOTOGRAPHS BY **OBG | Baker**	

Comments: Test boring activities in the Lampe Marina parking lot.

PHOTOGRAPH **4**	
DATE **November 2024**	
PHOTOGRAPHS BY **OBG | Baker**	

Comments: Soil collection and classification during drilling activities in Lampe Marina parking lot.

OBG | Baker – PHOTOGRAPHIC RECORD

SITE NAME: Erie Coke Site **Erie County, PA**

PHOTOGRAPH **5**	
DATE **November 2024**	
PHOTOGRAPHS BY **OBG | Baker**	

Comments: Well installation activities in the Lampe Marina parking lot.

PHOTOGRAPH **6**	
DATE **November 2024**	
PHOTOGRAPHS BY **OBG | Baker**	

Comments: Installation of sand pack during well installation in the Lampe Marina parking lot.

OBG | Baker – PHOTOGRAPHIC RECORD

SITE NAME: Erie Coke Site **Erie County, PA**

PHOTOGRAPH

7

DATE

November 2024

PHOTOGRAPHS BY

OBG | Baker

Comments: Monitoring well development activities in the Lampe Marina parking lot.

PHOTOGRAPH

8

DATE

November 2024

PHOTOGRAPHS BY

OBG | Baker

Comments: Retrieved soil cores from MW-39 installation activities.

OBG | Baker – PHOTOGRAPHIC RECORD

SITE NAME: Erie Coke Site **Erie County, PA**

PHOTOGRAPH **9**	
DATE **November 2024**	
PHOTOGRAPHS BY **OBG | Baker**	

Comments: Retrieved soil cores from MW-40 installation activities.

PHOTOGRAPH **10**	
DATE **November 2024**	
PHOTOGRAPHS BY **OBG | Baker**	

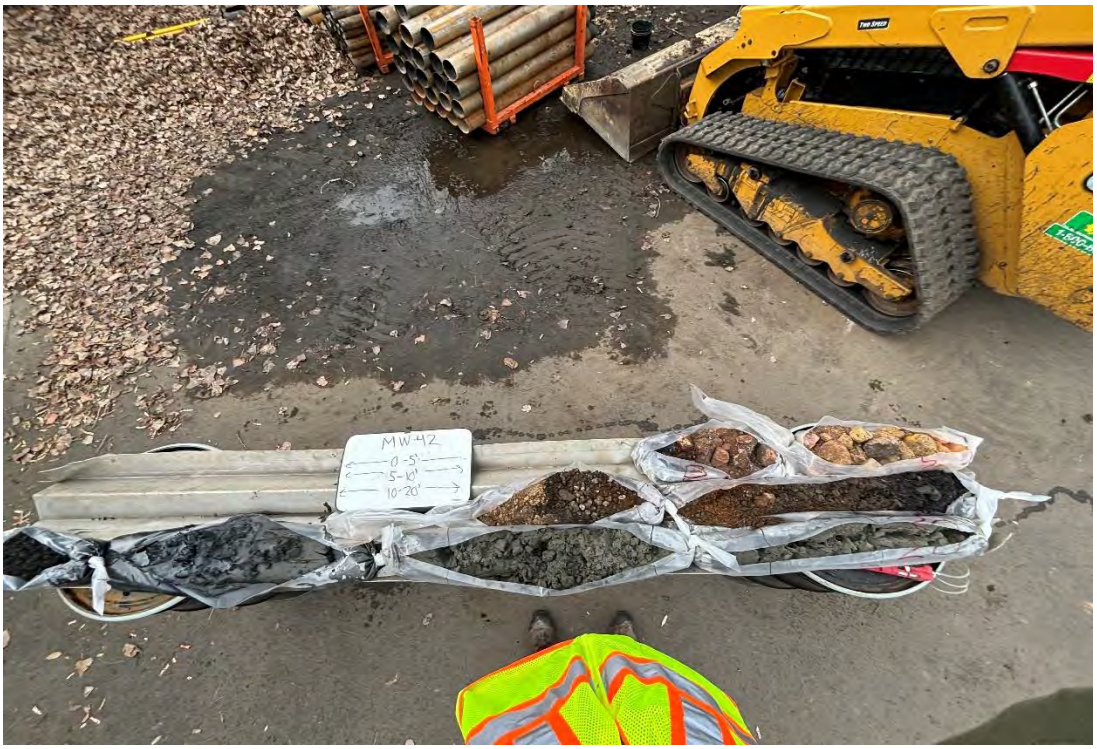
Comments: Retrieved soil cores from MW-41 installation activities.

OBG | Baker – PHOTOGRAPHIC RECORD

SITE NAME: Erie Coke Site **Erie County, PA**

PHOTOGRAPH

11



DATE

November 2024

PHOTOGRAPHS BY

OBG | Baker

Comments: Retrieved soil cores from MW-42 installation activities.

PHOTOGRAPH

12

DATE

November 2024

PHOTOGRAPHS BY

OBG | Baker

Comments: Retrieved soil cores from MW-43 installation activities.

OBG | Baker – PHOTOGRAPHIC RECORD

SITE NAME: Erie Coke Site **Erie County, PA**

PHOTOGRAPH **13**	
DATE **November 2024**	
PHOTOGRAPHS BY **OBG | Baker**	

Comments: Retrieved soil cores from MW-44 installation activities.

PHOTOGRAPH **14**	
DATE **November 2024**	
PHOTOGRAPHS BY **OBG | Baker**	

Comments: Retrieved soil cores from MW-45 installation activities.

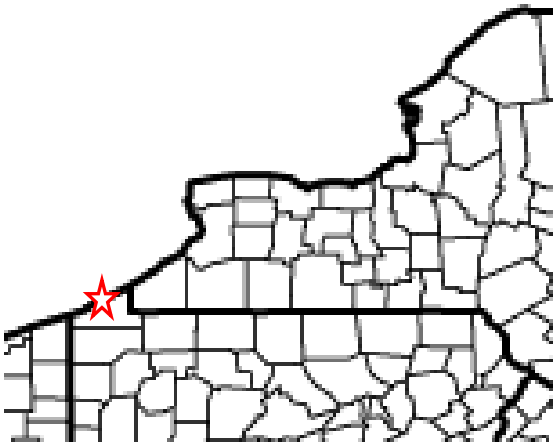
ATTACHMENT H

Army Corp. Erie Harbor CDF Fact Sheet

US Army Corps of Engineers ®

Great Lakes Navigation System

Erie Harbor, PA – Erie Harbor Confined Disposal Facility (Erie Harbor CDF)



Project Description

- Navigation Projects Served: Erie Harbor, PA.
- The facility is owned the Erie-Western Pennsylvania Port Authority.
- The facility is operated and maintained by the Buffalo District, U.S. Army Corps of Engineers
- Erie Harbor CDF is an in-lake facility attached to land in Erie, PA. The CDF is located on the south side of a bay formed by Presque Isle Peninsula.
- Erie Harbor CDF has an area of 23 acres and a total capacity of 420,000 cubic yards. Dredging quantities have historically amounted to approximately 100,000 cubic yards per dredging event, which occurs infrequently. However, only a limited amount of dredged material has been placed into the CDF over the years, with most of the dredged material placed in open lake. The CDF has less than 5 years of capacity remaining.
- In 2003, 8.3 acres of the CDF that had been completely filled was transferred to the Erie-Western Pennsylvania Port Authority (EWPPA) for operation and maintenance. The purpose of the transfer was to allow EWPPA to construct a public recreational campground and park on that portion of the CDF.
- Non-Federal interests may use this disposal facility if it is determined that the capacity to be used by the non-Federal interest will not reduce the availability of the disposal facility for Federal navigation project purposes, that the material is environmentally acceptable, and after payment of a tipping fee.

Project Authority

- The facility was constructed in 1979 under the authority of Section 123 of the River and Harbor Act of 1970, Public Law 91-611, as amended.

Beneficial Use Information

- Direct transportation access to the CDF is available via road and water.
- For more information about beneficial use opportunities, please contact the Corps of Engineers using the contact information at the bottom of this fact sheet.

Congressional Interest

- Representative Mike Kelly R-PA-16
- Senator John Fetterman D-PA
- Senator Robert P. Casey D-PA

U.S. ARMY CORPS OF ENGINEERS - BUFFALO DISTRICT
1776 Niagara Street, Buffalo, NY 14207
http://www.lrb.usace.army.mil
Contact: 716-879-4410, public.affairs@lrb01.usace.army.mil
Last Updated: 26-Jul-2023